Remedial Investigation/Feasibility Study Work Plan

Volume II of II

Orion Power Holdings, Inc.
(Former Niagara Mohawk Power Corporation)
School Street Hydroelectric Station
Cohoes, New York

June 2000

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

6723 Towpath Road, P.O. Box 66
Syracuse, New York, 13214-0066
(315) 446-9120

Phase II ESA Analytical Results

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

SDG - 980810X

Samples collected 8/10/98

SCILAB
FULL SERVICE ENVIRONMENTAL LABORATORIES

SCILAB ALBANY, INC.
15 Century Hill Drive
P.O. Box 787
Latham, NY 12110
Tel: (518) 786-8100
Fax: (518) 786-7700

FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 15:40
Sampled By : NEUMANN
Sample Id: SCH-SB3(0-3.2)
Location : NMPC SCHOOL ST

Sample No: 980810X 07
Date Received: 08/10/98
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	91.0		%	MJW 8/10/98
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	190	180	MCG/KG	GCMSB:135 8/12/98
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	190	180	MCG/KG	GCMSB:135 8/12/98
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	180	180	MCG/KG	GCMSB:135 8/12/98
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/12/98
B/N EXTRACTION	SW-846 METHOD 3500A	COMPLETED			MJW 8/11/98
EXTRACTION FOR PCBS	SW-846 METHOD 8080	COMPLETED			ACK 8/11/98
PCB1016	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/12/98
PCB1221	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/12/98
PCB1232	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/12/98
PCB1242	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/12/98
PCB1248	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/12/98
PCB1254	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/12/98
PCB1260	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/12/98
CHLOROMETHANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
VINYL CHLORIDE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
BROMOMETHANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
CHLOROETHANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
TRICHLOROFLUOROMETHANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
1,1-DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
ACETONE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98

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REMARKS:

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Fax: (518) 786-7700

FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 15:40
Sampled By : NEUMANN
Sample Id: SCH-SB3(0-3.2)
Location : NMPC SCHOOL ST

Sample No: 980810X 07
Date Received: 08/10/98
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference

(CONTINUED FROM PREVIOUS PAGE)

CARBON DISULFIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
IODOMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
METHYLENE CHLORIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
ACRYLONITRILE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
TRANS-1,2 DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1-DICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
VINYL ACETATE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
2-BUTANONE (MEK)	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
CIS-1,2-DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
CHLOROFORM	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BROMOCHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
CARBON TETRACHLORIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TRICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DICHLOROPROPANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
DIBROMOMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BROMODICHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
4-METHYL-2-PENTANONE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TOLUENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TETRACHLOROETHENE	SW-846 METHOD 8260	7	5	MCG/KG	GCMSCF:118 8/13/98
2-HEXANONE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
DIBROMOCHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DIBROMOETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
CHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
ETHYLBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98

(CONTINUES ON NEXT PAGE)

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Date Received: 08/10/98
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
1,1,1,2-TETRACHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TOTAL XYLENES	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
STYRENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BROMOFORM	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2,3-TRICHLOROPROPANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TRANS-1,4-DICHLORO-2-BUTENE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
1,4-DICHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DICHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DIBROMO-3-CHLOROPROPANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/13/98
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			GCMSCF:118 8/13/98

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 13:05
Sampled By : NEUMANN
Sample Id: SCH-SB4(0-4)
Location : NMPC SCHOOL ST

Sample No: 980810X 06
Date Received: 08/10/98
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	85.8		%	MJW 8/10/98
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	190	MCG/KG	GCMSB:137 8/13/98
B/N EXTRACTION	SW-846 METHOD 3500A	COMPLETED			MJW 8/11/98
EXTRACTION FOR PCBS	SW-846 METHOD 8080	COMPLETED			ACK 8/11/98
PCB1016	SW-846 METHOD 8080	ND	600	MCG/KG	GC3J:58 8/12/98
PCB1221	SW-846 METHOD 8080	ND	600	MCG/KG	GC3J:58 8/12/98
PCB1232	SW-846 METHOD 8080	ND	600	MCG/KG	GC3J:58 8/12/98
PCB1242	SW-846 METHOD 8080	ND	600	MCG/KG	GC3J:58 8/12/98
PCB1248	SW-846 METHOD 8080	ND	600	MCG/KG	GC3J:58 8/12/98
PCB1254	SW-846 METHOD 8080	ND	600	MCG/KG	GC3J:58 8/12/98
PCB1260	SW-846 METHOD 8080	ND	600	MCG/KG	GC3J:58 8/12/98
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-30:2 8/11/98
ACID DIGESTION - FURNACE	SW-846 METHOD 3050	COMPLETED			D-30:4 8/13/98
ALUMINUM	ICP, SW-846 METHOD 6010	8,360	5.3	MG/KG	F-7:386 8/11/98
ANTIMONY	ICP, SW-846 METHOD 6010	ND	6.4	MG/KG	F-7:386 8/11/98
ARSENIC	ICP, SW-846 METHOD 6010	5.4	1.1	MG/KG	F-7:386 8/11/98
BARIUM	ICP, SW-846 METHOD 6010	68.8	5.3	MG/KG	F-7:386 8/11/98
BERYLLIUM	ICP, SW-846 METHOD 6010	0.59	0.53	MG/KG	F-7:386 8/11/98

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REMARKS:

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FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

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Date Sampled: 08/10/98 Time: 13:05
Sampled By : NEUMANN
Sample Id: SCH-SB4(0-4)
Location : NMPC SCHOOL ST

Sample No: 980810X 06
Date Received: 08/10/98
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
CADMIUM	ICP, SW-846 METHOD 6010	3.6	0.53	MG/KG	F-7:386 8/11/98
CALCIUM	ICP, SW-846 METHOD 6010	6,860	106	MG/KG	F-7:386 8/11/98
CHROMIUM	ICP, SW-846 METHOD 6010	12.7	1.1	MG/KG	F-7:386 8/11/98
COBALT	ICP, SW-846 METHOD 6010	9.4	5.3	MG/KG	F-7:386 8/11/98
COPPER	ICP, SW-846 METHOD 6010	26.9	2.2	MG/KG	F-7:386 8/11/98
IRON	ICP, SW-846 METHOD 6010	30,700	60	MG/KG	F-7:390 8/13/98
LEAD	ICP, SW-846 METHOD 6010	78.1	1.1	MG/KG	F-7:386 8/11/98
MAGNESIUM	ICP, SW-846 METHOD 6010	3,890	105	MG/KG	F-7:386 8/11/98
MANGANESE	ICP, SW-846 METHOD 6010	525	1.1	MG/KG	F-7:386 8/11/98
MERCURY PREPARATION - SOLID	SW-846 METHOD 7471	COMPLETED			D-30:4 8/12/98
MERCURY	SW-846 METHOD 7471	0.2	0.1	MG/KG	E-6:32 8/13/98
NICKEL	ICP, SW-846 METHOD 6010	15.7	3.2	MG/KG	F-7:386 8/11/98
POTASSIUM	SW-846 METHOD 7610	570	50	MG/KG	A081498
SELENIUM	SW-846 METHOD 7740	ND	0.95	MG/KG	C-12:390 8/14/98
SILVER	ICP, SW-846 METHOD 6010	ND	1.1	MG/KG	F-7:386 8/11/98
SODIUM	SW-846 METHOD 7770	190	50	MG/KG	A081498
THALLIUM	SW-846 METHOD 7841	ND	0.95	MG/KG	C-12:391 8/14/98
VANADIUM	ICP, SW-846 METHOD 6010	17.5	5.3	MG/KG	F-7:386 8/11/98
ZINC	ICP, SW-846 METHOD 6010	356	2.1	MG/KG	F-7:386 8/11/98

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 12:20
Sampled By : NEUMANN
Sample Id: SCH-SB5(0-4)
Location : NMPC SCHOOL ST

Sample No: 980810X 05
Date Received: 08/10/98
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	90.1		%	MJW 8/10/98
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
B/N EXTRACTION	SW-846 METHOD 3500A	COMPLETED			MJW 8/10/98
EXTRACTION FOR PCBS	SW-846 METHOD 8080	COMPLETED			ACK 8/11/98
PCB1016	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1221	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1232	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1242	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1248	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1254	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1260	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-30:2 8/11/98
ACID DIGESTION - FURNACE	SW-846 METHOD 3050	COMPLETED			D-30:4 8/13/98
ALUMINUM	ICP, SW-846 METHOD 6010	8,540	5.4	MG/KG	F-7:386 8/11/98
ANTIMONY	ICP, SW-846 METHOD 6010	ND	6.5	MG/KG	F-7:386 8/11/98
ARSENIC	ICP, SW-846 METHOD 6010	1.2	1.1	MG/KG	F-7:386 8/11/98
BARIUM	ICP, SW-846 METHOD 6010	67.1	5.4	MG/KG	F-7:386 8/11/98
BERYLLIUM	ICP, SW-846 METHOD 6010	0.61	0.54	MG/KG	F-7:386 8/11/98

(CONTINUES ON NEXT PAGE)

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Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
CADMIUM	ICP, SW-846 METHOD 6010	2.5	0.54	MG/KG	F-7:386 8/11/98
CALCIUM	ICP, SW-846 METHOD 6010	9,340	109	MG/KG	F-7:386 8/11/98
CHROMIUM	ICP, SW-846 METHOD 6010	12.8	1.1	MG/KG	F-7:386 8/11/98
COBALT	ICP, SW-846 METHOD 6010	8.0	5.4	MG/KG	F-7:386 8/11/98
COPPER	ICP, SW-846 METHOD 6010	43.4	2.2	MG/KG	F-7:386 8/11/98
IRON	ICP, SW-846 METHOD 6010	24,600	60	MG/KG	F-7:390 8/13/98
LEAD	ICP, SW-846 METHOD 6010	16.8	1.1	MG/KG	F-7:386 8/11/98
MAGNESIUM	ICP, SW-846 METHOD 6010	4,520	109	MG/KG	F-7:386 8/11/98
MANGANESE	ICP, SW-846 METHOD 6010	509	1.1	MG/KG	F-7:386 8/11/98
MERCURY PREPARATION - SOLID	SW-846 METHOD 7471	COMPLETED			D-30:4 8/12/98
MERCURY	SW-846 METHOD 7471	ND	0.1	MG/KG	E-6:32 8/13/98
NICKEL	ICP, SW-846 METHOD 6010	15.2	3.3	MG/KG	F-7:386 8/11/98
POTASSIUM	SW-846 METHOD 7610	590	50	MG/KG	A081498
SELENIUM	SW-846 METHOD 7740	ND	1.1	MG/KG	C-12:390 8/14/98
SILVER	ICP, SW-846 METHOD 6010	ND	1.1	MG/KG	F-7:386 8/11/98
SODIUM	SW-846 METHOD 7770	150	50	MG/KG	A081498
THALLIUM	SW-846 METHOD 7841	ND	1.1	MG/KG	C-12:391 8/14/98
VANADIUM	ICP, SW-846 METHOD 6010	17.2	5.4	MG/KG	F-7:386 8/11/98
ZINC	ICP, SW-846 METHOD 6010	57.0	2.2	MG/KG	F-7:386 8/11/98

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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Fax: (518) 786-7700

FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 10:10
Sampled By : NEUMANN
Sample Id: SCH-SB6(3)
Location : NMPC SCHOOL ST

Sample No: 980810X 01
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	94.4		%	MJW 8/10/98
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
B/N EXTRACTION	SW-846 METHOD 3500A	COMPLETED			MJW 8/10/98
EXTRACTION FOR PCBS	SW-846 METHOD 8080	COMPLETED			ACK 8/11/98
PCB1016	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1221	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1232	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1242	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1248	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1254	SW-846 METHOD 8080	5,000	500	MCG/KG	GC3J:58 8/11/98
PCB1260	SW-846 METHOD 8080	37,000	5,100	MCG/KG	GC3J:59 8/12/98
CHLOROMETHANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98
VINYL CHLORIDE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98
BROMOMETHANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98
CHLOROETHANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98
TRICHLOROFLUOROMETHANE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98
1,1-DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/12/98
ACETONE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98

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REMARKS:

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Fax: (518) 786-7700

FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 10:10
Sampled By : NEUMANN
Sample Id: SCH-SB6(3)
Location : NMPC SCHOOL ST

Sample No: 980810X 01
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
CARBON DISULFIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/12/98
IODOMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/12/98
METHYLENE CHLORIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/12/98
ACRYLONITRILE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98
TRANS-1,2 DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/12/98
1,1-DICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/12/98
VINYL ACETATE	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98
2-BUTANONE (MEK)	SW-846 METHOD 8260	ND	11	MCG/KG	GCMSCF:118 8/12/98
CIS-1,2-DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/12/98
CHLOROFORM	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
BROMOCHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
CARBON TETRACHLORIDE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
BENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,2-DICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
TRICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,2-DICHLOROPROPANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
DIBROMOMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
BROMODICHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
4-METHYL-2-PENTANONE	SW-846 METHOD 8260	ND	11	MCG/KG	FCMSCF:118 8/12/98
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
TOLUENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
TETRACHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
2-HEXANONE	SW-846 METHOD 8260	ND	11	MCG/KG	FCMSCF:118 8/12/98
DIBROMOCHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,2-DIBROMOETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
CHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
ETHYLBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98

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Fax: (518) 786-7700

FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 10:10
Sampled By : NEUMANN
Sample Id: SCH-SB6(3)
Location : NMPC SCHOOL ST

Sample No: 980810X 01
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
1,1,1,2-TETRACHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
TOTAL XYLENES	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
STYRENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
BROMOFORM	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,2,3-TRICHLOROPROPANE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
TRANS-1,4-DICHLORO-2-BUTENE	SW-846 METHOD 8260	ND	11	MCG/KG	FCMSCF:118 8/12/98
1,4-DICHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,2-DICHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	FCMSCF:118 8/12/98
1,2-DIBROMO-3-CHLOROPROPANE	SW-846 METHOD 8260	ND	11	MCG/KG	FCMSCF:118 8/12/98
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			GCMSCF:118 8/12/98

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 11:55
Sampled By : NEUMANN
Sample Id: SCH-SB9(4-8)
Location : NMPC SCHOOL ST

Sample No: 980810X 04
Date Received: 08/10/98
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	88.7		%	MJW 8/10/98
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	180	MCG/KG	GCMSB:135 8/11/98
B/N EXTRACTION	SW-846 METHOD 3500A	COMPLETED			MJW 8/10/98
EXTRACTION FOR PCBS	SW-846 METHOD 8080	COMPLETED			ACK 8/11/98
PCB1016	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1221	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1232	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1242	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1248	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1254	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1260	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
ACID DIGESTION - FLAME/ICP	SW-846 METHOD 3050	COMPLETED			D-30:2 8/11/98
ACID DIGESTION - FURNACE	SW-846 METHOD 3050	COMPLETED			D-30:4 8/13/98
ALUMINUM	ICP, SW-846 METHOD 6010	11,200	5.3	MG/KG	F-7:386 8/11/98
ANTIMONY	ICP, SW-846 METHOD 6010	ND	6.4	MG/KG	F-7:386 8/11/98
ARSENIC	ICP, SW-846 METHOD 6010	1.2	1.1	MG/KG	F-7:386 8/11/98
BARIUM	ICP, SW-846 METHOD 6010	83.0	5.3	MG/KG	F-7:386 8/11/98
BERYLLIUM	ICP, SW-846 METHOD 6010	0.56	0.53	MG/KG	F-7:386 8/11/98

(CONTINUES ON NEXT PAGE)

REMARKS:

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Fax: (518) 786-7700

FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 11:55
Sampled By : NEUMANN
Sample Id: SCH-SB9(4-8)
Location : NMPC SCHOOL ST

Sample No: 980810X 04
Date Received: 08/10/98
Collection Method: COMPOSITE
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
CADMIUM	ICP, SW-846 METHOD 6010	3.3	0.53	MG/KG	F-7:386 8/11/98
CALCIUM	ICP, SW-846 METHOD 6010	15,800	106	MG/KG	F-7:386 8/11/98
CHROMIUM	ICP, SW-846 METHOD 6010	17.2	1.1	MG/KG	F-7:386 8/11/98
COBALT	ICP, SW-846 METHOD 6010	14.9	3.3	MG/KG	F-7:386 8/11/98
COPPER	ICP, SW-846 METHOD 6010	44.5	2.2	MG/KG	F-7:386 8/11/98
IRON	ICP, SW-846 METHOD 6010	32,800	60	MG/KG	F-7:390 8/13/98
LEAD	ICP, SW-846 METHOD 6010	15.3	1.1	MG/KG	F-7:386 8/11/98
MAGNESIUM	ICP, SW-846 METHOD 6010	12,800	106	MG/KG	F-7:386 8/11/98
MANGANESE	ICP, SW-846 METHOD 6010	1,300	1.1	MG/KG	F-7:390 8/13/98
MERCURY PREPARATION - SOLID	SW-846 METHOD 7471	COMPLETED			D-30:4 8/12/98
MERCURY	SW-846 METHOD 7471	ND	0.1	MG/KG	E-6:32 8/13/98
NICKEL	ICP, SW-846 METHOD 6010	24.6	3.2	MG/KG	F-7:386 8/11/98
POTASSIUM	SW-846 METHOD 7610	550	50	MG/KG	A081498
SELENIUM	SW-846 METHOD 7740	ND	1.1	MG/KG	C-12:390 8/14/98
SILVER	ICP, SW-846 METHOD 6010	ND	1.1	MG/KG	F-7:386 8/11/98
SODIUM	SW-846 METHOD 7770	150	50	MG/KG	A081498
THALLIUM	SW-846 METHOD 7841	ND	1.1	MG/KG	C-12:391 8/14/98
VANADIUM	ICP, SW-846 METHOD 6010	18.4	5.3	MG/KG	F-7:386 8/11/98
ZINC	ICP, SW-846 METHOD 6010	78.5	2.2	MG/KG	F-7:386 8/11/98

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 10:30
Sampled By : NEUMANN
Sample Id: SCH-TP1(3)
Location : NMPC SCHOOL ST

Sample No: 980810X 02
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.7		%	MJW 8/10/98
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
B/N EXTRACTION	SW-846 METHOD 3500A	COMPLETED			MJW 8/10/98
EXTRACTION FOR PCBS	SW-846 METHOD 8080	COMPLETED			ACK 8/11/98
PCB1016	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1221	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1232	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1242	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1248	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1254	SW-846 METHOD 8080	3,900	500	MCG/KG	GC3J:58 8/11/98
PCB1260	SW-846 METHOD 8080	25,000	5,100	MCG/KG	GC3J:59 8/12/98
CHLOROMETHANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
VINYL CHLORIDE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
BROMOMETHANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
CHLOROETHANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
TRICHLOROFLUOROMETHANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
1,1-DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
ACETONE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98

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Fax: (518) 786-7700

FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 10:30
Sampled By : NEUMANN
Sample Id: SCH-TP1(3)
Location : NMPC SCHOOL ST

Sample No: 980810X 02
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
CARBON DISULFIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
IODOMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
METHYLENE CHLORIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
ACRYLONITRILE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
TRANS-1,2 DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1-DICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
VINYL ACETATE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
2-BUTANONE (MEK)	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
CIS-1,2-DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
CHLOROFORM	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BROMOCHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
CARBON TETRACHLORIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TRICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DICHLOROPROPANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
DIBROMOMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BROMODICHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
4-METHYL-2-PENTANONE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TOLUENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TETRACHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
2-HEXANONE	SW-846 METHOD 8260	ND	10	MCG/KG	CGMSCF:118 8/13/98
DIBROMOCHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
1,2-DIBROMOETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
CHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
ETHYLBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98

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Fax: (518) 786-7700

FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 10:30
Sampled By : NEUMANN
Sample Id: SCH-TP1(3)
Location : NMPC SCHOOL ST

Sample No: 980810X 02
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
1,1,1,2-TETRACHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
TOTAL XYLENES	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
STYRENE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
BROMOFORM	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
1,2,3-TRICHLOROPROPANE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
TRANS-1,4-DICHLORO-2-BUTENE	SW-846 METHOD 8260	ND	10	MCG/KG	CGMSCF:118 8/13/98
1,4-DICHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
1,2-DICHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	CGMSCF:118 8/13/98
1,2-DIBROMO-3-CHLOROPROPANE	SW-846 METHOD 8260	ND	10	MCG/KG	CGMSCF:118 8/13/98
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			GCMSCF:118 8/13/98

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

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FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 11:00
Sampled By : NEUMANN
Sample Id: SCH-TP2 (1.8)
Location : NMPC SCHOOL ST

Sample No: 980810X 03
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
% SOLIDS	CLP SOW 4/89	96.2		%	MJW 8/10/98
ACENAPHTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO(A) ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO(A) PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO(B) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO(K) FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
CHRYSENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
DIBENZO-(A,H)-ANTHRACENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
FLUORANTHENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
FLUORENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
INDENO -(1,2,3)-(C,D)-PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
NAPHTHALENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
PHENANTHRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
PYRENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
BENZO-(G,H,I)-PERLYENE	SW-846 METHOD 8270 BASE/NEUTRALS	ND	170	MCG/KG	GCMSB:135 8/11/98
B/N EXTRACTION	SW-846 METHOD 3500A	COMPLETED			MJW 8/10/98
EXTRACTION FOR PCBS	SW-846 METHOD 8080	COMPLETED			ACK 8/11/98
PCB1016	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1221	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1232	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1242	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1248	SW-846 METHOD 8080	ND	500	MCG/KG	GC3J:58 8/11/98
PCB1254	SW-846 METHOD 8080	3,800	500	MCG/KG	GC3J:58 8/11/98
PCB1260	SW-846 METHOD 8080	29,000	5,100	MCG/KG	GC3J:59 8/12/98
CHLOROMETHANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
VINYL CHLORIDE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
BROMOMETHANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
CHLOROETHANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
TRICHLOROFLUOROMETHANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
1,1-DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
ACETONE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98

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FLUOR DANIELS/GTI
1245 KINGS ROAD
SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 11:00
Sampled By : NEUMANN
Sample Id: SCH-TP2 (1.8)
Location : NMPC SCHOOL ST

Sample No: 980810X 03
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
CARBON DISULFIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
IODOMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
METHYLENE CHLORIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
ACRYLONITRILE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
TRANS-1,2 DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1-DICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
VINYL ACETATE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
2-BUTANONE (MEK)	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
CIS-1,2-DICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
CHLOROFORM	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BROMOCHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1,1-TRICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
CARBON TETRACHLORIDE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TRICHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DICHLOROPROPANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
DIBROMOMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BROMODICHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
4-METHYL-2-PENTANONE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
CIS-1,3-DICHLOROPROPENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TOLUENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TRANS-1,3-DICHLOROPROPENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1,2-TRICHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TETRACHLOROETHENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
2-HEXANONE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
DIBROMOCHLOROMETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DIBROMOETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
CHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
ETHYLBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98

(CONTINUES ON NEXT PAGE)

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SCHENECTADY NY 12303

PROJECT #: 9940864

Task #: 980810X

Attention: MR. RICH HIXON

Purchase Order Number:
Date Sampled: 08/10/98 Time: 11:00
Sampled By : NEUMANN
Sample Id: SCH-TP2 (1.8)
Location : NMPC SCHOOL ST

Sample No: 980810X 03
Date Received: 08/10/98
Collection Method: GRAB
Matrix: SOIL

Parameters and Standard Methodology Used		Results	PQL	Unit	Analyst Reference
	(CONTINUED FROM PREVIOUS PAGE)				
1,1,1,2-TETRACHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TOTAL XYLENES	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
STYRENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
BROMOFORM	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,1,2,2-TETRACHLOROETHANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2,3-TRICHLOROPROPANE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
TRANS-1,4-DICHLORO-2-BUTENE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
1,4-DICHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DICHLOROBENZENE	SW-846 METHOD 8260	ND	5	MCG/KG	GCMSCF:118 8/13/98
1,2-DIBROMO-3-CHLOROPROPANE	SW-846 METHOD 8260	ND	10	MCG/KG	GCMSCF:118 8/13/98
PURGE & TRAP EXTRACTION	SW-846 METHOD 5030	COMPLETED			GCMSCF:118 8/13/98

REMARKS:

LEGEND: MG/KG=PPM, MCG/KG=PPB, MG/L=PPM, MCG/L=PPB, MCG/G=PPM

PSA - Validated Analytical Data Reports

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

SDG - L56009

Samples collected 3/23/99 and 3/30/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L56009

PCB AND INORGANIC ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L56009 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC[2]
SD-1(0-0.5)	L56009-15	sediment	3/23/99			x		x
SD-1(0.5-1)	L56009-16	sediment	3/23/99			x		x
SD-1(1-1.5)	L56009-17	sediment	3/23/99			x		x
SD-2(0-0.5)	L56009-12	sediment	3/23/99			x		x
SD-2(0.5-1)	L56009-13	sediment	3/23/99			x		x
SD-2(1-1.5)	L56009-14	sediment	3/23/99			x		x
SD-3(0-0.5)	L56009-9	sediment	3/23/99			x		x
SD-3(0.5-1)	L56009-10	sediment	3/23/99			x		x
SD-3(1-1.5)	L56009-11	sediment	3/23/99			x		x
SD-4(0-0.5)	L56009-5	sediment	3/30/99			x		x
SD-4(0.5-1)[1]	L56009-6	sediment	3/30/99			x		x
SD-5(0-0.5)	L56009-2	sediment	3/30/99			x		x
SD-5(0.5-1)	L56009-3	sediment	3/30/99			x		x
SD-5(1-1.5)	L56009-4	sediment	3/30/99			x		x
SD-6(0-0.7)	L56009-1	sediment	3/30/99			x		x
SD-D1	L56009-18	sediment	3/30/99			x		x

1 MS/MSD analysis performed on sample
2 TOC analysis sub-contracted to H2M Laboratories -- Melville, NY

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were originally extracted within the specified holding time. Due to poor surrogate recoveries sample SD-1(1-1.5) was reextracted outside of ASP-specified holding time. Since the sample was reextracted within the technical holding time, no data were qualified based on the deviation. All samples were analyzed within the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blanks.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Recoveries for both surrogates were below control limits in sample SD-1(0.5-1). All data for the sample have been qualified as estimated based on the recoveries. All other surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

Due to the high concentration of Aroclor 1260 present in the unspiked sample (greater than 10 times the spike concentration), no matrix spike/matrix spike duplicate recoveries for this Aroclor could be calculated. The recoveries for Aroclor 1016 were, however, within control limits.

8. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SD-4(0.5-1)/SD-D1	Aroclor 1260	3040	2570	16.8%

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

10. Miscellaneous Comments

Aroclor 1260 was present, but not reported, in sample SD-1(1-1.5). Data for the sample has been corrected on the attached analysis summary sheet.

Aroclor 1248 appears to be present but not reported in samples SD-2(0-0.5), SD-2(0.5-1), SD-3(0.5-1) and SD-D1. Insufficient data has been supplied by the labororatory to determine the indentification/concentration present in these samples. Data for this Aroclor have, therefore, been qualified as estimated.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?	X		
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?	X		
If yes, were the samples reanalyzed?	X		
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
2 out of 4			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
1 out of 2			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?	X		
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
SD-1(0-0.5)			
SD-1(0.5-1)			
SD-1(1-1.5)		↓	↓
SD-1(1-1.5)RE	+5 (ASP)		
SD-2(0-0.5)			
SD-2(0.5-1)			
SD-2(1-1.5)			
SD-3(0-0.5)			
SD-3(0.5-1)			
SD-3(1-1.5)			
SD-4(0-0.5)			
SD-4(0.5-1)			
SD-4(0.5-1)MS			
SD-4(0.5-1)MSD			
SD-5(0-0.5)			
SD-5(0.5-1)			
SD-5(1-1.5)			
SD-6(0-0.7)			
SD-D1			

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	5/26/99-5/27/99	12/1/99	12/2/99	12/2/99	12/2/99	12/2/99	12/3/99	12/3/99
Time:		1704	0119	0205	1017	1520	1040	1316
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok	ok		ok	ok	ok	ok	ok
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok		ok					
Aroclor 1254	ok							
Aroclor 1260	ok	ok		ok	ok	ok	ok	ok
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							
Affected Samples:								

Corrected Sample Analysis Data Sheets

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-1(0-0.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-15

Sample wt/vol: 30.5 (g/mL) g Lab File ID: HP9B\1201B033

% Moisture: 32 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	24	U
11104-28-2	Aroclor-1221	24	U
11141-16-5	Aroclor-1232	24	U
53469-21-9	Aroclor-1242	24	U
12672-29-6	**Aroclor-1248**	**69**	
11097-69-1	Aroclor-1254	24	U
11096-82-5	**Aroclor-1260**	**58**	

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-1(0.5-1)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-16

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HP9B\1201B034

% Moisture: 28 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	23	U
11104-28-2	Aroclor-1221	23	U
11141-16-5	Aroclor-1232	23	U
53469-21-9	Aroclor-1242	23	U
12672-29-6	Aroclor-1248	23	U
11097-69-1	Aroclor-1254	23	U
11096-82-5	Aroclor-1260	23	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-1(0.5-1)RE

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-20

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\1203B006

% Moisture: 28 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/03/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/03/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	23	U
11104-28-2	Aroclor-1221	23	U
11141-16-5	Aroclor-1232	23	U
53469-21-9	Aroclor-1242	23	U
12672-29-6	Aroclor-1248	23	U
11097-69-1	Aroclor-1254	23	U
11096-82-5	Aroclor-1260	23	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-1(1-1.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-17

Sample wt/vol: 30.4 (g/mL) g Lab File ID: HP9B\1201B035

% Moisture: 26 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	22	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	22	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	Aroclor-1260	22 13	U J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-2(0-0.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-12

Sample wt/vol: 30.5 (g/mL) g Lab File ID: HP9B\1201B030

% Moisture: 30 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	23	U
11104-28-2	Aroclor-1221	23	U
11141-16-5	Aroclor-1232	23	U
53469-21-9	Aroclor-1242	23	U
12672-29-6	Aroclor-1248	23	U
11097-69-1	Aroclor-1254	23	U
11096-82-5	**Aroclor-1260**	**240**	

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-2(0.5-1)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-13

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HP9B\1201B031

% Moisture: 33 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	24	U
11104-28-2	Aroclor-1221	24	U
11141-16-5	Aroclor-1232	24	U
53469-21-9	Aroclor-1242	24	U
12672-29-6	Aroclor-1248	24	U
11097-69-1	Aroclor-1254	24	U
11096-82-5	**Aroclor-1260**	**85**	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-2(1-1.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-14

Sample wt/vol: 30.5 (g/mL) g Lab File ID: HP9B\1201B032

% Moisture: 29 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	23	U
11104-28-2	Aroclor-1221	23	U
11141-16-5	Aroclor-1232	23	U
53469-21-9	Aroclor-1242	23	U
12672-29-6	Aroclor-1248	23	U
11097-69-1	Aroclor-1254	23	U
11096-82-5	Aroclor-1260	23	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-3(0-0.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-9

Sample wt/vol: 30.4 (g/mL) g Lab File ID: HP9B\1202B012

% Moisture: 29 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	460	UD
11104-28-2	Aroclor-1221	460	UD
11141-16-5	Aroclor-1232	460	UD
53469-21-9	Aroclor-1242	460	UD
12672-29-6	Aroclor-1248	460	UD
11097-69-1	Aroclor-1254	460	UD
11096-82-5	**Aroclor-1260**	**7300**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-3(0.5-1)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-10

Sample wt/vol: 30 (g/mL) g Lab File ID: HP9B\1201B028

% Moisture: 24 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	22	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	22	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	**Aroclor-1260**	**320**	

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-3(1-1.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-11

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\1201B029

% Moisture: 21 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	21	U
11104-28-2	Aroclor-1221	21	U
11141-16-5	Aroclor-1232	21	U
53469-21-9	Aroclor-1242	21	U
12672-29-6	Aroclor-1248	21	U
11097-69-1	Aroclor-1254	21	U
11096-82-5	Aroclor-1260	21	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-4(0-0.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-5

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1202B006

% Moisture: 23 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	220	UD
11104-28-2	Aroclor-1221	220	UD
11141-16-5	Aroclor-1232	220	UD
53469-21-9	Aroclor-1242	220	UD
12672-29-6	Aroclor-1248	220	UD
11097-69-1	Aroclor-1254	220	UD
11096-82-5	**Aroclor-1260**	**3000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-4(0.5-1)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-6

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\1202B007

% Moisture: 17 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	200	UD
11104-28-2	Aroclor-1221	200	UD
11141-16-5	Aroclor-1232	200	UD
53469-21-9	Aroclor-1242	200	UD
12672-29-6	Aroclor-1248	200	UD
11097-69-1	Aroclor-1254	200	UD
11096-82-5	**Aroclor-1260**	**1900**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-5(0-0.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-2

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1202B003

% Moisture: 34 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	120	UD
11104-28-2	Aroclor-1221	120	UD
11141-16-5	Aroclor-1232	120	UD
53469-21-9	Aroclor-1242	120	UD
12672-29-6	Aroclor-1248	120	UD
11097-69-1	Aroclor-1254	120	UD
11096-82-5	**Aroclor-1260**	**1900**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-5(0.5-1)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-3

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1202B004

% Moisture: 19 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	100	UD
11104-28-2	Aroclor-1221	100	UD
11141-16-5	Aroclor-1232	100	UD
53469-21-9	Aroclor-1242	100	UD
12672-29-6	Aroclor-1248	100	UD
11097-69-1	Aroclor-1254	100	UD
11096-82-5	**Aroclor-1260**	**1000**	D

FORM I PEST

1D

SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SD-5(1-1.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-4

Sample wt/vol: 30.3 (g/mL) g Lab File ID: HP9B\1202B005

% Moisture: 18 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	100	UD
11104-28-2	Aroclor-1221	100	UD
11141-16-5	Aroclor-1232	100	UD
53469-21-9	Aroclor-1242	100	UD
12672-29-6	Aroclor-1248	100	UD
11097-69-1	Aroclor-1254	100	UD
11096-82-5	**Aroclor-1260**	**1500**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-6(0-0.7)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-1

Sample wt/vol: 30.4 (g/mL) g Lab File ID: HP9B\1202B002

% Moisture: 33 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	120	UD
11104-28-2	Aroclor-1221	120	UD
11141-16-5	Aroclor-1232	120	UD
53469-21-9	Aroclor-1242	120	UD
12672-29-6	Aroclor-1248	120	UD
11097-69-1	Aroclor-1254	120	UD
11096-82-5	**Aroclor-1260**	**1600**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-D1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56009

Matrix: (soil/water) SOIL Lab Sample ID: L56009-18

Sample wt/vol: 30.3 (g/mL) g Lab File ID: HP9B\1202B013

% Moisture: 20 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/02/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	210	~~U~~
11104-28-2	Aroclor-1221	210	~~U~~
11141-16-5	Aroclor-1232	210	~~U~~
53469-21-9	Aroclor-1242	210	~~U~~
12672-29-6	Aroclor-1248	210	~~U~~
11097-69-1	Aroclor-1254	210	~~U~~
11096-82-5	**Aroclor-1260**	**2600**	~~D~~

FORM I PEST

SUPPLEMENTAL PARAMETERS

Introduction

Analyses were performed according to the following method:

Total Organic Carbon	EPA-Lloyd Kahn

The data review process is intended to evaluate data on a technical basis. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate quality review prior to submission for review.

During the review process, laboratory data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, modified or deleted by the data reviewer. Results are qualified with the following codes in accordance with the National Functional Guidelines.

U The material was analyzed for, but was not detected. The associated value is either the sample quantitation limit or the sample detection limit depending on the method.

J The associated value is an estimated quantity.

UJ The material was analyzed for, but was not detected. The associated value is approximate and may or may not represent the actual limit of quantitation/detection.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The method-specified holding time is as follows:

Total Organic Carbon	14 days from collection

All samples were analyzed for TOC over the method-specified holding time. All TOC data have been qualified as estiamted based on the holding time violation.

2. Calibration

The TOC calibration data was acceptable.

3. Blank Contamination

No TOC was reported in the method or calibration blanks.

4. Laboratory Duplicates

The laboratory duplicate results were acceptable.

5. Laboratory Control Sample (LCS)

All laboratory control sample recoveries were acceptable.

6. Matrix Spike

The TOC matrix spike recovery was acceptable.

7. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SD-4(0.5-1)/SD-D1	TOC	14800	14900	0.7%

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

8. Overall Assessment

Other than those deviations mentioned in this report, the analyses of the samples were in conformance with method specifications.

DATA REVIEW CHECKLIST

Supplemental Data Review Checklist

	YES	NO	NA
Data Completeness			
Is there a narrative or cover letter present?	X		
Are the samples numbers included in the narrative?	X		
Are the methods utilized notated?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?	X		
Laboratory Duplicates			
Were duplicates analyzed and were the relative percent differences between results within acceptable limits?	X		
Laboratory Control Samples			
Were LCS analyzed and were recoveries within acceptable limits?	X		
Blanks			
Has a method blank been analyzed for each set of samples or for each 20 samples?	X		
Do any have results above the reporting limit?		X	
Do any field/rinse blanks have positive results?			X
Calibration			
Are calibration acceptable?	X		
Raw Data			
Is raw data present and complete for all samples and QC?	X		
Compound Quantitation and Reported Limits			
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		

Supplemental Parameter Results

HZM LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936858

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-D1

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	14900	mg/kg

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

H 0003

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936859

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1230 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-1 (0-0.5)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	12800	mg/kg

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

W 0004

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936860

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1230 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-1 (0.5-1.0)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	15300	mg/kg

COPIES TO:

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ORIGINAL

LABORATORY DIRECTOR

H 0005

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936861

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1230 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-1 (1.0-1.5)
REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	14600	mg/kg J

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

W 0006

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936862

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1200 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-2 (0-0.5)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	21300	mg/kg J

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

H 0007

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936863

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1200 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-2 (0.5-1.0)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	17800	mg/kg J

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

W 0008

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936864

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1200 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-2 (1.0-1.5)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	6740	mg/kg J

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

H 0009

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936865

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1130 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-3 (0-0.5)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	30700	mg/kg J

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ORIGINAL

LABORATORY DIRECTOR

H 0010

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936866

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1130 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-3 (0.5-1.0)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	10800	mg/kg J

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ORIGINAL

LABORATORY DIRECTOR
NY 0011

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936867

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1130 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-3 (1.0-1.5)
REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	8430	mg/kg J

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DATE ISSUED 12/22/99

ORIGINAL

J M Slavin
LABORATORY DIRECTOR

H 0012

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936868

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1100 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-4 (0-0.5)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	6980	mg/kg J

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ORIGINAL

J M Slavin
LABORATORY DIRECTOR

H 0013

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936869

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1100 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-4 (0.5-1.0)
~~MS/MSD~~
REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	14800	mg/kg J

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DATE ISSUED 12/22/99

ORIGINAL

J M Slavin
LABORATORY DIRECTOR

H 0014

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936870

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1040 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-5 (0-0.5)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	17400	mg/kg J

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

W 0015

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936871

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1040 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-5 (0.5-1.0)
REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	6250	mg/kg

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

H 0016

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936872

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 1040 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-5 (1.0-1.5)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	13400	mg/kg J

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

W 0017

H2M LABS, INC.
575 Broad Hollow Road, Melville, N.Y. 11747
(516)694-3040 FAX:(516)420-8436 NYSDOH ID# 10478

LAB NO: 9936873

GALSON LABORATORIES, INC.
PAM WEAVER
6601 KIRKVILLE ROAD EAST
E. SYRACUSE, NY 13057

TYPE..... SOIL
ROUTINE
METHOD.... GRAB

DATE COLLECTED. 11/23/99
TIME COLLECTED. 0930 HRS.
DATE RECEIVED.. 11/30/99
COLLECTED BY... CLIENT
PROJECT NO..... L56009

POINT NO:
LOCATION: SD-6 (0-0.7)

REMARKS:

PARAMETER (S)	RESULTS	UNITS
T. ORGANIC CARBON (TOC)	19200	mg/kg J

COPIES TO:

DATE ISSUED 12/22/99

ORIGINAL

LABORATORY DIRECTOR

H 0018

Laboratory Narrative

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Mr. Mike Jones
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC School Street; Project No. 36494
SDG L56009

The following package contains the analytical results of the soil samples submitted to our laboratory on November 23, 1999. The samples were received intact and under proper chain of custody. The temperature of the samples was checked upon receipt. The sample temperature, as recorded with a temperature gun, was 1.9°C. The samples were assigned to login and sample delivery group (SDG) L56009.

The samples submitted for TOC analysis were subcontracted to H2M Labs, Inc. Their report is submitted in its entirety.

The samples were reported according to ASP Category B guidelines. Sample SD-4 (0.5-1.0) was submitted for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 method 8082 for PCBs and TOC by Lloyd Kahn method.

Low surrogate recoveries were observed for sample SD-1 (0.5-1.0). As a result, the sample was re-extracted on December 3, 1999. This date is outside the project hold time, but within RCRA hold time of 14 days. The re-extract was assigned Galson ID: L56009-20. Both results are reported.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklist*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: December 10, 1999

Method 8082 PCB Package Review Checklist

Client PBL **Project** Nimo School St. **SDG** L360059

		Yes	No	NA
DEC Forms:	Present and complete	✓		
	Holding times met *	✓		

Comments: *Sample SD-1(0.5-1) was re-extracted outside of QAPP but within RCRA hold time of 14 days

Internal Chain of Custody: Present		✓		
Form 1D:	Present and complete	✓		
	Raw Data present for all samples	✓		
	Non-detects lined-out and initialed	✓		

Comments: _____

Form 2E:	Present and complete	✓		
	Surrogate Recoveries within limits		✓	

Comments: Sample SD-1(0.5-1) surrogate recovery was below in house QC. Limits. Sample met recovery criteria upon re-extraction and analysis

Form 3E:	Present and complete	✓		
	Spike Recoveries within limits		✓	

Comments: MS/MSD recovery outside of in-house control limits due to high concentration of AR1260 in the sample

Method 8082 PCB Package Review Checklist

Client BBL Project NIMO/SCHOOL ST SDG L552009

		Yes	No	NA
Form 4C:	Present and complete	✓		
IDLs:	Present and complete	✓		
GC Parameters:	Present and complete	✓		
Form 6E:	Present and complete	✓		
	% RSD within limits (≤ 20 %)	✓		

Comments: _____

_____

Form 7:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Form 8:	Present and complete	✓		
	% D within limits	✓		
Form 9:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Calibration Data:	Present and complete	✓		

Method 8082 PCB Package Review Checklist

Client BBL Project Nimo/School St SDG L56009

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓

Comment: _____

Calculation Formula:	Present	✓		
Extraction Logs:	Present	✓		
GPC/Calibration Logs:	Present			✓
% Moisture Calculation:	Present	✓		
Calibration and Spike Standards Log:	Present	✓		

Section Supervisor: Gemma N. Kappil Date: 12/09/99

QC Reviewer: [signature] Date: 12/10/99

H2M LABS, INC.

SDG NARRATIVE FOR WET CHEMISTRY
SAMPLES RECEIVED: 11/30/99
SDG NO.: GAL 139

For Samples:

SD-D1
SD-1 (0-0.5)
SD-1 (0.5-1.0)
SD-1 (1.0-1.5)
SD-2 (0-0.5)
SD-2 (0.5-1.0)
SD-2 (1.0-1.5)
SD-3 (0-0.5)
SD-3 (0.5-1.0)
SD-3 (1.0-1.5)
SD-4 (0-0.5)
SD-4 (0.5-1.0) MS/MSD
SD-5 (0-0.5)
SD-5 (0.5-1.0)
SD-5 (1.0-1.5)
SD-6 (0-0.7)

Sixteen soil samples were received by H2M Labs, Inc. on November 30, 1999 for total organic carbon analysis using the EPA Llyod Kahn Toc method.

Sample SD-4 (0.5-1.0) 9936869 was utilized for spike and replicate analysis.

Total Solids analysis utilized for dry weight calibration were supplied by Galson Laboratories.

No problems were noted during the analysis of this sample group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: December 22, 1999

Vincent Stancampiano
Vice President

o:\qc\msk\galwc.doc

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L56009 SDG : L56009 MATRIX : Soil

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbametes Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
SD-6(0-0.7)	L56009-1			X												1
SD-5(0-0.5)	L56009-2			X												1
SD-5(0.5-1)	L56009-3			X												1
SD-5(1-1.5)	L56009-4			X												1
SD-4(0-0.5)	L56009-5			X												1
SD-4(0.5-1)	L56009-6			X												1
SD-4(0.5-1)MS	L56009-7			X												1
SD-4(0.5-1)MSD	L56009-8			X												1
SD-3(0-0.5)	L56009-9			X												1
SD-3(0.5-1)	L56009-10			X												1
SD-3(1-1.5)	L56009-11			X												1
SD-2(0-0.5)	L56009-12			X												1
SD-2(0.5-1)	L56009-13			X												1
SD-2(1-1.5)	L56009-14			X												1
SD-1(0-0.5)	L56009-15			X												1
SD-1(0.5-1)	L56009-16			X												1
SD-1(1-1.5)	L56009-17			X												1
SD-D1	L56009-18			X												1
MSB/LCS	L56009-19			X												1
SD-1(0.5-1)RE	L56009-20			X												

WET CHEM LIST 1 : TOC

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
SD-1(0-0.5) L56009-15	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	01-DEC-99
SD-1(0.5-1) L56009-16	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	01-DEC-99
SD-1(0.5-1)RE L56009-20	SOIL	23-NOV-99	23-NOV-99	03-DEC-99	03-DEC-99
SD-1(1-1.5) L56009-17	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-2(0-0.5) L56009-12	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	01-DEC-99
SD-2(0.5-1) L56009-13	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	01-DEC-99
SD-2(1-1.5) L56009-14	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	01-DEC-99
SD-3(0-0.5) L56009-9	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-3(0.5-1) L56009-10	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	01-DEC-99
SD-3(1-1.5) L56009-11	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	01-DEC-99
SD-4(0-0.5) L56009-5	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-4(0.5-1) L56009-6	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-4(0.5-1)MS L56009-7	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-4(0.5-1)MSD L56009-8	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-5(0-0.5) L56009-2	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-5(0.5-1) L56009-3	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
SD-5(1-1.5) L56009-4	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-6(0-0.7) L56009-1	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99
SD-D1 L56009-18	SOIL	23-NOV-99	23-NOV-99	24-NOV-99	02-DEC-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
SD-1(0-0.5) L56009-15	Soil	8080 NYSDEC ASP CAT B	SW846/3550 /8082	ACID WASH ALUMINA	1
SD-1(0.5-1) L56009-16	Soil		SW846/3550 /8082		1
SD-1(0.5-1)RE L56009-20	Soil		SW846/3550		1
SD-1(1-1.5) L56009-17	Soil		SW846/3550 /8082		1
SD-2(0-0.5) L56009-12	Soil		SW846/3550 /8082		1
SD-2(0.5-1) L56009-13	Soil		SW846/3550 /8082		1
SD-2(1-1.5) L56009-14	Soil		SW846/3550 /8082		1
SD-3(0-0.5) L56009-9	Soil		SW846/3550 /8082		20
SD-3(0.5-1) L56009-10	Soil		SW846/3550 /8082		1
SD-3(1-1.5) L56009-11	Soil		SW846/3550 /8082		1
SD-4(0-0.5) L56009-5	Soil		SW846/3550 /8082		10
SD-4(0.5-1) L56009-6	Soil		SW846/3550 /8082		10
SD-4(0.5-1)MS L56009-7	Soil		SW846/3550 /8082		10
SD-4(0.5-1)MSD L56009-8	Soil		SW846/3550 /8082		10
SD-5(0-0.5) L56009-2	Soil		SW846/3550 /8082		5
SD-5(0.5-1) L56009-3	Soil		SW846/3550 /8082		5

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
SD-5(1-1.5) L56009-4	Soil	8082 NYSDEC ASP CAT B	SW846/3550 /8082	ACID WASH ALUMINA	5
SD-6(0-0.7) L56009-1	Soil	↓	SW846/3550 /8082	↓	5
SD-D1 L56009-18	Soil	↓	SW846/3550 /8082	↓	10

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
NYS DEC
GALSON LABORATORIES
PROJECT NO.: L56009
SAMPLES RECEIVED: 11/30/99
SDG NO.: GAL139

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*HERB	PCB	*METALS	OTHER
SD-D1	9936858						X
SD-1 (0-0.5)	9936859						X
SD-1 (0.5-1.0)	9936860						X
SD-1 (1.0-1.5)	9936861						X
SD-2 (0-0.5)	9936862						X
SD-2 (0.5-1.0)	9936863						X
SD-2 (1.0-1.5)	9936864						X
SD-3 (0-0.5)	9936865						X
SD-3 (0.5-1.0)	9936866						X
SD-3 (1.0-1.5)	9936867						X
SD-4 (0-0.5)	9936868						X
SD-4 (0.5-1.0) MS/MSD	9936869						X
SD-5 (0-0.5)	9936870						X
SD-5 (0.5-1.0)	9936871						X
SD-5 (1.0-1.5)	9936872						X
SD-6 (0-0.7)	9936873						X

* Check Appropriate Boxes
* CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP-B 10/95
* TCL/TAL, HCL, TS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES
GALSON LABS
PROJECT NO.: L56009
SAMPLES RECEIVED: 11/30/99
SDG NO.: GAL139

SAMPLE ID	MATRIX	ANALYSIS REQUESTED	DATE RECEIVED	DATE * ANALYZED
SD-D1	SOIL	TOC	11/30/99	12/20/99
SD-1 (0-0.5)	SOIL	TOC	11/30/99	12/20/99
SD-1 (0.5-1.0)	SOIL	TOC	11/30/99	12/20/99
SD-1 (1.0-1.5)	SOIL	TOC	11/30/99	12/20/99
SD-2 (0-0.5)	SOIL	TOC	11/30/99	12/20/99
SD-2 (0.5-1.0)	SOIL	TOC	11/30/99	12/20/99
SD-2 (1.0-1.5)	SOIL	TOC	11/30/99	12/20/99
SD-3 (0-0.5)	SOIL	TOC	11/30/99	12/20/99
SD-3 (0.5-1.0)	SOIL	TOC	11/30/99	12/20/99
SD-3 (1.0-1.5)	SOIL	TOC	11/30/99	12/20/99
SD-4 (0-0.5)	SOIL	TOC	11/30/99	12/20/99
SD-4 (0.5-1.0) MS/MSD	SOIL	TOC	11/30/99	12/20/99
SD-5 (0-0.5)	SOIL	TOC	11/30/99	12/20/99
SD-5 (0.5-1.0)	SOIL	TOC	11/30/99	12/20/99
SD-5 (1.0-1.5)	SOIL	TOC	11/30/99	12/20/99
SD-6 (0-0.7)	SOIL	TOC	11/30/99	12/20/99

* SEE INDIVIDUAL RUN SHEETS FOR EXACT DATES.

A 0001

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TOC	
L56009	3/23/99	1995	SD-1(0-0.5)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/23/99	1995	SD-1(0.5-1)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/23/99	1995	SD-1(1-1.5)	sediment	--	--	no	no	PCB-MS[2], Surr TOC-Hold Time
L56009	3/23/99	1995	SD-1(1-1.5)RE	sediment	--	--	no	no	PCB-MS[2], Hold Time[2], surr TOC-Hold Time
L56009	3/23/99	1995	SD-2(0-0.5)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/23/99	1995	SD-2(0.5-1)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/23/99	1995	SD-2(1-1.5)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/23/99	1995	SD-3(0-0.5)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/23/99	1995	SD-3(0.5-1)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/23/99	1995	SD-3(1-1.5)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/30/99	1995	SD-4(0-0.5)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/30/99	1995	SD-4(0.5-1)[1]	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/30/99	1995	SD-5(0-0.5)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/30/99	1995	SD-5(0.5-1)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/30/99	1995	SD-5(1-1.5)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TOC	
L56009	3/30/99	1995	SD-6(0-0.7)	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time
L56009	3/30/99	1995	SD-D1	sediment	--	--	no	no	PCB-MS[2] TOC-Hold Time

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

SDG - L50155
Samples collected 3/30/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L50155

PCB ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L50155 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
S-10(6-18")[1]	L50155-1	subsurface soil	03/30/99			x		
S-12(6-18")	L50155-4	subsurface soil	03/30/99			x		

1 MS/MSD analysis performed on sample

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted outside the ASP-specified holding time. Since all samples were extracted within the technical holding time, no data have been qualified based on the deviation. All samples were analyzed within the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blank.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between recoveries were within control limits.

8. Matrix Spike Blank

The matrix spike blank recovery was within control limits.

9. Field Duplicates

No field duplicates were included in this data set. However, based on the results of a field duplicate included in a later SDG, Aroclor 1260 data for all surface soils have been qualified as estimated.

10. Miscellaneous Comments

Sample S-10(6-18") has Aroclor 1260 present but not reported at a concentration below the quantitation limit. The attached sample analysis data sheet has been corrected to reflect the presence.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?	X		
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 2			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 1			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?		X	

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?	X		
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?		X	

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
S-10(6-18")[1]	+2 (ASP)		
S-10(6-18") MS	+2 (ASP)		
S-10(6-18") MSD	+2 (ASP)		
S-12(6-18")	+2 (ASP)		

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9A
Column: DB-1701

Date:	1/21/99-1/22/99	4/07/99	4/07/99	4/07/99	4/07/99			
Time:		1249	1312	1637	1700			
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok		ok		ok			
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok							
Aroclor 1254	ok	ok		ok				
Aroclor 1260	ok		ok		ok			
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							
Affected Samples:								

Corrected Sample Analysis Data Sheets

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-10(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50155

Matrix: (soil/water) SOIL Lab Sample ID: L50155-1

Sample wt/vol: 31.9 (g/mL) g Lab File ID: HP9A\A040710

% Moisture: 17 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/07/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/07/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	19	U
11104-28-2	Aroclor-1221	19	U
11141-16-5	Aroclor-1232	19	U
53469-21-9	Aroclor-1242	19	U
12672-29-6	Aroclor-1248	19	U
11097-69-1	Aroclor-1254	19	U
11096-82-5	Aroclor-1260	~~19~~ 1960	~~U~~ J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-12(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50155

Matrix: (soil/water) SOIL Lab Sample ID: L50155-4

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9A\A040713

% Moisture: 18 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/07/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/07/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	20	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	20	U
53469-21-9	Aroclor-1242	20	U
12672-29-6	Aroclor-1248	20	U
11097-69-1	Aroclor-1254	20	U
11096-82-5	**Aroclor-1260**	**130**	J

FORM I PEST

Laboratory Narrative

vlj2166

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Mr. John Brussel
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC School Street; Project No. 364.94
SDG L50155

The following package contains the analytical results of the soil samples submitted to our laboratory on March 31, 1999. The samples were received intact and under proper chain of custody. The samples were assigned to login and sample delivery group (SDG) L50155.

The samples were reported according to ASP Category B guidelines. Sample S-10 (6-18) was selected for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 method 8082.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklist*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Lyndi M. Mott

Date: April 20, 1999

Method 8082 PCB Package Review Checklist

Client EBA **Project** NRC - Schodack **SDG** L50155

		Yes	No	NA
DEC Forms:	Present and complete	✓		
	Holding times met	✓		

Comments: _____

_____

Internal Chain of Custody: Present		✓		
Form 1D:	Present and complete	✓		
	Raw Data present for all samples	✓		
	Non-detects lined-out and initialed	✓		

Comments: _____

_____

Form 2E:	Present and complete	✓		
	Surrogate Recoveries within limits	✓		

Comments: _____

_____

Form 3E:	Present and complete	✓		
	Spike Recoveries within limits	✓		

Comments: _____

_____

Method 8082 PCB Package Review Checklist

Client BBL **Project** NRC-Shadyside **SDG** L50155

		Yes	No	NA
Form 4C:	Present and complete	✓		
IDLs:	Present and complete	✓		
GC Parameters:	Present and complete	✓		
Form 6E:	Present and complete	✓		
	% RSD within limits (≤ 20 %)	✓		

Comments: _____

_____

Form 7:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Form 8:	Present and complete	✓		
	% D within limits	✓		
Form 9:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Calibration Data:	Present and complete	✓		

Method 8082 PCB Package Review Checklist

Client BBL Project NMR - School SDG L50155

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓

Comment: _____

Calculation Formula:	Present	✓		
Extraction Logs:	Present	✓		
GPC/Calibration Logs:	Present			✓
% Moisture Calculation:	Present	✓		
Calibration and Spike Standards Log:	Present	✓		

Section Supervisor: Carmen V. Kappil Date: 4/20/99

QC Reviewer: [signature] Date: 4/20/99

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L50155 SDG : L50155 MATRIX : Soil

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1991															
		VOA	MS BNA	Pest/ PCB'S	Organophos Pesticides	Chlor. Herb.	T. Dithio-Carbamates Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
S-10(6-18")	L50155-1			X												
S-10(6-18")MS	L50155-2			X												
S-10(6-18")MSD	L50155-3			X												
S-12(6-18")	L50155-4			X												
MSB	L50155-5			X												

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
S-10(6-18") L50155-1	SOIL	30-MAR-99	31-MAR-99	07-APR-99	07-APR-99
S-10(6-18")MS L50155-2	SOIL	30-MAR-99	31-MAR-99	07-APR-99	07-APR-99
S-10(6-18")MSD L50155-3	SOIL	30-MAR-99	31-MAR-99	07-APR-99	07-APR-99
S-12(6-18") L50155-4	SOIL	30-MAR-99	31-MAR-99	07-APR-99	07-APR-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
S-10(6-18") L50155-1	Soil	8081 NYSDEC ASP CAT B	SW846/3550	ACID WASH ALUMINA	1
S-10(6-18")MS L50155-2	Soil	"	SW846/3550	"	1
S-10(6-18")MSD L50155-3	Soil	"	SW846/3550	"	1
S-12(6-18") L50155-4	Soil	"	SW846/3550	"	1

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L50155	03/30/99	1995	S-10(6-18")[1]	soil	--	--	no	--	PCB - HT[2], f.dup
L50155	03/30/99	1995	S-12(6-18")	soil	--	--	no	--	PCB - HT[2], f.dup

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

SDG - L50263
Samples collected 4/9/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L50263

VOLATILE, SEMIVOLATILE, PCB
AND INORGANIC ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L50263 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
MW-1	L50263-1	water	4/9/99	x	x	x	x	
MW-2D[1]	L50263-2	water	4/9/99	x	x	x	x	
MW-3	L50263-3	water	4/9/99	x	x	x	x	
BLIND DUP	L50263-4	water	4/9/99	x	x	x	x	
TRIP BLANK	L50263-7	water	--	x				

1 MS/MSD/DUP analysis performed on sample

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound detection limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding time for volatile analyses under NYSASP is 10 days from sample receipt. The technical holding time for unpreserved waters is 7 days from sample collection for aromatic compounds and 14 days from collection for non-aromatic compounds.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Field and rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the method or trip blanks.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) limits for select compounds only and allows two outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD for was less than 30% and all response factors were greater than 0.05 for all compounds, with the following exceptions:

Instrument MSC 4/13/99

Acetone	44.0%

All data for acetone have been qualified as estimated based on the %RSD.

4.2 Continuing Calibration

The method species percent drift (%D) criteria for select compounds only. A technical review applies limits to all compounds with no exceptions.

All compounds were within 25%D, with the following exceptions:

Instrument MSC 4/14/99 14:51

Acetone	-31.5%
Iodomethane	33.2%
2-Butanone	-27.6%

All data for acetone have been previously qualified as estimated based on the initial calibration %RSD. All data for 2-butanone have been qualified as estimated based on the %D. Since no iodomethane was detected in the samples and since the compound response was increasing, no additional data have been qualified based on the %D.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Recovery for one surrogate was above control limits in samples MW-1, BLIND DUP and MW-2MSD. All positive data for sample MW-2MSD have been qualified as estimated based on the recovery. Since no target compounds were detected in the remaining samples, the surrogate recovery has no impact on the reported data. All other surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

All internal standard responses and retention times were within established limits.

7. Compound Identification

Compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

No target compounds were detected in the samples.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

All matrix spike and matrix spike duplicate recoveries were within control limits. All relative percent differences between recoveries were, however, outside control limits. Since the high RPD can be related to high surrogate recovery in the matrix spike duplicate, no data have been qualified based on the results.

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-2D / BLIND DUP	ND	--	--	NA

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

11. General Comments

The reported values for non-detected compounds are the associated detection limits, not the quantitation limits.

The laboratory-reported limit for methylene chloride was below the instrument detection limit. The attached sample analysis summary forms have been corrected to reflect the actual detection limit.

12. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all the samples listed on the appropriate surrogate recovery form?	X		
Was one or more surrogate recoveries outside of specified limits for any sample or blank?	X		
If yes, were the samples reanalyzed?		X	
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 10			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
5 out of 5			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every twelve hours for each system used?	X		

Volatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
Do any method/reagent/instrument blanks have positive results?		X	
Are there trip/field/rinse blanks associated with every sample?	X		
Do any trip/field/rinse blanks have positive results?		X	
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each twelve hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?			X
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?			X
Do the samples and standard relative ion intensities agree within 20%?			X
Tentatively Identified Compounds			
Are all the TIC summary forms present?	X		

Volatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	X		
Are any target compounds listed as TICs?		X	
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
Do the TIC and "best match" spectrum agree within 20%?	X		
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?			X
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	

Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
Internal Standards			
Are internal standard areas of every sample and blank within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*			Internal Standards*		
		TOL	BFB	DCE	DFB	DCB	CBZ
MW-1			↑				
MW-2D							
MW-2DMS							
MW-2DMSD			↑				
MW-3							
BLIND DUP			↑				
TRIP BLANK							

Surrogates:
TOL Toluene-d8
BFB Bromofluorobenzene
DCE 1,4-Dichloroethane-d4

Internal Standards:
DFB 1,4-Difluorobenzene
DCB 1,4-Dichlorobenzene-d4
CBZ Chlorobenzene-d5

Qualifiers:
D Diluted
↑ Recovery high
↓ Recovery low
↓↓ Recovery <25%

* Unless otherwise specified, all parameters are within acceptable limits.

Volatile Calibration Outliers

Instrument: MSC
Matrix: water
Level: low

Date/Time	4/13/99		4/14/99 1451							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
chloromethane										
bromomethane										
vinyl chloride										
chloroethane										
trichlorofluoromethane										
methylene chloride										
acetone		44.0		-31.5						
iodomethane				33.2						
carbon disulfide										
acrylonitrile										
1,1-dichloroethene										
1,1-dichloroethane										
cis-1,2-dichloroethene										
trans-1,2-dichloroethene										
vinyl acetate										
chloroform										
1,2-dichloroethane										
2-butanone				-27.6						
bromochloromethane										
1,1,1-trichloroethane										
carbon tetrachloride										
bromodichloromethane										
2-chloroethylvinyl ether										
1,2-dichloropropane										
cis-1,3-dichloropropene										
trichloroethene										
dibromochloromethane										
1,1,2-trichloroethane										
benzene										
trans-1,3-dichloropropene										
bromoform										
1,1,1,2-tetrachloroethane										
4-methyl-2-pentanone										
2-hexanone										

Volatile Calibration Outliers - Page 2

Date/Time	4/13/99		4/14/99 1451							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
tetrachloroethene										
1,1,2,2-tetrachloroethane										
toluene										
1,2-dibromoethane										
chlorobenzene										
ethylbenzene										
styrene										
m/p-xylenes										
o-xylene										
trans-1,4-dichloro-2-butene										
isopropylbenzene										
1,2,3-trichloropropane										
n-propylbenzene										
1,3,5-trimethylbenzene										
tert-butylbenzene										
1,2,4-trimethylbenzene										
sec-butylbenzene										
p-isopropyltoluene										
1,3-dichlorobenzene										
1,4-dichlorobenzene										
1,2-dichlorobenzene										
n-butylbenzene										
1,2-dibromo-3-chloropropane										

Affected Samples				
mw-1	mw-1			
mw-2d	mw-2d			
mw-2dms	mw-2dms			
mw-2dmsd	mw-2dmsd			
blind dup	blind dup			
trip blank	trip blank			

vlj2167

Corrected Sample Analysis Data Sheets

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLIND DUP

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-4

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041412

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
108-05-4	Vinyl acetate	2	U
78-93-3	2-Butanone	2	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethylvinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLIND DUP

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-4

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041412

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	1	U
110-57-6	t-1,4-Dichloro-2-butene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U

1E

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

BLIND DUP

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-4

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041412

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	007446-09-5	Sulfur dioxide	1.69	6	J
2.					
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1A

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-1

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041408

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
108-05-4	Vinyl acetate	2	U
78-93-3	2-Butanone	2	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethylvinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-1

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041408

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	1	U
110-57-6	t-1,4-Dichloro-2-butene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U

1E

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-1

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041408

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		No Volatiles Found			
2.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-2

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041409

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
108-05-4	Vinyl acetate	2	U
78-93-3	2-Butanone	2	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethylvinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-2

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041409

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	1	U
110-57-6	t-1,4-Dichloro-2-butene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-2D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-2

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041409

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		No Volatiles Found			
2.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-3

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041411

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
108-05-4	Vinyl acetate	2	U
78-93-3	2-Butanone	2	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethylvinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U

1A

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-3

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041411

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	1	U
110-57-6	t-1,4-Dichloro-2-butene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U

1E

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-3

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041411

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		No Volatiles Found			
2.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-7

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041407

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U UJ
75-09-2	Methylene Chloride	4 2	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-13-1	Acrylonitrile	10	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
108-05-4	Vinyl acetate	2	U
78-93-3	2-Butanone	2	U UJ
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethylvinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-7

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041407

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	1	U
110-57-6	t-1,4-Dichloro-2-butene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
98-06-6	tert-butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U

1E

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TRIP BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) Water Lab Sample ID: L50263-7

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC041407

Level: (low/med) LOW Date Received: 04/09/99

%Moisture: not dec. Date Analyzed: 04/14/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		No Volatiles Found			
2.					
3.					
4.					
5.					
6.					
7.					
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9.					
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SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270 as referenced in the NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The method specified holding times for semivolatile analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for waters are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, and rinse blanks) are prepared to identify any contamination which may have been introduced in to the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

Di-n-butyl phthalate was detected in the method blank. Since no di-n-butyl phthalate was detected in the samples, the blank content has no impact on the reported data.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) limits for select compounds only and allows four outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD for was less than 30% and the response factors were greater than 0.05 for all compounds, with the following exceptions:

Hexachlorocyclopentadiene	46.2%
2,4-Dinitrophenol	36.0%

All data for the listed compounds have been qualified as estimated based on the %RSD.

4.2 Continuing Calibration

The continuing calibration standards were within 25% difference (%D) of the initial calibration for all compounds.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

All internal standard responses and retention times were within established limits.

7. Compound Identification

Compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike, matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between recoveries were within control limits.

9. Matrix Spike Blank

Recovery for one compound (4-nitrophenol) was slightly above control limits in the matrix spike blank. No data have been qualified based on the recovery.

10. Field Duplicate

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-2D / BLIND DUP	bis(2-ethylhexyl)phthalate	3J	1900	199%

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

Data for bis(2-ethylhexyl)phthalate have been rejected in the samples based on the duplicate results.

11. System Performance and Overall Assessment

Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method and the data is considered acceptable for use as reported by the laboratory.

Data Validation Checksheets

Semi-Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits? 0 out of 22			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits? 0 out of 11			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method blanks have positive results?	X		
Are there field/rinse blanks associated with every sample?		X	
Do any field/rinse blanks have positive results?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for DFTPP?	X		
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	X		
Has a DFTPP been analyzed for each twelve hours of analysis per instrument?	X		
Have the ion abundance criteria been met?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?	X		
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	X		
Are any target compounds listed as TICs?		X	
Are all ion present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		

	YES	NO	NA
Do the TIC and "best match" spectrum agree within 20%?	X		
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?	X		
Are the average RRF equal to or greater than minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	X		
All %D within acceptable limits?	X		
Are all RF equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every samples and blank within the established upper and lower limits?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Semi-Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	DCB	NPT	ANT	PHN	CRY	PRY
MW-1															
MW-2D															
MW-2DMS															
MW-2DMSD															
MW-3															
BLIND DUP															

Surrogates:
NBZ Nitrobenzene-d5
FBP 2-Fluorobiphenyl
TPH Terphenyl-d14
DCB 1,2-Dichlorobenzene-d4
PHL Phenol-d6
2FP 2-Fluorophenol
TBP 2,4,6-Tribromophenol
2CP 2-Chlorophenol-d4

Internal Standards:
DCB 1,4-Dichlorobenzene-d4
NPT Naphthalene-d8
ANT Acenaphthene-d10
PHN Phenanthrene-d10
CRY Chrysene-d12
PRY Perylene-d12

Qualifiers:
D Diluted
↓ Recovery low
↑ Recovery high
na not applicable

* Unless otherwise specified, all parameters are within acceptable limits.

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Semivolatile Calibration Outliers

Instrument: MSE

Date/Time	4/13/99		4/14/99 1027							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol										
2-Methylnaphthalene										
Hexachlorocyclopentadiene		46.2								
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethylphthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										
2,4-Dinitrophenol		36.0								

Semivolatile Calibration Outliers - Page 2

Date/Time	4/13/99		4/14/99 1027							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
4-Chlorophenyl-phenylether										
Fluorene										
4-Nitroaniline										
4,6-Dinitro-2-methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
3,3'-Dichlorobenzidine										
Benzo(a)anthracene										
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate										
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Benzoic acid										
Benzyl alcohol										

Affected Samples:					
	mw-1				
	mw-2d				
	mw-2dms				
	mw-2dmsd				

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Semivolatile Calibration Outliers - Page 3

Date/Time	4/13/99		4/14/99 1027							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
	blind dup									

Corrected Sample Analysis Data Sheets

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLIND DUP

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-4

Sample wt/vol: 900 (g/mL) mL Lab File ID: EC041408

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted:04/13/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	11	U
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	11	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	28	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	28	U

- 2s

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLIND DUP

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-4

Sample wt/vol: 900 (g/mL) mL Lab File ID: EC041408

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted: 04/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	28	U
100-02-7	4-Nitrophenol	28	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
86-73-7	Fluorene	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
100-01-6	4-Nitroaniline	28	U
534-52-1	4,6-Dinitro-2-methylphenol	28	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	28	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
56-55-3	Benzo(a)anthracene	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
218-01-9	Chrysene	11	U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1900**	
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1F

SAMPLE NO.

BLIND DUP

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-4

Sample wt/vol: 900 (g/mL) mL Lab File ID: EC041408

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted:04/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		NONE			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-1

Sample wt/vol: 800 (g/mL) mL Lab File ID: EC041405

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted:04/13/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	12	U
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
100-51-6	Benzyl alcohol	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	2,2'-oxybis(1-Chloropropane)	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	12	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	31	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	31	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: MW-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-1

Sample wt/vol: 800 (g/mL) mL Lab File ID: EC041405

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted: 04/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	31	U
100-02-7	4-Nitrophenol	31	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
86-73-7	Fluorene	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
100-01-6	4-Nitroaniline	31	U
534-52-1	4,6-Dinitro-2-methylphenol	31	U
86-30-6	N-Nitrosodiphenylamine	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	31	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
56-55-3	Benzo(a)anthracene	12	U
91-94-1	3,3'-Dichlorobenzidine	25	U
218-01-9	Chrysene	12	U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**4**	**J**
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1F

SAMPLE NO.

MW-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-1

Sample wt/vol: 800 (g/mL) mL Lab File ID: EC041405

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted:04/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000124-17-4	Ethanol, 2-(2-butoxyethoxy)-	20.16	1400	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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27.					
28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: MW-2D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-2

Sample wt/vol: 900 (g/mL) mL Lab File ID: EC041406

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted:04/13/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	11	U
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	2,2'-oxybis(1-Chloropropane)	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	11	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	28	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	28	U

- 2s

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-2

Sample wt/vol: 900 (g/mL) mL Lab File ID: EC041406

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted:04/13/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	28	U
100-02-7	4-Nitrophenol	28	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
86-73-7	Fluorene	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
100-01-6	4-Nitroaniline	28	U
534-52-1	4,6-Dinitro-2-methylphenol	28	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	28	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
56-55-3	Benzo(a)anthracene	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1F

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-2D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-2

Sample wt/vol: 900 (g/mL) mL Lab File ID: EC041406

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted:04/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		NONE			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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28.					
29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-3

Sample wt/vol: 950 (g/mL) mL Lab File ID: EC041407

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted: 04/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	26	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	26	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-3

Sample wt/vol: 950 (g/mL) mL Lab File ID: EC041407

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted: 04/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	26	U
100-02-7	4-Nitrophenol	26	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	26	U
534-52-1	4,6-Dinitro-2-methylphenol	26	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo(a)anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	21	U
218-01-9	Chrysene	10	U
117-81-7	**bis(2-Ethylhexyl)phthalate**	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-3

Sample wt/vol: 950 (g/mL) mL Lab File ID: EC041407

Level: (low/med) LOW Date Received: 04/09/99

% Moisture: decanted: (Y/N) N Date Extracted:04/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/14/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000420-12-2	Thiirane	11.37	6	J
2.	000124-17-4	Ethanol, 2-(2-butoxyethoxy)-	20.14	330	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for waters are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blank.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Recovery for one surrogate was below control limits in sample MW-1. Since recovery for the second surrogate was within control limits, no data have been qualified based on the deviation. All other surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and the relative percent difference between recoveries were within control limits.

8. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-2D / BLIND DUP	ND	--	--	NA

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 2			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 1			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?			X
Were all positively identified compounds confirmed on a second column?			X

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
MW-1			
MW-2D			
MW-2DMS			
MW-2DMSD			
MW-3			
BLIND DUP			

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

vlj2167

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	1/21/99-1/22/99	4/15/99	4/15/99	4/16/99	4/16/99	4/16/99	4/16/99	
Time:		1900	1945	0125	0211	1838	0019	
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok		ok		ok			
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok	ok		ok		ok	ok	
Aroclor 1254	ok							
Aroclor 1260	ok		ok		ok			
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							
Affected Samples:								

vlj2167

Corrected Sample Analysis Data Sheets

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

BLIND DUP

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-4

Sample wt/vol: 1000 (g/mL) mL Lab File ID: HP9B\B041611

% Moisture: decanted: (Y/N) N Date Received: 04/09/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:04/14/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	0.5	U
11096-82-5	Aroclor-1260	0.5	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: MW-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: HP9B\B041533

% Moisture: decanted: (Y/N) N Date Received: 04/09/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:04/14/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/15/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	0.5	U
11096-82-5	Aroclor-1260	0.5	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: HP9B\B041610

% Moisture: decanted: (Y/N) N Date Received: 04/09/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:04/14/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/16/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	0.5	U
11096-82-5	Aroclor-1260	0.5	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L50263

Matrix: (soil/water) WATER Lab Sample ID: L50263-3

Sample wt/vol: 1000 (g/mL) mL Lab File ID: HP9B\B041535

% Moisture: decanted: (Y/N) N Date Received: 04/09/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:04/14/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/15/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	0.5	U
11096-82-5	**Aroclor-1260**	**0.98**	

FORM I PEST

INORGANIC ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 methods.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

E The reported value is estimated due to the presence of interference.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

S Reported value was determined by the method of standard additions (MSA).

W Post-digestion spike for Furnace-AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.

* Duplicate analysis not within control limits.

\+ Correlation coefficient for MSA is less than 0.995.

Validation qualifiers:

J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for inorganic analyses under NYSASP protocols is as follows. All holding times are measured from validated time of sample receipt (VTSR).

Metals (other than mercury)	180 days
Mercury	26 days
Cyanide	12 days

The technical holding times for inorganic analyses is as follows. All holding times are measured from date of collection.

Metals (other than mercury)	180 days
Mercury	28 days
Cyanide	14 days

All samples were analyzed within specified holding times.

2. Blank Contamination

Quality assurance blanks, i.e., method, field, or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

All calibration and preparation blanks were found to be acceptable, with no analytes detected above the CRDL. Several compounds were, however, detected below the CRDL. Based on the similarity between the blanks and samples, data for copper in samples MW-2D and BLIND DUP should be considered suspect.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All CRDL standard recoveries were within control limits.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

All matrix spike recoveries were within control limits.

4.2 Laboratory Duplicate

All laboratory duplicate results were within control limits.

5. Field Duplicate

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-2D / BLIND DUP	aluminum	240	202	17.2%
	barium	51.2	50.1B	<CRDL
	calcium	150000	150000	0.0%
	copper	3.2B	2.3B	<CRDL
	iron	480	408	16.25
	magnesium	111000	111000	0.05
	manganese	637	629	0.35
	potassium	7790	7720	0.9%
	sodium	122000	131000	7.1%

The duplicate results are acceptable.

6. Laboratory Control Sample (LCS)

All LCS recoveries were within control limits.

7. Serial Dilution

All serial dilution results were acceptable.

8. Furnace QC

No furnace analyses were performed on the samples in this data set.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

10. General Comments

The cyanide fraction for sample BLIND DUP was received at the laboratory at a pH of less than 12. Since the samples were delivered to the laboratory within hours of collection and since the pH was adjusted upon receipt, no data have been qualified based on the deviation.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checksheets

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	X		
Form I to IX			
Are all the Form I through Form IX labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Is the distillation log for cyanides present?	X		
Are pH values listed?	X		
pH for metals analyses <2 (waters)?	X		
pH for cyanide analyses >12 (waters)?		X	
Percent solids calculation present for soils/sediments?			X
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Cyanides	X		
Is the data legible?	X		
Is the data properly labeled?	X		

Inorganic Data Validation Checklist - Page 2

	YES	NO	NA
Holding Times			
Were mercury analyses performed within 28 days?	X		
Were cyanide distillations performed within 14 days?	X		
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Are all "less than IDL" values properly coded with "U"?	X		
Are the correct concentration qualifiers used with final data?	X		
Is a physical description of samples given on Form I's?	X		
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Cyanides?	X		
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?	X		
Cyanide Analysis?	X		
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Cyanides (85-115%)?	X		

	YES	NO	NA
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?	X		
Was a CRDL standard (CRI) analyzed for each ICP run?	X		
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?	X		
Is mid-range standard within control limits for cyanide (80-120%)	X		
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	X		
each batch of digested samples?	X		
each matrix type?	X		
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	

	YES	NO	NA
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each SDG?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?	X		
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?			X
Aqueous			
Are any spike recoveries:			
less than 75%?		X	
greater then 125%?		X	
Soil/Sediment			
Are any spike recoveries:			
less than 75%?			X
greater than 125%?			X
Form VI (Lab Duplicates)			
Present and complete for:			
each SDG?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference $\leq$ ±CRDL)?	X		
If no, are all results outside the control limits flagged with an * on Form I's and VI?			X

	YES	NO	NA
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?		X	
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?		X	
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?			X
Field Duplicates			
Were field duplicates analyzed?	X		
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?		X	
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?		X	
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?			X
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each SDG?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 80%?		X	
greater than 120%?		X	
Solid LCS			
Is LCS "Found" value higher than the control limits?			X
Is LCS "Found" lower than the control limits?			X

	YES	NO	NA
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
Was field blank(s) used for Serial Dilution Analysis?		X	
Are results outside control limit flagged with an "E"" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.			X
Are any % difference values:			
> 10%?		X	
≥100%?		X	
Furnace Atomic Absorbtion (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Were dilutions analyzed for samples with analytical spike recovery less than 40%?			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Form VIII (Method of Standard Addition Results)			
Present?		X	
Was MSA required for any sample but not performed?		X	
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample.		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if greater than CRDL)			X

	YES	NO	NA
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP?		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?		X	
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?			X
< 10%?			X

Corrected Sample Analysis Data Sheets

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

BLIND DUP

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L50263

Matrix (soil/water): Water Lab Sample ID: L50263-4

Level (low/med): LOW Date Received: 04/09/99

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	202			P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	50.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	150000			P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	408			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	111000			P
7439-96-5	Manganese	629			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	7720			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	131000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	11.0	U		P
57-12-5	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-1

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L50263

Matrix (soil/water): Water Lab Sample ID: L50263-1

Level (low/med): LOW Date Received: 04/09/99

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5190			P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	83.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.8	B		P
7440-70-2	Calcium	251000			P
7440-47-3	Chromium	7.8	B		P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	22.0	B		P
7439-89-6	Iron	7390			P
7439-92-1	Lead	2.7	B		P
7439-95-4	Magnesium	92000			P
7439-96-5	Manganese	454			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	6.3	B		P
7440-09-7	Potassium	18000			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	91000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	8.1	B		P
7440-66-6	Zinc	17.2	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: GRAY Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-2D

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L50263

Matrix (soil/water): Water Lab Sample ID: L50263-2

Level (low/med): LOW Date Received: 04/09/99

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	240			P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	51.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	150000			P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	480			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	111000			P
7439-96-5	Manganese	637			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	7790			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	122000			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	11.0	U		P
57-12-5	Cyanide	10.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-3

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L50263

Matrix (soil/water): Water Lab Sample ID: L50263-3

Level (low/med): LOW Date Received: 04/09/99

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3740			P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	126	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.4	B		P
7440-70-2	Calcium	150000			P
7440-47-3	Chromium	7.1	B		P
7440-48-4	Cobalt	3.3	B		P
7440-50-8	Copper	22.5	B		P
7439-89-6	Iron	6390			P
7439-92-1	Lead	3.1			P
7439-95-4	Magnesium	80100			P
7439-96-5	Manganese	773			P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	4.8	B		P
7440-09-7	Potassium	7280			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	48400			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	6.6	B		P
7440-66-6	Zinc	11.4	B		P
57-12-5	Cyanide	10.0	U		C

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Laboratory Narrative

Galson Laboratories

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Mr. John Brussel
Blasland, Bouck & Lee
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Syracuse, NY 13214

RE: NMPC School Street; Project No. 36497.002
SDG L50263

The following package contains the analytical results of the water samples submitted to our laboratory on April 9, 1999. The samples were received intact and under proper chain of custody. The samples were assigned to login and sample delivery group (SDG) L50263.

Sample, Blind Dup, submitted for cyanide analysis was received at pH 7. Upon receipt, 10N sodium hydroxide was added until a pH of greater than 12 was obtained, as required for preservation.

The samples were reported according to ASP Category B guidelines. Sample MW-2D was submitted for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 methods 8260, 8270, 8082, 6010/7000 for TAL metals, and 9010 for cyanide.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklists*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: April 26, 1999

GC/MS VOLATILES PACKAGE REVIEW CHECKLIST

Client: BBL Project: Nimo School St SDG: 450263

	YES	NO	NA
DEC FORMS: Present and Complete	✓		
Hold Times Met	✓		

Comments:

FORM 1A: Present and Complete	✓		
FORM 1E: Present and Complete	✓		
Raw Data Present for All Samples	✓		

Comments:

FORM 2A/B: Present and Complete	✓		
Surrogate Recoveries in Limits		✓	
If No, sample(s) reanalyzed		✓	

Comments: Samples mw-1, Blind-dup, and mw-2msd: BFB slightly above the upper control limit. However, there was nothing detected in the samples so there is no effect on the data.

FORM 3A/B: Present and Complete	✓		
Spike Recoveries in Limits	✓		

Comments:

FORM 4A: Present and Complete	✓		
FORM 5A: Present and Complete	✓		
MDLs: Present and Complete	✓		

GC/MS VOLATILES PACKAGE REVIEW CHECKLIST

Client: BBL Project: Nimo School St SDG: L50263

		YES	NO	NA
FORM 6A:	Present and Complete	✓		
	Calibration(s) Pass	✓		

Comments: 2-CEVE was rerun and raw data is submitted

FORM 7A:	Present and Complete	✓		
	Calibration(s) Pass	✓		

Comments:

FORM 8A:	Present and Complete	✓		
	Internal Std Areas in Limits	✓		
	If Not, Sample(s) Reanalyzed			✓

Comments:

FORM 1A - Method Blanks, MS/MSD/MSB:

	Present and Complete	✓		
	Raw Data Present	✓		
	Method Blanks <MDL	✓		
	If not, Associated Data Flagged " B"			✓

Comments:

INTERNAL CHAIN OF CUSTODY:	Present	✓		
PERCENT MOISTURE SHEET:	Present			✓

SECTION SUPERVISOR: RJ Ditus DATE: 4/20/99

QC REVIEWER: Cynthia M. Mata DATE: 4/20/99

GC/MS Semivolatile Package Review Checklist

Client : BBL Project : NIMO SCHOOL ST. SDG : L50263

		YES	NO	NA
DEC Forms	present and complete	✓		
	hold times met	✓		

comments :

Internal Chain-of-Custody	present and complete	✓		
Form 2C/2D	present and complete	✓		
	surrogate recoveries within limits	✓		
	sample(s) reanalyzed			✓

comments :

Form 3C/3D	present and complete	✓		
	spike recoveries within limits	✓*		

comments : * 4-Nitrophenol recovery (81%) in the blank spike was above control limits. However, this compound was not detected in the associated samples.

Form 4B	present and complete	✓		
Form 5B	present and complete	✓		
IDLs	present and complete	✓		
Sample Form 1B/1C/1F	present and complete	✓		
	raw data present for all samples	✓		

comments :

Form 6B/6C	present and complete	✓		
	calibration(s) pass	✓		

comments :

GC/MS Semivolatile Package Review Checklist

Client : BBL Project : NIMO/SCHOOL ST. SDG : L50263

		YES	NO	NA
Form 7B/7C	present and complete	✓		
	calibration(s) pass	✓	*	

comments : 4/15/99 CCCheck - Calibration Check Compound Phenol exceeded maximum %D due to increased response. Data not effected.

Form 8B/8C	present and complete	✓		
	internal standard areas within limits	✓		
	sample(s) reanalyzed			✓

comments :

QC Form 1B/1C/1F	present and complete	✓		
	raw data present for all samples	✓		
	method blank results <MDL		✓	
	associated results flagged "B"			✓

comments :

Calculation Sheet	present	✓		
Instrument Logs	present and complete	✓		
Extraction Logs	present and complete	✓		
Moisture Sheet	present and complete			✓

additional comments :

Section Supervisor : Carmen V. Kappil Date : 4/26/99

QC Reviewer : Lynda Lee Mata Date : 4/26/99

Method 8082 PCB Package Review Checklist

Client BBL **Project** Nino - School **SDG** L50263

		Yes	No	NA
DEC Forms:	Present and complete	✓		
	Holding times met	✓		

Comments: _____

_____

Internal Chain of Custody: Present		✓		
Form 1D:	Present and complete	✓		
	Raw Data present for all samples	✓		
	Non-detects lined-out and initialed	✓		

Comments: _____

_____

Form 2E:	Present and complete	✓		
	Surrogate Recoveries within limits	✓		

Comments: _____

_____

Form 3E:	Present and complete	✓		
	Spike Recoveries within limits	✓		

Comments: _____

_____

C

Method 8082 PCB Package Review Checklist

Client BBL Project Nino-School . SDG L50263

		Yes	No	NA
Form 4C:	Present and complete	✓		
IDLs:	Present and complete	✓		
GC Parameters:	Present and complete	✓		
Form 6E:	Present and complete	✓		
	% RSD within limits (≤ 20 %)	✓		

Comments: _____

_____

Form 7:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Form 8:	Present and complete	✓		
	% D within limits	✓		
Form 9:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Calibration Data:	Present and complete	✓		

Method 8082 PCB Package Review Checklist

Client BBL Project Nimo - School St. SDG L50263

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓

Comment: _____

Calculation Formula:	Present	✓		
Extraction Logs:	Present	✓		
GPC/Calibration Logs:	Present			✓
% Moisture Calculation:	Present			✓
Calibration and Spike Standards Log:	Present	✓		

Section Supervisor: Jammes V. Kappil Date: 4/26/99

QC Reviewer: [signature] Date: 4/26/99

INORGANIC PACKAGE REVIEW CHECKLIST

CLIENT BBL PROJECT Nimo/School St. SDG L502463

	YES	NO	NA
DEC FORMS: PRESENT AND COMPLETE	X		
HOLD TIMES MET	X		
COMMENTS:			
COVER PAGE: PRESENT AND COMPLETE	X		
METALS CHAIN OF CUSTODY PRESENT	X		
FORM 1: PRESENT AND COMPLETE	X		
COMMENTS:			
FORM 2: PRESENT AND COMPLETE	X		
ICV/CCV RECOVERIES WITHIN LIMITS	X		
COMMENTS:			
FORM 2B: PRESENT AND COMPLETE	X		
RECOVERIES WITHIN 80-120%	X		
Not required for Al, Ba, Ca, Fe, Mg, Na, K			
COMMENTS:			
FORM 3: PRESENT AND COMPLETE	X		
ICB/CCBs LESS THAN CRDL	X		
ALL PBs PRESENT AND <CRDL	X		
COMMENTS:			
FORM 4: PRESENT AND COMPLETE	X		
RECOVERIES WITHIN 80-120%	X		
Not required for Ca, Mg, K and Na			
COMMENTS:			
FORM 5: PRESENT AND COMPLETE	X		
IF SR<4XSA, RECOVERIES WITHIN 75-125%	X		
Not required for Ca, Mg, K and Na for all matrices, and Al, Fe for soils.			
IF NO, POST SPIKES PERFORMED			X
ASSOCIATED RESULTS FLAGGED "N"			X
COMMENTS:			

INORGANIC PACKAGE REVIEW CHECKLIST

CLIENT BBL PROJECT Nina/School SDG L20763

	YES	NO	NA
FORM 6: PRESENT AND COMPLETE	X		
IF CRDL < SR < 5XCRDL, |SR-DR| < CRDL	X		
IF SR > 5XCRDL, RPD <20%	X		
IF NO, ASSOCIATED RESULTS FLAGGED "*"			X
COMMENTS:			
FORM 7: PRESENT AND COMPLETE	X		
RECOVERIES WITHIN 80-120% FOR WATER	X		
RECOVERIES WITHIN LIMITS FOR SOILS			X
COMMENTS:			
FORM 9: PRESENT AND COMPLETE	X		
IF SR > 50X IDL; %D < 10%	X		
IF NO, ASSOCIATED RESULTS FLAGGED "E"			X
COMMENTS:			
FORM 10: PRESENT AND COMPLETE	X		
FORM 11: PRESENT AND COMPLETE	X		
FORM 12: PRESENT AND COMPLETE	X		
FORM 13: PRESENT AND COMPLETE	X		
COMMENTS:			
FORM 14: PRESENT AND COMPLETE	X		
COMMENTS:			
RAW DATA: PRESENT FOR ALL SAMPLES	X		
CALIBRATION STANDARDS LOG: PRESENT	X		
PERCENT MOISTURE CALCULATION: PRESENT			X

SECTION SUPERVISOR: Karen S. Becker DATE: 4.19.99

QC REVIEWER: [signature] DATE: 4/21/99

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L50263 SDG : L50263 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1991														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbamates Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN- Total	CN- Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
MW-1	L50263-1	X	X	X								X		1		
MW-2D	L50263-2	X	X	X								X		1		
MW-3	L50263-3	X	X	X								X		1		
BLIND DUP	L50263-4	X	X	X								X		1		
MW-2DMS	L50263-5	X	X	X								X		1		
MW-2DMSD	L50263-6	X	X	X								X		1		
TRIP BLANK	L50263-7	X														
MSB/LCS	L50263-8	X	X	X								X		1		

METALS LIST 1 : HG,AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
BLIND DUP L50263-4	Water	09-APR-99	09-APR-99	NA	14-APR-99
MW-1 L50263-1	Water	09-APR-99	09-APR-99	NA	14-APR-99
MW-2D L50263-2	Water	09-APR-99	09-APR-99	NA	14-APR-99
MW-2DMS L50263-5	Water	09-APR-99	09-APR-99	NA	14-APR-99-
MW-2DMSD L50263-6	Water	09-APR-99	09-APR-99	NA	14-APR-99
MW-3 L50263-3	Water	09-APR-99	09-APR-99	NA	14-APR-99
TRIP BLANK L50263-7	Water	09-APR-99	09-APR-99	NA	14-APR-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
BLIND DUP L50263-4	WATER	SW846 8260	NA		1
MW-1 L50263-1	WATER	SW846 8260	NA		1
MW-2D L50263-2	WATER	SW846 8260	NA		1
MW-2DMS L50263-5	WATER	SW846 8260	NA		1
MW-2DMSD L50263-6	WATER	SW846 8260	NA		1
MW-3 L50263-3	WATER	SW846 8260	NA		1
TRIP BLANK L50263-7	WATER	SW846 8260	NA		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
BLIND DUP L50263-4	Water	09-APR-99	09-APR-99	13-APR-99	14-APR-99
MW-1 L50263-1	Water	09-APR-99	09-APR-99	13-APR-99	14-APR-99
MW-2D L50263-2	Water	09-APR-99	09-APR-99	13-APR-99	14-APR-99
MW-2DMS L50263-5	Water	09-APR-99	09-APR-99	13-APR-99	14-APR-99
MW-2DMSD L50263-6	Water	09-APR-99	09-APR-99	13-APR-99	14-APR-99
MW-3 L50263-3	Water	09-APR-99	09-APR-99	13-APR-99	14-APR-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
BLIND DUP L50263-4	WATER	SW846 8270	SW846/3520 /8270	None	1
MW-1 L50263-1	WATER	SW846 8270	SW846/3520 /8270		1
MW-2D L50263-2	WATER	SW846 8270	SW846/3520 /8270		1
MW-2DMS L50263-5	WATER	SW846 8270	SW846/3520 /8270		1
MW-2DMSD L50263-6	WATER	SW846 8270	SW846/3520 /8270		1
MW-3 L50263-3	WATER	SW846 8270	SW846/3520 /8270		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
BLIND DUP L50263-4	WATER	09-APR-99	09-APR-99	14-APR-99	16-APR-99
MW-1 L50263-1	WATER	09-APR-99	09-APR-99	14-APR-99	15-APR-99
MW-2D L50263-2	WATER	09-APR-99	09-APR-99	14-APR-99	16-APR-99
MW-2DMS L50263-5	WATER	09-APR-99	09-APR-99	14-APR-99	16-APR-99
MW-2DMSD L50263-6	WATER	09-APR-99	09-APR-99	14-APR-99	16-APR-99
MW-3 L50263-3	WATER	09-APR-99	09-APR-99	14-APR-99	15-APR-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
BLIND DUP L50263-4	Water	8080 NYSDEC ASP CAT B	SW846/3510	ACID ALUMINA	1
MW-1 L50263-1	Water		SW846/3510		1
MW-2D L50263-2	Water		SW846/3510		1
MW-2DMS L50263-5	Water		SW846/3510		1
MW-2DMSD L50263-6	Water		SW846/3510		1
MW-3 L50263-3	Water		SW846/3510		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE REC'D AT LAB	DATE ANALYZED
BLIND DUP L50263-4	WATER	TAL METALS CN	04/09/99	ICP : 04/14/99 Hg : 04/19/99 CN : 04/14/99
MW-1 L50263-1	WATER	TAL METALS CN	04/09/99	ICP : 04/14/99 Hg : 04/19/99 CN : 04/14/99
MW-2D L50263-2	WATER	TAL METALS CN	04/09/99	ICP : 04/14/99 Hg : 04/19/99 CN : 04/14/99
MW-2DMS L50263-5S	WATER	TAL METALS CN	04/09/99	ICP : 04/14/99 Hg : 04/19/99 CN : 04/14/99
MW-2DMSD L50263-6D	WATER	TAL METALS CN	04/09/99	ICP : 04/14/99 Hg : 04/19/99 CN : 04/14/99
MW-3 L50263-3	WATER	TAL METALS CN	04/09/99	ICP : 04/14/99 Hg : 04/19/99 CN : 04/14/99

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L50263	4/9/99	1995	MW-1	water	no	no	no	yes	VOA - ms[2], cal[3], surr[2] BNA - cal, msb[2] PCB - surr[2]
L50263	4/9/99	1995	MW-2D	water	no	no	yes	yes	VOA - ms[2], cal[3] BNA - cal, msb[2]
L50263	4/9/99	1995	MW-3	water	no	no	yes	yes	VOA - ms[2], cal[3] BNA - cal, msb[2]
L50263	4/9/99	1995	BLIND DUP	water	no	no	yes	no	VOA - ms[2], cal[3], surr[2] BNA - cal, msb[2] TAL - pH[2]
L50263	--	1995	TRIP BLANK	water	no	--	--	--	VOA - cal[3]

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

SDG - L51707
Samples collected 6/4/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L51707

PCB ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L51707 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
MW-3[1]	L51707-1	water	06/04/99			x		
MW-3(F)	L51707-5	water	06/04/99			x		
DUP-1	L51707-4	water	06/04/99			x		

1 MS/MSD analysis performed on sample

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for waters are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blank.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between recoveries were within control limits.

8. Matrix Spike Blank

The matrix spike blank recovery was within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-3/DUP-1	ND	--	--	NA

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

10. Miscellaneous Comments

No confirmation column data was provided for either samples, standards, blanks, or spikes. Since all samples were non-detect, no action has been taken.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 4			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 2			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?			X

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
MW-3			
MW-3 MS			
MW-3 MSD			
MW-3(F)			
DUP-1			

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	5/26/99-5/27/99	6/07/99	6/07/99					
Time:		1608	2124					
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok	ok	ok					
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok							
Aroclor 1254	ok							
Aroclor 1260	ok	ok	ok					
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							
Affected Samples:								

Corrected Sample Analysis Data Sheets

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: DUP-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L51707

Matrix: (soil/water) WATER Lab Sample ID: L51707-4

Sample wt/vol: 1000 (g/mL) mL Lab File ID: HP9B\B060723

% Moisture: decanted: (Y/N) N Date Received: 06/04/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/07/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/07/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	0.5	U
11096-82-5	Aroclor-1260	0.5	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L51707

Matrix: (soil/water) WATER Lab Sample ID: L51707-1

Sample wt/vol: 1000 (g/mL) mL Lab File ID: HP9B\B060720

% Moisture: decanted: (Y/N) N Date Received: 06/04/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/07/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/07/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	0.5	U
11096-82-5	Aroclor-1260	0.5	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3 (F)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L51707

Matrix: (soil/water) WATER Lab Sample ID: L51707-5

Sample wt/vol: 1000 (g/mL) mL Lab File ID: HP9B\B060724

% Moisture: decanted: (Y/N) N Date Received: 06/04/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/07/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 06/07/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	0.5	U
11096-82-5	Aroclor-1260	0.5	U

FORM I PEST

Laboratory Narrative

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Mr. John Brussel
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC School Street; Project No. 36497.002
SDG L51707

The following package contains the analytical results of the water samples submitted to our laboratory on June 4, 1999. The samples were received intact and under proper chain of custody. The samples were assigned to login and sample delivery group (SDG) L51707.

The samples were reported according to ASP Category B guidelines. Sample MW-3 was submitted for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 method 8082 for PCBs.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklist*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: June 18, 1999

Method 8082 PCB Package Review Checklist

Client BBL Project Nimo/Schools SDG L51707

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓

Comment: _____

_____

Calculation Formula:	Present	✓		
Extraction Logs:	Present	✓		
GPC/Calibration Logs:	Present			✓
% Moisture Calculation:	Present			✓
Calibration and Spike Standards Log:	Present	✓		

Section Supervisor: Carmen V. Kappil Date: 06/17/99

QC Reviewer: _____ Date: _____

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L51707 SDG : L51707 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1991														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbamates Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
MW-3	L51707-1			X												
MW-3MS	L51707-2			X												
MW-3MSD	L51707-3			X												
DUP-1	L51707-4			X												
MW-3 (F)	L51707-5			X												
MSB	L51707-6			X												

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
DUP-1 L51707-4	WATER	04-JUN-99	04-JUN-99	07-JUN-99	07-JUN-99
MW-3 L51707-1	WATER	04-JUN-99	04-JUN-99	07-JUN-99	07-JUN-99
MW-3 (F) L51707-5	WATER	04-JUN-99	04-JUN-99	07-JUN-99	07-JUN-99
MW-3MS L51707-2	WATER	04-JUN-99	04-JUN-99	07-JUN-99	07-JUN-99
MW-3MSD L51707-3	WATER	04-JUN-99	04-JUN-99	07-JUN-99	07-JUN-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
DUP-1 L51707-4	Water	8080 NYSDEC ASP CAT B	SW846/3510	ACID/BASE ALUMINA	1
MW-3 L51707-1	Water	"	SW846/3510	"	1
MW-3 (F) L51707-5	Water	"	SW846/3510	"	1
MW-3MS L51707-2	Water	"	SW846/3510	"	1
MW-3MSD L51707-3	Water	"	SW846/3510	"	1

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L51707	06/04/99	1995	MW-3	water	--	--	yes	--	
L51707	06/04/99	1995	MW-3(F)	water	--	--	yes	--	
L51707	06/04/99	1995	DUP-1	water	--	--	yes	--	

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

SDG - L55984
Samples collected 11/22/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L55984

PCB ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L55984 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
SS-19	L55984-2	soil	11/22/99			x		
SS-20	L55984-3	soil	11/22/99			x		
SS-21	L55984-12	soil	11/22/99			x		
SS-22	L55984-5	soil	11/22/99			x		
SS-23	L55984-4	soil	11/22/99			x		
SS-24[1]	L55984-8	soil	11/22/99			x		
SS-25	L55984-6	soil	11/22/99			x		
SS-27	L55984-7	soil	11/22/99			x		
SS-28	L55984-9	soil	11/22/99			x		
TP-21	L55984-13	subsurface soil	11/22/99			x		
DUP-1	L55984-1	soil	11/22/99			x		

1 MS/MSD analysis performed on sample

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blank.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Surrogates were diluted beyond the range of detection in the majority of the samples, as noted on the attached summary table. No data have been qualified based on diluted surrogates.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

Due to the high concentration of Aroclor 1260 present in the unspiked sample (greater than 10 times the spike concentration), no matrix spike/matrix spike duplicate recoveries for this Aroclor could be calculated. The laboratory reported zero percent recovery for Aroclor 1016. Manual calulations, however, showed the Aroclor 1016 recoveries to be within control limits.

8. Matrix Spike Blank

The matrix spike blank recovery was within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SS-25/DUP-1	Aroclor 1260	7950	6990	6.6%

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable. However, based on the results of a field duplicate included in a later SDG, Aroclor 1260 data for all subsurface soil samples have been qualified as estimated.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?	X		
If yes, were the samples reanalyzed?		X	
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
2 out of 4			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 2			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?	X		
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
SS-19		D	D
SS-20			
SS-21		D	D
SS-22			
SS-23			
SS-24		D	D
SS-24 MS		D	D
SS-24 MSD		D	D
SS-25		D	D
SS-27		D	D
SS-28		D	D
TP-21			
DUP-1		D	D

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	5/26/99-5/27/99	12/1/99	12/1/99	12/1/99	12/1/99			
Time:		0210	0946	1013	1704			
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok	ok	ok	ok	ok			
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok							
Aroclor 1254	ok							
Aroclor 1260	ok	ok	ok	ok	ok			
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							
Affected Samples:								

Corrected Sample Analysis Data Sheets

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

DUP-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-1

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\1201B002

% Moisture: 8 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	900	UD
11104-28-2	Aroclor-1221	900	UD
11141-16-5	Aroclor-1232	900	UD
53469-21-9	Aroclor-1242	900	UD
12672-29-6	Aroclor-1248	900	UD
11097-69-1	Aroclor-1254	900	UD
11096-82-5	**Aroclor-1260**	**7000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-19

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-2

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\1201B014

% Moisture: 5 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 400.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	7000	UD
11104-28-2	Aroclor-1221	7000	UD
11141-16-5	Aroclor-1232	7000	UD
53469-21-9	Aroclor-1242	7000	UD
12672-29-6	Aroclor-1248	7000	UD
11097-69-1	Aroclor-1254	7000	UD
11096-82-5	**Aroclor-1260**	**74000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SS-20

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-3

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1201B013

% Moisture: 13 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	19	U
11104-28-2	Aroclor-1221	19	U
11141-16-5	Aroclor-1232	19	U
53469-21-9	Aroclor-1242	19	U
12672-29-6	Aroclor-1248	19	U
11097-69-1	Aroclor-1254	19	U
11096-82-5	**Aroclor-1260**	**100**	

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SS-21

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-12

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1201B010

% Moisture: 6 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	880	UD
11104-28-2	Aroclor-1221	880	UD
11141-16-5	Aroclor-1232	880	UD
53469-21-9	Aroclor-1242	880	UD
12672-29-6	Aroclor-1248	880	UD
11097-69-1	Aroclor-1254	880	UD
11096-82-5	**Aroclor-1260**	**4700**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-22

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-5

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\1201B012

% Moisture: 12 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	76	UD
11104-28-2	Aroclor-1221	76	UD
11141-16-5	Aroclor-1232	76	UD
53469-21-9	Aroclor-1242	76	UD
12672-29-6	Aroclor-1248	76	UD
11097-69-1	Aroclor-1254	76	UD
11096-82-5	**Aroclor-1260**	**540**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-23

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-4

Sample wt/vol: 31 (g/mL) g Lab File ID: HP9B\1130B042

% Moisture: 9 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	18	U
11104-28-2	Aroclor-1221	18	U
11141-16-5	Aroclor-1232	18	U
53469-21-9	Aroclor-1242	18	U
12672-29-6	Aroclor-1248	18	U
11097-69-1	Aroclor-1254	18	U
11096-82-5	**Aroclor-1260**	**43**	

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SS-24

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-8

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1201B006

% Moisture: 8 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	180	UD
11104-28-2	Aroclor-1221	180	UD
11141-16-5	Aroclor-1232	180	UD
53469-21-9	Aroclor-1242	180	UD
12672-29-6	Aroclor-1248	180	UD
11097-69-1	Aroclor-1254	180	UD
11096-82-5	**Aroclor-1260**	**2600**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-25

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-6

Sample wt/vol: 30.3 (g/mL) g Lab File ID: HP9B\1201B004

% Moisture: 12 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	940	UD
11104-28-2	Aroclor-1221	940	UD
11141-16-5	Aroclor-1232	940	UD
53469-21-9	Aroclor-1242	940	UD
12672-29-6	Aroclor-1248	940	UD
11097-69-1	Aroclor-1254	940	UD
11096-82-5	**Aroclor-1260**	**8000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-27

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-7

Sample wt/vol: 30.5 (g/mL) g Lab File ID: HP9B\1201B005

% Moisture: 11 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	920	UD
11104-28-2	Aroclor-1221	920	UD
11141-16-5	Aroclor-1232	920	UD
53469-21-9	Aroclor-1242	920	UD
12672-29-6	Aroclor-1248	920	UD
11097-69-1	Aroclor-1254	920	UD
11096-82-5	**Aroclor-1260**	**5700**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-28

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-9

Sample wt/vol: 30.9 (g/mL) g Lab File ID: HP9B\1201B007

% Moisture: 13 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	930	UD
11104-28-2	Aroclor-1221	930	UD
11141-16-5	Aroclor-1232	930	UD
53469-21-9	Aroclor-1242	930	UD
12672-29-6	Aroclor-1248	930	UD
11097-69-1	Aroclor-1254	930	UD
11096-82-5	**Aroclor-1260**	**9300**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TP-21

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L55984

Matrix: (soil/water) SOIL Lab Sample ID: L55984-13

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1201B011

% Moisture: 8 decanted: (Y/N) N Date Received: 11/22/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	90	UD
11104-28-2	Aroclor-1221	90	UD
11141-16-5	Aroclor-1232	90	UD
53469-21-9	Aroclor-1242	90	UD
12672-29-6	Aroclor-1248	90	UD
11097-69-1	Aroclor-1254	90	UD
11096-82-5	**Aroclor-1260**	**960**	**D**

FORM I PEST

Laboratory Narrative

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Mr. Mike Jones
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC School Street; Project No. 36494
SDG L55984

The following package contains the analytical results of the soil samples submitted to our laboratory on November 22, 1999. The samples were received intact and under proper chain of custody. The temperature of the samples was checked upon receipt. The sample temperature, as recorded with a temperature gun, was 2.1°C. The samples were assigned to login and sample delivery group (SDG) L55984.

The samples were reported according to ASP Category B guidelines. Sample SS-24 was submitted for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 method 8082 for PCBs.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklist*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: December 14, 1999

Method 8082 PCB Package Review Checklist

Client BBL **Project** Nimo(Scott) **SDG** L5524

		Yes	No	NA
DEC Forms:	Present and complete	✓		
	Holding times met	✓		

Comments: _____

Internal Chain of Custody: Present ✓

Form 1D:	Present and complete	✓		
	Raw Data present for all samples	✓		
	Non-detects lined-out and initialed	✓		

Comments: _____

Form 2E:	Present and complete	✓		
	Surrogate Recoveries within limits	✓		

Comments: _____

Form 3E:	Present and complete	✓		
	Spike Recoveries within limits		✓	

Comments: No recovery of 4016 and high recovery of 4032 due to high concentration of aroclor in sample SS-24.

Method 8082 PCB Package Review Checklist

Client FBI Project Windchool St. SDG L55984

		Yes	No	NA
Form 4C:	Present and complete	✓		
IDLs:	Present and complete	✓		
GC Parameters:	Present and complete	✓		
Form 6E:	Present and complete	✓		
	% RSD within limits (≤ 20 %)	✓		

Comments: _____

_____

Form 7:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Form 8:	Present and complete	✓		
	% D within limits	✓		
Form 9:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Calibration Data:	Present and complete	✓		

Method 8082 PCB Package Review Checklist

Client BBL Project NIMO/SCHOOL SDG L33584

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓

Comment: _____

Calculation Formula:	Present	✓		
Extraction Logs:	Present	✓		
GPC/Calibration Logs:	Present			✓
% Moisture Calculation:	Present	✓		
Calibration and Spike Standards Log:	Present	✓		

Section Supervisor: Carmen V. Kappil Date: 12/13/99

QC Reviewer: Brad W. Yates Date: 12/14/99

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L55984 SDG : L55984 MATRIX : Soil

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbamates Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
DUP-1	L55984-1			X												
SS-19	L55984-2			X												
SS-20	L55984-3			X												
SS-23	L55984-4			X												
SS-22	L55984-5			X												
SS-25	L55984-6			X												
SS-27	L55984-7			X												
SS-24	L55984-8			X												
SS-28	L55984-9			X												
SS-24MS	L55984-10			X												
SS-24MSD	L55984-11			X												
SS-21	L55984-12			X												
TP-21	L55984-13			X												
MSB	L55984-14			X												

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
DUP-1 L55984-1	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-19 L55984-2	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-20 L55984-3	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-21 L55984-12	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-22 L55984-5	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-23 L55984-4	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-24 L55984-8	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-24MS L55984-10	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-24MSD L55984-11	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-25 L55984-6	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-27 L55984-7	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
SS-28 L55984-9	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99
TP-21 L55984-13	SOIL	22-NOV-99	22-NOV-99	23-NOV-99	01-DEC-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
DUP-1 L55984-1	Soil	8080 ANALYTICAL SUITE B	SW846/3550 /8082	ACID WASH ALUMINA	50
SS-19 L55984-2	Soil	"	SW846/3550 /8082	"	400
SS-20 L55984-3	Soil	"	SW846/3550 /8082	"	1
SS-21 L55984-12	Soil	"	SW846/3550 /8082	"	50
SS-22 L55984-5	Soil	"	SW846/3550 /8082	"	4
SS-23 L55984-4	Soil	"	SW846/3550 /8082	"	1
SS-24 L55984-8	Soil	"	SW846/3550 /8082	"	10
SS-24MS L55984-10	Soil	"	SW846/3550 /8082	"	50
SS-24MSD L55984-11	Soil	"	SW846/3550 /8082	"	50
SS-25 L55984-6	Soil	"	SW846/3550 /8082	"	50
SS-27 L55984-7	Soil	"	SW846/3550 /8082	"	50
SS-28 L55984-9	Soil	"	SW846/3550 /8082	"	50
TP-21 L55984-13	Soil	"	SW846/3550 /8082	"	5

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L55984	11/22/99	1995	SS-19	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	SS-20	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	SS-21	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	SS-22	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	SS-23	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	SS-24[1]	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	SS-25	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	SS-27	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	SS-28	soil	--	--	no	--	PCB - ms[2]
L55984	11/22/99	1995	TP-21	soil	--	--	no	--	PCB - ms[2], f.dup
L55984	11/22/99	1995	DUP-1	soil	--	--	no	--	PCB - ms[2]

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

SDG - L56004
Samples collected 11/22/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L56004

PCB ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L56004 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
SS-15[1]	L56004-12	soil	11/22/99			x		
SS-16	L56004-8	soil	11/22/99			x		
SS-17	L56004-4	soil	11/22/99			x		
SS-18	L56004-6	soil	11/22/99			x		
SS-26	L56004-2	soil	11/22/99			x		
TP-15	L56004-11	subsurface soil	11/22/99			x		
TP-16	L56004-5	subsurface soil	11/22/99			x		
TP-17	L56004-10	subsurface soil	11/22/99			x		
TP-18	L56004-7	subsurface soil	11/22/99			x		
TP-26	L56004-9	subsurface soil	11/22/99			x		
DUP-2	L56004-3	subsurface soil	11/22/99			x		
RB-1	L56004-1	water	11/22/99			x		

1 MS/MSD analysis performed on sample

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 days from sample collection to extraction and 40 days to analysis and for waters are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were reported in the method or rinse blanks.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Surrogates were diluted beyond the range of detection in samples SS-17, SS-18, SS-26, TP-17 and TP-26. All other surrogate recoveries were within control limits. No data have been qualified based on diluted surrogates.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between recoveries were within control limits.

8. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SS-18/DUP-2	Aroclor 1260	8600	85	NA

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are unacceptable. Aroclor 1260 data for all subsurface soil samples have been qualified as estimated based on the results.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 4			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 2			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?		X	
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
SS-15			
SS-15 MS			
SS-15 MSD			
SS-16			
SS-17		D	D
SS-18		D	D
SS-26		D	D
TP-15			
TP-16			
TP-17		D	D
TP-18			
TP-26		D	D
DUP-2			
RB-1			

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	5/26/99-5/27/99	11/29/99	11/29/99	11/29/99	11/29/99	11/29/99	11/30/99	11/30/99
Time:		1325	1348	1949	2033	0449	1034	1131
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok		ok		ok		ok	
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok	ok		ok		ok		
Aroclor 1254	ok							ok
Aroclor 1260	ok		ok		ok		ok	
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							
Affected Samples:								

PCB Calibration Summary - Page 2

Instrument: HP9B
Column: DB-608

Date:		11/30/99	12/1/99	12/1/99				
Time:		1748	0148	0210				
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016		ok		ok				
Aroclor 1221								
Aroclor 1232								
Aroclor 1242								
Aroclor 1248								
Aroclor 1254			ok					
Aroclor 1260		ok		ok				
Tetrachloro-m-xylene								
Decachlorobiphenyl								
Affected Samples:								

Corrected Sample Analysis Data Sheets

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: DUP-2

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-3

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1129B053

% Moisture: 22 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	21	U
11104-28-2	Aroclor-1221	21	U
11141-16-5	Aroclor-1232	21	U
53469-21-9	Aroclor-1242	21	U
12672-29-6	Aroclor-1248	21	U
11097-69-1	Aroclor-1254	21	U
11096-82-5	**Aroclor-1260**	**85**	J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-15

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-12

Sample wt/vol: 30.8 (g/mL) g Lab File ID: HP9B\1130B012

% Moisture: 15 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	95	UD
11104-28-2	Aroclor-1221	95	UD
11141-16-5	Aroclor-1232	95	UD
53469-21-9	Aroclor-1242	95	UD
12672-29-6	Aroclor-1248	95	UD
11097-69-1	Aroclor-1254	95	UD
11096-82-5	**Aroclor-1260**	**670**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SS-16

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-8

Sample wt/vol: 30.3 (g/mL) g Lab File ID: HP9B\1130B017

% Moisture: 12 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	75	UD
11104-28-2	Aroclor-1221	75	UD
11141-16-5	Aroclor-1232	75	UD
53469-21-9	Aroclor-1242	75	UD
12672-29-6	Aroclor-1248	75	UD
11097-69-1	Aroclor-1254	75	UD
11096-82-5	**Aroclor-1260**	**640**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-17

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-4

Sample wt/vol: 30 (g/mL) g Lab File ID: HP9B\1130B008

% Moisture: 14 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	1900	UD
11104-28-2	Aroclor-1221	1900	UD
11141-16-5	Aroclor-1232	1900	UD
53469-21-9	Aroclor-1242	1900	UD
12672-29-6	Aroclor-1248	1900	UD
11097-69-1	Aroclor-1254	1900	UD
11096-82-5	**Aroclor-1260**	**16000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-18

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-6

Sample wt/vol: 30.7 (g/mL) g Lab File ID: HP9B\1130B020

% Moisture: 13 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	940	UD
11104-28-2	Aroclor-1221	940	UD
11141-16-5	Aroclor-1232	940	UD
53469-21-9	Aroclor-1242	940	UD
12672-29-6	Aroclor-1248	940	UD
11097-69-1	Aroclor-1254	940	UD
11096-82-5	**Aroclor-1260**	**8600**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SS-26

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-2

Sample wt/vol: 30.3 (g/mL) g Lab File ID: HP9B\1130B007

% Moisture: 10 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	370	UD
11104-28-2	Aroclor-1221	370	UD
11141-16-5	Aroclor-1232	370	UD
53469-21-9	Aroclor-1242	370	UD
12672-29-6	Aroclor-1248	370	UD
11097-69-1	Aroclor-1254	370	UD
11096-82-5	**Aroclor-1260**	**4100**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: TP-15

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-11

Sample wt/vol: 30.4 (g/mL) g Lab File ID: HP9B\1130B018

% Moisture: 13 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	76	UD
11104-28-2	Aroclor-1221	76	UD
11141-16-5	Aroclor-1232	76	UD
53469-21-9	Aroclor-1242	76	UD
12672-29-6	Aroclor-1248	76	UD
11097-69-1	Aroclor-1254	76	UD
11096-82-5	**Aroclor-1260**	**460**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: TP-16

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-5

Sample wt/vol: 30.8 (g/mL) g Lab File ID: HP9B\1130B016

% Moisture: 21 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	41	UD
11104-28-2	Aroclor-1221	41	UD
11141-16-5	Aroclor-1232	41	UD
53469-21-9	Aroclor-1242	41	UD
12672-29-6	Aroclor-1248	41	UD
11097-69-1	Aroclor-1254	41	UD
11096-82-5	**Aroclor-1260**	**340**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: TP-17

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-10

Sample wt/vol: 30 (g/mL) g Lab File ID: HP9B\1130B019

% Moisture: 16 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 400.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	7900	UD
11104-28-2	Aroclor-1221	7900	UD
11141-16-5	Aroclor-1232	7900	UD
53469-21-9	Aroclor-1242	7900	UD
12672-29-6	Aroclor-1248	7900	UD
11097-69-1	Aroclor-1254	7900	UD
11096-82-5	**Aroclor-1260**	**66000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TP-18

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-7

Sample wt/vol: 30 (g/mL) g Lab File ID: HP9B\1129B057

% Moisture: 23 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	22	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	22	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	**Aroclor-1260**	**98**	J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TP-26

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L56004

Matrix: (soil/water) SOIL Lab Sample ID: L56004-9

Sample wt/vol: 30.5 (g/mL) g Lab File ID: HP9B\1130B009

% Moisture: 13 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/24/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/30/99

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	1900	UD
11104-28-2	Aroclor-1221	1900	UD
11141-16-5	Aroclor-1232	1900	UD
53469-21-9	Aroclor-1242	1900	UD
12672-29-6	Aroclor-1248	1900	UD
11097-69-1	Aroclor-1254	1900	UD
11096-82-5	**Aroclor-1260**	**23000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: RB-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56004

Matrix: (soil/water) WATER Lab Sample ID: L56004-1

Sample wt/vol: 950 (g/mL) mL Lab File ID: HP9B\1129B018

% Moisture: decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
12674-11-2	Aroclor-1016	0.05	U
11104-28-2	Aroclor-1221	0.05	U
11141-16-5	Aroclor-1232	0.05	U
53469-21-9	Aroclor-1242	0.05	U
12672-29-6	Aroclor-1248	0.05	U
11097-69-1	Aroclor-1254	0.05	U
11096-82-5	Aroclor-1260	0.05	U

FORM I PEST

Laboratory Narrative

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
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www.galsonlabs.com

Mr. Mike Jones
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC School Street; Project No. 36494
SDG L56004

The following package contains the analytical results of the soil samples and rinse blank submitted to our laboratory on November 23, 1999. The samples were received intact and under proper chain of custody. The temperature of the samples was checked upon receipt. The sample temperature, as recorded with a temperature gun, was 0.8°C. The samples were assigned to login and sample delivery group (SDG) L56004.

The samples were reported according to ASP Category B guidelines. Sample SS-15 was submitted for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 method 8082 for PCBs.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklist*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: December 14, 1999

Method 8082 PCB Package Review Checklist

Client EBL **Project** Nimo/School St **SDG** L36804

		Yes	No	NA
DEC Forms:	Present and complete	✓		
	Holding times met	✓		

Comments: _____

_____

Internal Chain of Custody: Present		✓		
Form 1D:	Present and complete	✓		
	Raw Data present for all samples	✓		
	Non-detects lined-out and initialed	✓		

Comments: _____

_____

Form 2E:	Present and complete	✓		
	Surrogate Recoveries within limits	✓		

Comments: _____

_____

Form 3E:	Present and complete	✓		
	Spike Recoveries within limits	✓		

Comments: _____

_____

Method 8082 PCB Package Review Checklist

Client PBS **Project** Nimo/Gerko St. **SDG** L5600-4

		Yes	No	NA
Form 4C:	Present and complete	✓		
IDLs:	Present and complete	✓		
GC Parameters:	Present and complete	✓		
Form 6E:	Present and complete	✓		
	% RSD within limits (≤ 20 %)	✓		

Comments: _____

_____

Form 7:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Form 8:	Present and complete	✓		
	% D within limits	✓		
Form 9:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Calibration Data:	Present and complete	✓		

Method 8082 PCB Package Review Checklist

Client BBL **Project** Nimo/School St. **SDG** L5600H

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓

Comment: _____

		Yes	No	NA
Calculation Formula:	Present	✓		
Extraction Logs:	Present	✓		
GPC/Calibration Logs:	Present			✓
% Moisture Calculation:	Present	✓		
Calibration and Spike Standards Log:	Present	✓		

Section Supervisor: Carmen V Kappel Date: 12/14/99

QC Reviewer: [signature] Date: 12/14/99

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L56004 SDG : L56004 MATRIX : Soil

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbametes Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
SS-26	L56004-2			X												
DUP-2	L56004-3			X												
SS-17	L56004-4			X												
TP-16	L56004-5			X												
SS-18	L56004-6			X												
TP-18	L56004-7			X												
SS-16	L56004-8			X												
TP-26	L56004-9			X												
TP-17	L56004-10			X												
TP-15	L56004-11			X												
SS-15	L56004-12			X												
SS-15MS	L56004-13			X												
SS-15MSD	L56004-14			X												
MSB	L56004-15			X												

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L56004 SDG : L56004 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbametes Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
RB-1	L56004-1			X												

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
DUP-2 L56004-3	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
SS-15 L56004-12	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
SS-15MS L56004-13	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
SS-15MSD L56004-14	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
SS-16 L56004-8	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
SS-17 L56004-4	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
SS-18 L56004-6	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
SS-26 L56004-2	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
TP-15 L56004-11	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
TP-16 L56004-5	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
TP-17 L56004-10	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
TP-18 L56004-7	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99
TP-26 L56004-9	SOIL	22-NOV-99	23-NOV-99	24-NOV-99	30-NOV-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
RB-1 L56004-1	WATER	22-NOV-99	23-NOV-99	23-NOV-99	29-NOV-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
DUP-2 L56004-3	Soil	8080 HYSEC ACP CAT B	SW846/3550 /8082	ACID WASH ALUMINA	1
SS-15 L56004-12	Soil		SW846/3550 /8082		5
SS-15MS L56004-13	Soil		SW846/3550 /8082		5
SS-15MSD L56004-14	Soil		SW846/3550 /8082		5
SS-16 L56004-8	Soil		SW846/3550 /8082		4
SS-17 L56004-4	Soil		SW846/3550 /8082		100
SS-18 L56004-6	Soil		SW846/3550 /8082		50
SS-26 L56004-2	Soil		SW846/3550 /8082		20
TP-15 L56004-11	Soil		SW846/3550 /8082		4
TP-16 L56004-5	Soil		SW846/3550 /8082		2
TP-17 L56004-10	Soil		SW846/3550 /8082		400
TP-18 L56004-7	Soil		SW846/3550 /8082		1
TP-26 L56004-9	Soil		SW846/3550 /8082		100

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
RB-1 L56004-1	Water	8081 WEDEC AEP CAT B	SW846/3520 /8082	ACID WASH ALUMINA	1

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L56004	11/22/99	1995	SS-15[1]	soil	--	--	yes	--	
L56004	11/22/99	1995	SS-16	soil	--	--	yes	--	
L56004	11/22/99	1995	SS-17	soil	--	--	yes	--	
L56004	11/22/99	1995	SS-18	soil	--	--	yes	--	
L56004	11/22/99	1995	SS-26	soil	--	--	yes	--	
L56004	11/22/99	1995	TP-15	soil	--	--	no	--	PCB - f.dup
L56004	11/22/99	1995	TP-16	soil	--	--	no	--	PCB - f.dup
L56004	11/22/99	1995	TP-17	soil	--	--	no	--	PCB - f.dup
L56004	11/22/99	1995	TP-18	soil	--	--	no	--	PCB - f.dup
L56004	11/22/99	1995	TP-26	soil	--	--	no	--	PCB - f.dup
L56004	11/22/99	1995	DUP-2	soil	--	--	no	--	PCB - f.dup
L56004	11/22/99	1995	RB-1	water	--	--	yes	--	

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

SDG - L56003
Samples collected 11/23/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L56003

PCB ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L56003 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
MW-1	L56003-4	water	11/23/99			x		
MW-2D[1]	L56003-3	water	11/23/99			x		
MW-3	L56003-5	water	11/23/99			x		
DUP-1	L56003-6	water	11/23/99			x		

1 MS/MSD analysis performed on sample

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for waters are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blank.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

Recoveries for Aroclor 1016 were below control limits in both the matrix spike and matrix spike duplicate. Recoveries for Aroclor 1260 were, however, within control limits. Since all matrix spike blank recoveries were within control limits, no data have been qualified based on the deviations.in the matrix spike blank.

8. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-3/DUP-1	ND	--	--	NA

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

10. Miscellaneous Comments

No confirmation column data was provided for either samples, standards, blanks, or spikes. Since all samples were non-detect, no action has been taken.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
2 out of 4			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 2			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?			X

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
MW-1			
MW-2D			
MW-2D MS			
MW-2D MSD			
MW-3			
DUP-1			

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	5/26/99-5/27/99	11/29/99	11/29/99					
Time:		1348	2033					
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok	ok	ok					
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok							
Aroclor 1254	ok							
Aroclor 1260	ok	ok	ok					
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							

Affected Samples:								

Corrected Sample Analysis Data Sheets

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

DUP-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56003

Matrix: (soil/water) WATER Lab Sample ID: L56003-6

Sample wt/vol: 1050 (g/mL) mL Lab File ID: HP9B\1129B017

% Moisture: decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
12674-11-2	Aroclor-1016	0.05	U
11104-28-2	Aroclor-1221	0.05	U
11141-16-5	Aroclor-1232	0.05	U
53469-21-9	Aroclor-1242	0.05	U
12672-29-6	Aroclor-1248	0.05	U
11097-69-1	Aroclor-1254	0.05	U
11096-82-5	Aroclor-1260	0.05	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-1

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56003

Matrix: (soil/water) WATER Lab Sample ID: L56003-4

Sample wt/vol: 1050 (g/mL) mL Lab File ID: HP9B\1129B015

% Moisture: decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
12674-11-2	Aroclor-1016	0.05	U
11104-28-2	Aroclor-1221	0.05	U
11141-16-5	Aroclor-1232	0.05	U
53469-21-9	Aroclor-1242	0.05	U
12672-29-6	Aroclor-1248	0.05	U
11097-69-1	Aroclor-1254	0.05	U
11096-82-5	Aroclor-1260	0.05	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-2D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56003

Matrix: (soil/water) WATER Lab Sample ID: L56003-3

Sample wt/vol: 1050 (g/mL) mL Lab File ID: HP9B\1129B014

% Moisture: decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
12674-11-2	Aroclor-1016	0.05	U
11104-28-2	Aroclor-1221	0.05	U
11141-16-5	Aroclor-1232	0.05	U
53469-21-9	Aroclor-1242	0.05	U
12672-29-6	Aroclor-1248	0.05	U
11097-69-1	Aroclor-1254	0.05	U
11096-82-5	Aroclor-1260	0.05	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56003

Matrix: (soil/water) WATER Lab Sample ID: L56003-5

Sample wt/vol: 1050 (g/mL) mL Lab File ID: HP9B\1129B016

% Moisture: decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/23/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/29/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
12674-11-2	Aroclor-1016	0.05	U
11104-28-2	Aroclor-1221	0.05	U
11141-16-5	Aroclor-1232	0.05	U
53469-21-9	Aroclor-1242	0.05	U
12672-29-6	Aroclor-1248	0.05	U
11097-69-1	Aroclor-1254	0.05	U
11096-82-5	Aroclor-1260	0.05	U

FORM I PEST

Laboratory Narrative

Galson Laboratories

6601 Kirkville Road
E. Syracuse, NY 13057-0369
Phone: (315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

Mr. Mike Jones
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC School Street; Project No. 36494
SDG L56003

The following package contains the analytical results of the water samples submitted to our laboratory on November 23, 1999. The samples were received intact and under proper chain of custody. The temperature of the samples was checked upon receipt. The sample temperature, as recorded with a temperature gun, was 0.8°C. The samples were assigned to login and sample delivery group (SDG) L56003.

The samples were reported according to ASP Category B guidelines. Sample MW-2D was submitted for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 method 8082 for PCBs.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklist*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: December 10, 1999

Method 8082 PCB Package Review Checklist

Client PBL **Project** NINO/SCHOOL ST. **SDG** L56003

		Yes	No	NA
DEC Forms:	Present and complete	✓		
	Holding times met	✓		

Comments: _____

_____

Internal Chain of Custody: Present		✓		
Form 1D:	Present and complete	✓		
	Raw Data present for all samples	✓		
	Non-detects lined-out and initialed	✓		

Comments: _____

_____

Form 2E:	Present and complete	✓		
	Surrogate Recoveries within limits	✓		

Comments: _____

_____

Form 3E:	Present and complete	✓		
	Spike Recoveries within limits		✓	

Comments: No recovery outside of control limits due to matrix interference.

Method 8082 PCB Package Review Checklist

Client BBL **Project** NIMO/SCHOOLS **SDG** L5600-3

		Yes	No	NA
Form 4C:	Present and complete	✓		
IDLs:	Present and complete	✓		
GC Parameters:	Present and complete	✓		
Form 6E:	Present and complete	✓		
	% RSD within limits (≤ 20 %)	✓		

Comments: _____

_____

Form 7:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Form 8:	Present and complete	✓		
	% D within limits	✓		
Form 9:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Calibration Data:	Present and complete	✓		

Method 8082 PCB Package Review Checklist

Client PBL **Project** NIMO/SHOALS **SDG** L56003

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓

Comment: _____

Calculation Formula:	Present	✓		
Extraction Logs:	Present	✓		
GPC/Calibration Logs:	Present			✓
% Moisture Calculation:	Present			✓
Calibration and Spike Standards Log:	Present	✓		

Section Supervisor: Donna V. Kappel Date: 12/09/99

QC Reviewer: Lynda Ll. Hyde Date: 12/10/99

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L56003 SDG : L56003 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbametes Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
MW-2DMSD	L56003-1			X												
MW-2DMS	L56003-2			X												
MW-2D	L56003-3			X												
MW-1	L56003-4			X												
MW-3	L56003-5			X												
DUP-1	L56003-6			X												
MSB	L56003-7			X												

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
DUP-1 L56003-6	WATER	23-NOV-99	23-NOV-99	23-NOV-99	29-NOV-99
MW-1 L56003-4	WATER	23-NOV-99	23-NOV-99	23-NOV-99	29-NOV-99
MW-2D L56003-3	WATER	22-NOV-99	23-NOV-99	23-NOV-99	29-NOV-99
MW-2DMS L56003-2	WATER	22-NOV-99	23-NOV-99	23-NOV-99	29-NOV-99
MW-2DMSD L56003-1	WATER	22-NOV-99	23-NOV-99	23-NOV-99	29-NOV-99
MW-3 L56003-5	WATER	23-NOV-99	23-NOV-99	23-NOV-99	29-NOV-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
DUP-1 L56003-6	Water	8082 NYSDEC ASP CAT B	SW846/3520 /8082	ACID WASH ALUMINA	1
MW-1 L56003-4	Water	↓	SW846/3520 /8082	↓	1
MW-2D L56003-3	Water	↓	SW846/3520 /8082	↓	1
MW-2DMS L56003-2	Water	↓	SW846/3520 /8082	↓	1
MW-2DMSD L56003-1	Water	↓	SW846/3520 /8082	↓	1
MW-3 L56003-5	Water	↓	SW846/3520 /8082	↓	1

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L56003	11/23/99	1995	MW-1	water	--	--	no	--	PCB - ms[2]
L56003	11/23/99	1995	MW-2D	water	--	--	no	--	PCB - ms[2]
L56003	11/23/99	1995	MW-3	water	--	--	no	--	PCB - ms[2]
L56003	11/23/99	1995	DUP-1	ater	--	--	no	--	PCB - ms[2]

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

SDG - L56012
Samples collected 11/23/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L56012

PCB ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L56012 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
SD-1(1.5-2)	L56012-11	sediment	11/23/99			x		
SD-1(2-3)	L56012-12	sediment	11/23/99			x		
SD-1(3-4)	L56012-13	sediment	11/23/99			x		
SD-1(4-5)	L56012-14	sediment	11/23/99			x		
SD-1(5-6)[1]	L56012-15	sediment	11/23/99			x		
SD-2(1.5-2)	L56012-7	sediment	11/23/99			x		
SD-2(2-3)	L56012-8	sediment	11/23/99			x		
SD-2(3-4)	L56012-9	sediment	11/23/99			x		
SD-2(4-5)	L56012-10	sediment	11/23/99			x		
SD-3(1.5-2)	L56012-6	sediment	11/23/99			x		
SD-7(0-0.5)	L56012-1	sediment	11/23/99			x		
SD-7(0.5-1)	L56012-2	sediment	11/23/99			x		
SD-7(1-1.5)	L56012-3	sediment	11/23/99			x		
SD-7(1.5-2)	L56012-4	sediment	11/23/99			x		
SD-7(2-3)	L56012-5	sediment	11/23/99			x		

1 MS/MSD analysis performed on sample

PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 days from sample collection to extraction and 40 days to analysis.

All samples were extracted outside the ASP-specified holding time. Since all samples were extracted wihtin the technical holding time, no data have been qualified based on the deviation.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method blank.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

All surrogate recoveries were within control limits.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between reocveries were within control limits.

8. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

9. Field Duplicates

No field duplicates were included in this data set.

10. Miscellaneous Comments

Aroclor 1248 wass present but not reported in sample SD-1(1.5-2) and Aroclor 1260 was present but not reported in sample SD-7(0-0.5). The attached sample analysis summary sheets for these samples have been corrected to reflect the presence of these Aroclors.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?	X		
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 2			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 1			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?			X
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?	X		
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?		X	

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
SD-1(1.5-2)	+8 (ASP)		
SD-1(2-3)	+8 (ASP)		
SD-1(3-4)	+8 (ASP)		
SD-1(4-5)	+8 (ASP)		
SD-1(5-6)	+8 (ASP)		
SD-1(5-6)MS	+8 (ASP)		
SD-1(5-6)MSD	+8 (ASP)		
SD-2(1.5-2)	+8 (ASP)		
SD-2(2-3)	+8 (ASP)		
SD-2(3-4)	+8 (ASP)		
SD-2(4-5)	+8 (ASP)		
SD-3(1.5-2)	+8 (ASP)		
SD-7(0-0.5)	+8 (ASP)		
SD-7(0.5-1)	+8 (ASP)		
SD-7(1-1.5)	+8 (ASP)		
SD-7(1.5-2)	+8 (ASP)		
SD-7(2-3)	+8 (ASP)		

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	5/26/99-5/27/99	12/9/99	12/10/99	12/10/99	12/10/99	12/10/99		
Time:		1700	0139	1054	1525	1610		
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok			ok		ok		
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok	ok	ok		ok			
Aroclor 1254	ok							
Aroclor 1260	ok			ok		ok		
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							
Affected Samples:								

Corrected Sample Analysis Data Sheets

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-1(1.5-2)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-11

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1209B035

% Moisture: 24 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	22	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	22	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	Aroclor-1260	22	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-1(2-3)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-12

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\1209B036

% Moisture: 24 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	22	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	22	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	Aroclor-1260	22	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-1(3-4)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-13

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\1209B037

% Moisture: 25 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	22	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	22	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	Aroclor-1260	22	U

FORM I PEST

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-1(4-5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-14

Sample wt/vol: 30.5 (g/mL) g Lab File ID: HP9B\1209B038

% Moisture: 24 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	22	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	22	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	Aroclor-1260	22	U

FORM I PEST

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-1(5-6)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-15

Sample wt/vol: 30.7 (g/mL) g Lab File ID: HP9B\1209B039

% Moisture: 3 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	17	U
11104-28-2	Aroclor-1221	17	U
11141-16-5	Aroclor-1232	17	U
53469-21-9	Aroclor-1242	17	U
12672-29-6	Aroclor-1248	17	U
11097-69-1	Aroclor-1254	17	U
11096-82-5	Aroclor-1260	17	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-2(1.5-2)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-7

Sample wt/vol: 31 (g/mL) g Lab File ID: HP9B\1209B073

% Moisture: 24 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	21	U
11104-28-2	Aroclor-1221	21	U
11141-16-5	Aroclor-1232	21	U
53469-21-9	Aroclor-1242	21	U
12672-29-6	Aroclor-1248	21	U
11097-69-1	Aroclor-1254	21	U
11096-82-5	Aroclor-1260	21	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-2(2-3)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-8

Sample wt/vol: 30.4 (g/mL) g Lab File ID: HP9B\1209B032

% Moisture: 26 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	22	U
11104-28-2	Aroclor-1221	22	U
11141-16-5	Aroclor-1232	22	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	Aroclor-1260	22	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-2(3-4)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-9

Sample wt/vol: 31.7 (g/mL) g Lab File ID: HP9B\1209B033

% Moisture: 25 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	21	U
11104-28-2	Aroclor-1221	21	U
11141-16-5	Aroclor-1232	21	U
53469-21-9	Aroclor-1242	21	U
12672-29-6	Aroclor-1248	21	U
11097-69-1	Aroclor-1254	21	U
11096-82-5	Aroclor-1260	21	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-2(4-5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-10

Sample wt/vol: 30 (g/mL) g Lab File ID: HP9B\1209B034

% Moisture: 28 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	23	U
11104-28-2	Aroclor-1221	23	U
11141-16-5	Aroclor-1232	23	U
53469-21-9	Aroclor-1242	23	U
12672-29-6	Aroclor-1248	23	U
11097-69-1	Aroclor-1254	23	U
11096-82-5	Aroclor-1260	23	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-3(1.5-2)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-6

Sample wt/vol: 31.2 (g/mL) g Lab File ID: HP9B\1209B030

% Moisture: 32 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/09/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	24	U
11104-28-2	Aroclor-1221	24	U
11141-16-5	Aroclor-1232	24	U
53469-21-9	Aroclor-1242	24	U
12672-29-6	Aroclor-1248	24	U
11097-69-1	Aroclor-1254	24	U
11096-82-5	Aroclor-1260	24	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-7(0-0.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-1

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\1209B068

% Moisture: 22 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	21	U
11104-28-2	Aroclor-1221	21	U
11141-16-5	Aroclor-1232	21	U
53469-21-9	Aroclor-1242	21	U
12672-29-6	**Aroclor-1248**	**25**	
11097-69-1	Aroclor-1254	21	U
11096-82-5	Aroclor-1260	~~21~~ 20	~~U~~ J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-7(0.5-1)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-2

Sample wt/vol: 30 (g/mL) g Lab File ID: HP9B\1209B069

% Moisture: 14 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	19	U
11104-28-2	Aroclor-1221	19	U
11141-16-5	Aroclor-1232	19	U
53469-21-9	Aroclor-1242	19	U
12672-29-6	**Aroclor-1248**	21	
11097-69-1	Aroclor-1254	19	U
11096-82-5	Aroclor-1260	19	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: SD-7(1-1.5)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-3

Sample wt/vol: 30.3 (g/mL) g Lab File ID: HP9B\1209B070

% Moisture: 18 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	20	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	20	U
53469-21-9	Aroclor-1242	20	U
12672-29-6	Aroclor-1248	20	U
11097-69-1	Aroclor-1254	20	U
11096-82-5	Aroclor-1260	20	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-7(1.5-2)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-4

Sample wt/vol: 30 (g/mL) g Lab File ID: HP9B\1209B071

% Moisture: 13 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	19	U
11104-28-2	Aroclor-1221	19	U
11141-16-5	Aroclor-1232	19	U
53469-21-9	Aroclor-1242	19	U
12672-29-6	Aroclor-1248	19	U
11097-69-1	Aroclor-1254	19	U
11096-82-5	Aroclor-1260	19	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SD-7(2-3)

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L56012

Matrix: (soil/water) SOIL Lab Sample ID: L56012-5

Sample wt/vol: 30.5 (g/mL) g Lab File ID: HP9B\1209B072

% Moisture: 17 decanted: (Y/N) N Date Received: 11/23/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/06/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/10/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
12674-11-2	Aroclor-1016	20	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	20	U
53469-21-9	Aroclor-1242	20	U
12672-29-6	Aroclor-1248	20	U
11097-69-1	Aroclor-1254	20	U
11096-82-5	Aroclor-1260	20	U

FORM I PEST

Laboratory Narrative

vlj2166

Galson Laboratories

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Fax: (315) 437-0571
www.galsonlabs.com

Mr. Mike Jones
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC School Street; Project No. 36494
SDG L56012

The following package contains the analytical results of the soil samples submitted to our laboratory on November 23, 1999. The samples were received intact and under proper chain of custody. The temperature of the samples was checked upon receipt. The sample temperature, as recorded with a temperature gun, was 1.9°C. The samples were assigned to login and sample delivery group (SDG) L56012.

The samples were submitted for PCB and TOC analyses and placed on hold upon receipt per instructions on the chain of custody. The samples were taken off hold for PCB only on December 6, 1999 by John Brussel. The samples were extracted within the RCRA hold time for PCBs.

The samples were reported according to ASP Category B guidelines. Sample SD-1 (5-6) was selected for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 method 8082 for PCBs.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklist*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Date: December 27, 1999

Method 8082 PCB Package Review Checklist

Client PBL Project Nimo/School St. SDG 15619

		Yes	No	NA
DEC Forms:	Present and complete	✓		
	Holding times met	✓		

Comments: _____

_____

Internal Chain of Custody: Present		✓		
Form 1D:	Present and complete	✓		
	Raw Data present for all samples	✓		
	Non-detects lined-out and initialed	✓		

Comments: _____

_____

Form 2E:	Present and complete	✓		
	Surrogate Recoveries within limits	✓		

Comments: _____

_____

Form 3E:	Present and complete	✓		
	Spike Recoveries within limits	✓		

Comments: _____

_____

Method 8082 PCB Package Review Checklist

Client BBL Project NINO/SOCAL SDG L56012

		Yes	No	NA
Form 4C:	Present and complete	✓		
IDLs:	Present and complete	✓		
GC Parameters:	Present and complete	✓		
Form 6E:	Present and complete	✓		
	% RSD within limits (≤ 20 %)	✓		

Comments: _____

_____

Form 7:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Form 8:	Present and complete	✓		
	% D within limits	✓		
Form 9:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Calibration Data:	Present and complete	✓		

Method 8082 PCB Package Review Checklist

Client BBL Project NWO Schools SDG L5601

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓
Calculation Formula: Present	✓		
Extraction Logs: Present	✓		
GPC/Calibration Logs: Present			✓
% Moisture Calculation: Present	✓		
Calibration and Spike Standards Log: Present	✓		

Comment: _____

Section Supervisor: Common V. Kappil Date: 12/27/99

QC Reviewer: Lynda W. McCall Date: 12/27/99

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L56012 SDG : L56012 MATRIX : Soil

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1995															
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbametes Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
SD-7(0-0.5)	L56012-1			X												
SD-7(0.5-1)	L56012-2			X												
SD-7(1-1.5)	L56012-3			X												
SD-7(1.5-2)	L56012-4			X												
SD-7(2-3)	L56012-5			X												
SD-3(1.5-2)	L56012-6			X												
SD-2(1.5-2)	L56012-7			X												
SD-2(2-3)	L56012-8			X												
SD-2(3-4)	L56012-9			X												
SD-2(4-5)	L56012-10			X												
SD-1(1.5-2)	L56012-11			X												
SD-1(2-3)	L56012-12			X												
SD-1(3-4)	L56012-13			X												
SD-1(4-5)	L56012-14			X												
SD-1(5-6)	L56012-15			X												
SD-1(5-6)MS	L56012-16			X												
SD-1(5-6)MSD	L56012-17			X												
MSB	L56012-18			X												

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
SD-1(1.5-2) L56012-11	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-1(2-3) L56012-12	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-1(3-4) L56012-13	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-1(4-5) L56012-14	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-1(5-6) L56012-15	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-1(5-6)MS L56012-16	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	10-DEC-99
SD-1(5-6)MSD L56012-17	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	10-DEC-99
SD-2(1.5-2) L56012-7	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	10-DEC-99
SD-2(2-3) L56012-8	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-2(3-4) L56012-9	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-2(4-5) L56012-10	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-3(1.5-2) L56012-6	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	09-DEC-99
SD-7(0-0.5) L56012-1	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	10-DEC-99
SD-7(0.5-1) L56012-2	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	10-DEC-99
SD-7(1-1.5) L56012-3	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	10-DEC-99
SD-7(1.5-2) L56012-4	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	10-DEC-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
SD-7(2-3) L56012-5	SOIL	23-NOV-99	23-NOV-99	06-DEC-99	10-DEC-99

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L56012	11/23/99	1995	SD-1(1.5-2)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-1(2-3)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-1(3-4)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-1(4-5)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-1(5-6)[1]	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-2(1.5-2)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-2(2-3)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-2(3-4)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-2(4-5)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-3(1.5-2)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-7(0-0.5)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-7(0.5-1)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-7(1-1.5)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-7(1.5-2)	sediment	--	--	no	--	PCB - Hold time[2]
L56012	11/23/99	1995	SD-7(2-3)	sediment	--	--	no	--	PCB - Hold time[2]

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.

vlj2166

SDG - L49971

Samples collected 3/29 and 3/30/99

DATA REVIEW FOR

NMPC
SCHOOL STREET

SDG# L49971

VOLATILE, SEMIVOLATILE, PCB
AND INORGANIC ANALYSES

Analyses performed by:

Galson Laboratories
East Syracuse, New York

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York

Summary

The following is an assessment of the data package for SDG# L49971 for sampling at the NMPC-School Street site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOA	BNA	PCB	TAL	TOC
S-6(0-6)[1]	L49971-1	soil	3/29/99		x	x	x	
S-6(0-6)D	L49971-2	soil	3/29/99		x	x	x	
S-6(6-18)	L49971-5	subsurface soil	3/29/99	x	x	x	x	
S-3(0-6)	L49971-6	soil	3/29/99		x	x	x	
S-3(2-3)[2]	L49971-7	subsurface soil	3/29/99	x	x	x	x	
S-3(2-3)D	L49971-8	subsurface soil	3/29/99	x				
S-5(0-6)	L49971-11	soil	3/29/99			x		
S-5(6-18)	L49971-12	subsurface soil	3/29/99			x		
RINSE BLANK	L49971-13	water	3/29/99	x	x	x	x	
S-1(0-6)	L50026-1	soil	3/30/99		x	x	x	
S-1(1-2)	L50026-2	subsurface soil	3/30/99	x	x	x	x	
S-4(0-6)	L50026-3	soil	3/30/99			x		
S-4(6-8)	L50026-4	subsurface soil	3/30/99			x		
S-8(0-6)	L50026-5	soil	3/30/99			x		
S-8(6-18)	L50026-6	subsurface soil	3/30/99			x		
S-2(0-6)	L50026-7	soil	3/30/99		x	x	x	
S-2(6-18)	L50026-8	subsurface soil	3/30/99	x	x	x	x	
S-9(0-6)	L50026-9	soil	3/30/99			x		
S-9(6-18)	L50026-10	subsurface soil	3/30/99			x		
S-7(0-6)	L50026-11	soil	3/30/99		x	x	x	
S-7(6-18)	L50026-12	subsurface soil	3/30/99	x	x	x	x	
S-11(6-12)	L50026-13	subsurface soil	3/30/99			x		

1 MS/MSD/DUP analysis performed on sample
2 MS/MSD analysis performed on sample, volatiles only

VOLATILE ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding time for volatile analyses under NYSASP is 10 days from sample receipt. The technical holding time for soils is 14 days from sample collection. The holding time for unpreserved waters is 7 days from sample collection for aromatic compounds and 14 days from collection for non-aromatic compounds.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Field and rinse blanks measure contamination of samples during field operations.

Methylene chloride was detected in one of the method blanks and acetone and 2-butanone were detected in the rinse blank. Based on the blank content, data for methylene chloride have been qualified as undetected in samples S-1(1-2), S-1(1-2)RE, S-2(6-18) and S-7(6-18).

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) limits for select compounds only and allows two outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD for was less than 30% and all response factors were greater than 0.05 for all compounds, with the following exceptions:

Instrument MSC 3/30/99

Bromomethane	45.6%

Instrument MSC 4/5/99

Bromomethane	39.1%

All data for bromomethane have been qualified as estimated based on the %RSD.

4.2 Continuing Calibration

The method species percent drift (%D) criteria for select compounds only. A technical review applies limits to all compounds with no exceptions.

All compounds were within 25%D, with the following exceptions:

Instrument MSC 3/31/99 13:08

Trichlorofluoromethane	25.7%
Iodomethane	44.1%
2-Chloroethylvinyl ether	-40.3%

Data for 2-chloroethylvinyl ether have been qualified as estimated in the associated samples S-6(6-18)RE, S-3(2-3)MS and S-3(2-3)MSD. Since neither of the remaining listed compounds were detected in the samples and since the compound responses were increasing, no additional data have been qualified based on the %D.

Instrument MSC 3/31/99 13:08

Bromomethane	-26.1%
Acetone	91.8%
Iodomethane	37.2%
2-Butanone	56.3%

Data for bromomethane have been previously qualified based on the initial calibration %RSD. Since none of the remaining listed compounds were detected in the associated samples and since the compound responses were increasing, no additional data have been qualified based on the %D.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Recoveries for all surrogates in sample S-1(1-2) and recoveries for two surrogates in sample S-1(1-2)RE were above control limits. All positive data for

these samples have been qualified as estimated based on the recoveries. All other surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

Response for one or more internal standards were below established limits in samples S-1(1-2), S-1(1-2)RE, S-6(6-18) and S-6(-18)RE. Data for all compounds quantitated under the non-compliant standards have been either qualified as estimated or rejected, depending on the severity of the deviations. All other internal standard responses and retention times were within established limits.

7. Compound Identification

Compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike and matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

All matrix spike and matrix spike duplicate recoveries and relative percent differences between recoveries were within control limits.

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicates

No field duplicates were included in this data set.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all the samples listed on the appropriate surrogate recovery form?	X		
Was one or more surrogate recoveries outside of specified limits for any sample or blank?	X		
If yes, were the samples reanalyzed?	X		
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 10			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 5			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every twelve hours for each system used?	X		

Volatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
Do any method/reagent/instrument blanks have positive results?	X		
Are there trip/field/rinse blanks associated with every sample?	X		
Do any trip/field/rinse blanks have positive results?	X		
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each twelve hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?	X		

Volatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	X		
Are any target compounds listed as TICs?		X	
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
Do the TIC and "best match" spectrum agree within 20%?	X		
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	

Volatile Organics Data Validation Checklist - Page 4

	YES	NO	NA
Internal Standards			
Are internal standard areas of every sample and blank within the established upper and lower limits?		X	
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?		X	

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*			Internal Standards*		
		TOL	BFB	DCE	DFB	DCB	CBZ
S-6(6-18)					↓	↓	↓
S-6(6-18)RE						↓	↓
S-3(2-3)							
S-3(2-3)MS							
S-3(2-3)MSD							
S-3(2-3)D							
RINSE BLANK							
S-1(1-2)		↑	↑	↑	↓	↓↓	↓↓
S-1(1-2)RE		↑	↑		↓	↓↓	↓
S-2(6-18)							
S-7(6-18)							

Surrogates:
TOL Toluene-d8
BFB Bromofluorobenzene
DCE 1,4-Dichloroethane-d4

Internal Standards:
DFB 1,4-Difluorobenzene
DCB 1,4-Dichlorobenzene-d4
CBZ Chlorobenzene-d5

Qualifiers:
D Diluted
↑ Recovery high
↓ Recovery low
↓↓ Recovery <25%

* Unless otherwise specified, all parameters are within acceptable limits.

Volatile Calibration Outliers

Instrument: MSC
Matrix: soil
Level: low

Date/Time	3/30/99		3/30/99 1431		3/31/99 1308					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
chloromethane										
bromomethane		45.6								
vinyl chloride										
chloroethane										
trichlorofluoromethane						25.7				
methylene chloride										
acetone										
iodomethane						44.7				
carbon disulfide										
acrylonitrile										
1,1-dichloroethene										
1,1-dichloroethane										
cis-1,2-dichloroethene										
trans-1,2-dichloroethene										
vinyl acetate										
chloroform										
1,2-dichloroethane										
2-butanone										
bromochloromethane										
1,1,1-trichloroethane										
carbon tetrachloride										
bromodichloromethane										
2-chloroethylvinyl ether						-40.3				
1,2-dichloropropane										
cis-1,3-dichloropropene										
trichloroethene										
dibromochloromethane										
1,1,2-trichloroethane										
benzene										
trans-1,3-dichloropropene										
bromoform										
1,1,1,2-tetrachloroethane										
4-methyl-2-pentanone										
2-hexanone										

Volatile Calibration Outliers - Page 2

Date/Time	3/30/99		3/30/99 1431		3/31/99 1308					
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
tetrachloroethene										
1,1,2,2-tetrachloroethane										
toluene										
1,2-dibromoethane										
chlorobenzene										
ethylbenzene										
styrene										
m/p-xylenes										
o-xylene										
trans-1,4-dichloro-2-butene										
isopropylbenzene										
1,2,3-trichloropropane										
n-propylbenzene										
1,3,5-trimethylbenzene										
tert-butylbenzene										
1,2,4-trimethylbenzene										
sec-butylbenzene										
p-isopropyltoluene										
1,3-dichlorobenzene										
1,4-dichlorobenzene										
1,2-dichlorobenzene										
n-butylbenzene										
1,2-dibromo-3-chloropropane										

Affected Samples

rinse blank		s-6(6-18)re	
s-3(2-3)d		s-3(2-3)ms	
s-3(2-3)		s-2(2-3)msd	
s-6(6-18)			
s-6(6-18)re			
s-3(2-3)ms			
s-3(2-3)msd			

Volatile Calibration Outliers - Page 3

Instrument: MSC
Matrix: soil
Level: low

Date/Time	4/5/99		4/6/99 1104							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
chloromethane										
bromomethane		39.1		-26.1						
vinyl chloride										
chloroethane										
trichlorofluoromethane										
methylene chloride										
acetone				91.8						
iodomethane				37.2						
carbon disulfide										
acrylonitrile										
1,1-dichloroethene										
1,1-dichloroethane										
cis-1,2-dichloroethene										
trans-1,2-dichloroethene										
vinyl acetate										
chloroform										
1,2-dichloroethane										
2-butanone				56.3						
bromochloromethane										
1,1,1-trichloroethane										
carbon tetrachloride										
bromodichloromethane										
2-chloroethylvinyl ether										
1,2-dichloropropane										
cis-1,3-dichloropropene										
trichloroethene										
dibromochloromethane										
1,1,2-trichloroethane										
benzene										
trans-1,3-dichloropropene										
bromoform										
1,1,1,2-tetrachloroethane										
4-methyl-2-pentanone										
2-hexanone										

Volatile Calibration Outliers - Page 4

Date/Time	4/5/99		4/6/99 1104							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
tetrachloroethene										
1,1,2,2-tetrachloroethane										
toluene										
1,2-dibromoethane										
chlorobenzene										
ethylbenzene										
styrene										
m/p-xylenes										
o-xylene										
trans-1,4-dichloro-2-butene										
isopropylbenzene										
1,2,3-trichloropropane										
n-propylbenzene										
1,3,5-trimethylbenzene										
tert-butylbenzene										
1,2,4-trimethylbenzene										
sec-butylbenzene										
p-isopropyltoluene										
1,3-dichlorobenzene										
1,4-dichlorobenzene										
1,2-dichlorobenzene										
n-butylbenzene										
1,2-dibromo-3-chloropropane										

Affected Samples					
	s-1(1-2)	s-1(1-2)			
	s-2(6-18)	s-2(6-18)			
	s-7(6-18)	s-7(6-18)			
	s-1(1-2)re	s-1(1-2)re			

vlj2166

Corrected Sample Analysis Data Sheets

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RINSE BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Water Lab Sample ID: L49971-13

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC033010

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U UJ
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	**Acetone**	**21**	
75-09-2	Methylene Chloride	10	U
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	10	U
107-13-1	Acrylonitrile	100	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	**2-Butanone**	8	J
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
110-75-8	2-Chloroethylvinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RINSE BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Water Lab Sample ID: L49971-13

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC033010

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
110-57-6	t-1,4-Dichloro-2-butene	100	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-06-6	tert-butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-butylbenzene	10	U
99-87-6	p-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

RINSE BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Water Lab Sample ID: L49971-13

Sample wt/vol: 5 (g/mL) mL Lab File ID: CC033010

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000075-28-5	Isobutane	1.59	11	J
2.	000067-63-0	Isopropyl Alcohol	3.41	11	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-1(1-2')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-2

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040606

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 5 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U
75-09-2	**Methylene Chloride**	**12**	**B**
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	10	U
107-13-1	Acrylonitrile	100	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	**Benzene**	**3**	**J**
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
110-75-8	2-Chloroethylvinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	**Toluene**	**140**	
10061-02-6	trans-1,3-dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-1(1-2')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-2

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040606

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 5 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	**Xylene (Total)**	**10**	
100-42-5	Styrene	10	U
110-57-6	t-1,4-Dichloro-2-butene	100	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-06-6	tert-butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-butylbenzene	10	U
99-87-6	p-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U

1E

SAMPLE NO.

S-1(1-2')

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-2

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040606

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 5 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		No Volatiles Found			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-1(1-2')RE

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-2RE

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040609

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 5 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	10	U
75-09-2	**Methylene Chloride**	7	JB
74-88-4	Iodomethane	10	U
75-15-0	Carbon disulfide	10	U
107-13-1	Acrylonitrile	100	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
108-05-4	Vinyl acetate	10	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	**Benzene**	2	J
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
110-75-8	2-Chloroethylvinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	**Toluene**	100	
10061-02-6	trans-1,3-dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

FORM I CLP VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-1(1-2')RE

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-2RE

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040609

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 5 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	**Xylene (Total)**	8	J
100-42-5	Styrene	10	U
110-57-6	t-1,4-Dichloro-2-butene	100	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
103-65-1	n-Propylbenzene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-06-6	tert-butylbenzene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
135-98-8	sec-butylbenzene	10	U
99-87-6	p-Isopropyltoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
104-51-8	n-Butylbenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-2(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-8

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040607

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 14 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
67-64-1	Acetone	12	U
75-09-2	**Methylene Chloride**	4	JB
74-88-4	Iodomethane	12	U
75-15-0	Carbon disulfide	12	U
107-13-1	Acrylonitrile	120	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
108-05-4	Vinyl acetate	12	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U
79-01-6	Trichloroethene	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
110-75-8	2-Chloroethylvinyl Ether	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	**Toluene**	4	J
10061-02-6	trans-1,3-dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-2(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-8

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040607

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 14 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
630-20-6	1,1,1,2-Tetrachloroethane	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
110-57-6	t-1,4-Dichloro-2-butene	120	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
96-18-4	1,2,3-Trichloropropane	12	U
103-65-1	n-Propylbenzene	12	U
108-67-8	1,3,5-Trimethylbenzene	12	U
98-06-6	tert-butylbenzene	12	U
95-63-6	1,2,4-Trimethylbenzene	12	U
135-98-8	sec-butylbenzene	12	U
99-87-6	p-Isopropyltoluene	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
104-51-8	n-Butylbenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	120	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S-2(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-8

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040607

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 14 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		No Volatiles Found			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-3(2-3')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-7

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033013

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 13 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	11	U
75-09-2	**Methylene Chloride**	2	J
74-88-4	Iodomethane	11	U
75-15-0	Carbon disulfide	11	U
107-13-1	Acrylonitrile	110	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
108-05-4	Vinyl acetate	11	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
110-75-8	2-Chloroethylvinyl Ether	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	**Toluene**	3	J
10061-02-6	trans-1,3-dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-3(2-3')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-7

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033013

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 13 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
110-57-6	t-1,4-Dichloro-2-butene	110	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
98-06-6	tert-butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-butylbenzene	11	U
99-87-6	p-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	110	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S-3(2-3')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-7

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033013

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 13 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown hydrocarbon	20.48	10	J
2.					
3.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-3(2-3')D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-8

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033012

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 13 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	11	U
75-09-2	**Methylene Chloride**	1	J
74-88-4	Iodomethane	11	U
75-15-0	Carbon disulfide	11	U
107-13-1	Acrylonitrile	110	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
108-05-4	Vinyl acetate	11	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
110-75-8	2-Chloroethylvinyl Ether	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	**Toluene**	18	
10061-02-6	trans-1,3-dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-3(2-3')D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-8

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033012

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 13 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
110-57-6	t-1,4-Dichloro-2-butene	110	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
98-06-6	tert-butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-butylbenzene	11	U
99-87-6	p-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	110	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S-3(2-3')D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-8

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033012

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 13 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		No Volatiles FOund			
2.					
3.					
4.					
5.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-5

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033014

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 8 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	11	U
75-09-2	**Methylene Chloride**	1	J
74-88-4	Iodomethane	11	U
75-15-0	Carbon disulfide	11	U
107-13-1	Acrylonitrile	110	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
108-05-4	Vinyl acetate	11	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
110-75-8	2-Chloroethylvinyl Ether	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	**Toluene**	3	J
10061-02-6	trans-1,3-dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-5

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033014

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 8 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	**Xylene (Total)**	2	J
100-42-5	Styrene	11	U
110-57-6	t-1,4-Dichloro-2-butene	110	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
98-06-6	tert-butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-butylbenzene	11	U
99-87-6	p-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	110	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.: S-6(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-5

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033014

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 8 Date Analyzed: 03/30/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000702-79-4	Adamantane, 1,3-dimethyl-	19.57	6	J
2.		Unknown	20.50	9	J
3.		Unknown	20.98	8	J
4.		Unknown	21.43	7	J
5.		Unknown	21.60	9	J
6.		Unknown	21.86	8	J
7.		Unknown	22.43	11	J
8.		Unknown	22.50	9	J
9.		Unknown	22.85	19	J
10.		Unknown	23.20	7	J
11.					
12.					
13.					
14.					
15.					
16.					
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18.					
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29.					
30.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(6-18")RE

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-5RE

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033105

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 8 Date Analyzed: 03/31/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U UJ
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	11	U
75-09-2	Methylene Chloride	11	U
74-88-4	Iodomethane	11	U
75-15-0	Carbon disulfide	11	U
107-13-1	Acrylonitrile	110	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
108-05-4	Vinyl acetate	11	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
110-75-8	2-Chloroethylvinyl Ether	11	U UJ
10061-01-5	cis-1,3-Dichloropropene	11	U UJ
108-10-1	4-Methyl-2-pentanone	11	U UJ
108-88-3	**Toluene**	1	J
10061-02-6	trans-1,3-dichloropropene	11	U UJ
79-00-5	1,1,2-Trichloroethane	11	U UJ
127-18-4	Tetrachloroethene	11	U UJ
591-78-6	2-Hexanone	11	U UJ
124-48-1	Dibromochloromethane	11	U UJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(6-18")RE

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L49971-5RE

Sample wt/vol: 5 (g/mL) g Lab File ID: CC033105

Level: (low/med) LOW Date Received: 03/30/99

%Moisture: not dec. 8 Date Analyzed: 03/31/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
110-57-6	t-1,4-Dichloro-2-butene	110	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
98-06-6	tert-butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-butylbenzene	11	U
99-87-6	p-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	110	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-7(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-12

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040608

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 13 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	11	U
75-09-2	**Methylene Chloride**	~~4~~ 11	~~JB~~ U
74-88-4	Iodomethane	11	U
75-15-0	Carbon disulfide	11	U
107-13-1	Acrylonitrile	110	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
108-05-4	Vinyl acetate	11	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
110-75-8	2-Chloroethylvinyl Ether	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	**Toluene**	6	J
10061-02-6	trans-1,3-dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-7(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-12

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040608

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 13 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
110-57-6	t-1,4-Dichloro-2-butene	110	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
98-06-6	tert-butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-butylbenzene	11	U
99-87-6	p-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	110	U

1E

SAMPLE NO.

S-7(6-18")

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) Soil Lab Sample ID: L50026-12

Sample wt/vol: 5 (g/mL) g Lab File ID: CC040608

Level: (low/med) LOW Date Received: 03/31/99

%Moisture: not dec. 13 Date Analyzed: 04/06/99

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		No Volatiles Found			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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29.					
30.					

SEMIVOLATILE ANALYSES

Introduction

Analyses were performed according to EPA SW-846 Method 8270 as referenced in the NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The method specified holding times for semivolatile analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 days from sample collection to extraction and 40 days to analysis and for waters are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, and rinse blanks) are prepared to identify any contamination which may have been introduced in to the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

Bis(2-ethylhexyl)phthalate was detected in the rinse blank and bis(2-ethylhexyl)phthalate and di-n-butyl phthalate were detected in the method blanks. Based on the similarity between the sample and blank concentrations, data for bis(2-ethylhexyl)phthalate have been qualified as undetected in samples S-1(1-2) and S-3(0-6), S-3(2-3), S-6(0-6), S-6(0-6)D and S-6(6-18) and data for di-n-butyl phthalate have been qualified as undetected in samples S-3(0-6), S-3(2-3), S-6(0-6), S-6(0-6)DL, S-6(0-6)D, S-6(6-18) and S-6(6-18)DL.

In addition to the target compound listed above, several non-target compounds were detected in the method blank. When common to the blank and samples, their presence in the samples has been rejected.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) limits for select compounds only and allows four outliers. A technical review of the data applies limits to all compounds with no exceptions.

The %RSD for was less than 30% and the response factors were greater than 0.05 for all compounds.

4.2 Continuing Calibration

The response for several compounds in the continuing calibration standards were outside 25% difference (%D) of the initial calibration, as summarized on the attached calibration summary sheets. All data for compounds with decreasing responses and all positive data for compounds with increasing responses have been qualified as estimated.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Recovery for one surrogate was above control limits in sample S-6(6-18). Since recoveries for all remaining surrogates were within control limits, no data have been qualified based on the deviation. All other surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every experimental run.

Responses for two internal standards were below established limits in samples S-6(0-6) and S-6(6-18). All data for compounds quantitated under the non-compliant standards have been qualified as estimated based on the deviations. All other internal standard responses and retention times were within established limits.

7. Compound Identification

Compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

All identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate

Matrix spike, matrix spike duplicate data are used to assess the precision and accuracy of the analytical method.

Recoveries for one compound was zero percent in both the matrix spike and matrix spike duplicate. Since the concentration of the compound in the unspiked sample was greater than nine times that in the spike, no data have been qualified based on the recoveries. All other matrix spike and matrix spike duplicate recoveries were within control limits.

9. Matrix Spike Blank

All matrix spike blank recoveries were within control limits.

10. Field Duplicate

No field duplicates were included in this data set.

11. System Performance and Overall Assessment

Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method and the data is considered acceptable for use as reported by the laboratory.

Data Validation Checksheets

Semi-Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
2 out of 22			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 11			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method blanks have positive results?	X		
Are there field/rinse blanks associated with every sample?	X		
Do any field/rinse blanks have positive results?	X		

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for DFTPP?	X		
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	X		
Has a DFTPP been analyzed for each twelve hours of analysis per instrument?	X		
Have the ion abundance criteria been met?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?	X		
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?	X		
Are any target compounds listed as TICs?		X	
Are all ion present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		

	YES	NO	NA
Do the TIC and "best match" spectrum agree within 20%?	X		
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?	X		
Are the average RRF equal to or greater than minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each twelve hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every samples and blank within the established upper and lower limits?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?		X	

Semi-Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*								Internal Standards*					
		NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	DCB	NPT	ANT	PHN	CRY	PRY
S-6(0-6)														↓	↓
S-6(0-6)MS															
s-6(0-6)MSD															
S-6(0-6)DL															
S-6(0-6)D															
S-6(6-18)				↑										↓	↓
S-6(6-18)DL															
S-3(0-6)															
S-3(2-3)															
RINSE BLANK															
S-1(0-6)															
S-1(1-2)															
S-2(0-6)															
S-2(6-18)															
S-7(0-6)															
S-7(6-18)															

Surrogates:
NBZ Nitrobenzene-d5
FBP 2-Fluorobiphenyl
TPH Terphenyl-d14
DCB 1,2-Dichlorobenzene-d4
PHL Phenol-d6
2FP 2-Fluorophenol
TBP 2,4,6-Tribromophenol
2CP 2-Chlorophenol-d4

Internal Standards:
DCB 1,4-Dichlorobenzene-d4
NPT Naphthalene-d8
ANT Acenaphthene-d10
PHN Phenanthrene-d10
CRY Chrysene-d12
PRY Perylene-d12

Qualifiers:
D Diluted
↓ Recovery low
↑ Recovery high
na not applicable

* Unless otherwise specified, all parameters are within acceptable limits.

Semivolatile Calibration Outliers

Instrument: MSE

Date/Time	3/29/99		3/31/99 0734		3/31/99 2003		4/1/99 0910		4/1/99 1616	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Phenol										
bis(2-Chloroethyl)ether										
2-Chlorophenol										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
2-Methylphenol										
2,2'oxybis(1-Chloropropane)										
4-Methylphenol										
N-Nitroso-di-n-propylamine										
Hexachloroethane										
Nitrobenzene										
Isophorone										
2-Nitrophenol										
2,4-Dimethylphenol										
bis(2-Chloroethoxy)methane										
2,4-Dichlorophenol										
1,2,4-Trichlorobenzene										
Naphthalene										
4-Chloroaniline										
Hexachlorobutadiene										
4-Chloro-3-methylphenol										
2-Methylnaphthalene										
Hexachlorocyclopentadiene						-27.5				-34.8
2,4,6-Trichlorophenol										
2,4,5-Trichlorophenol										
2-Chloronaphthalene										
2-Nitroaniline										
Dimethylphthalate										
Acenaphthylene										
2,6-Dinitrotoluene										
3-Nitroaniline										
Acenaphthene										
2,4-Dinitrophenol										-29.9

Semivolatile Calibration Outliers - Page 2

Date/Time	3/29/99		3/31/99 0734		3/31/99 2003		4/1/99 0910		4/1/99 1616	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
4-Nitrophenol										
Dibenzofuran										
2,4-Dinitrotoluene										
Diethylphthalate										
4-Chlorophenyl-phenylether										
Fluorene										
4-Nitroaniline										
4,6-Dinitro-2-methylphenol										
N-Nitrosodiphenylamine										
4-Bromophenyl-phenylether										
Hexachlorobenzene										
Pentachlorophenol										
Phenanthrene										
Anthracene										
Di-n-butylphthalate										
Fluoranthene										
Pyrene										
Butylbenzylphthalate										
3,3'-Dichlorobenzidine										
Benzo(a)anthracene										
Chrysene										
bis(2-ethylhexyl)phthalate										
Di-n-octylphthalate				37.9						
Benzo(b)fluoranthene										
Benzo(k)fluoranthene										
Benzo(a)pyrene										
Indeno(1,2,3-cd)pyrene										
Dibenz(a,h)anthracene										
Benzo(g,h,i)perylene										
Benzoic acid										
Benzyl alcohol										

Affected Samples:				
	rinse blank	s-6(6-18)		s-1(0-6)
		s-3(0-6)		s-1(1-2)
		s-3(2-3)		s-2(0-6)
		s-6(0-6)		s-2(6-18)
				s-7(0-6)

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Semivolatile Calibration Outliers - Page 3

Date/Time	3/29/99		3/31/99 0734		3/31/99 2003		4/1/99 0910		4/1/99 1616	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
									s-7(6-18)	

Corrected Sample Analysis Data Sheets

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RINSE BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) WATER Lab Sample ID: L49971-13

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC033110

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

RINSE BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) WATER Lab Sample ID: L49971-13

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC033110

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: decanted: (Y/N) N Date Extracted: 03/30/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
56-55-3	Benzo(a)anthracene	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
218-01-9	Chrysene	10	U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**28**	**B**
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

SAMPLE NO.

RINSE BLANK

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) WATER Lab Sample ID: L49971-13

Sample wt/vol: 1000 (g/mL) mL Lab File ID: EC033110

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	8.94	13	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-1(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-1

Sample wt/vol: 30.5 (g/mL) g Lab File ID: EC040111

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	350	U
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	880	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-1(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-1

Sample wt/vol: 30.5 (g/mL) g Lab File ID: EC040111

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
56-55-3	Benzo(a)anthracene	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

1F

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

S-1(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-1

Sample wt/vol: 30.5 (g/mL) g Lab File ID: EC040111

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 7 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000141-79-7	3-Penten-2-one, 4-methyl-	8.57	16000	JAB
2.	000123-42-2	2-Pentanone, 4-hydroxy-4-met	9.98	24000	JAB
3.		Unknown	12.56	420	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-1(1-2')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-2

Sample wt/vol: 30.3 (g/mL) g Lab File ID: EC040112

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 5 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	350	U
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	870	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	870	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-1(1-2')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-2

Sample wt/vol: 30.3 (g/mL) g Lab File ID: EC040112

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 5 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	870	U
100-02-7	4-Nitrophenol	870	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	870	U
534-52-1	4,6-Dinitro-2-methylphenol	870	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	870	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
56-55-3	Benzo(a)anthracene	350	U
91-94-1	3,3'-Dichlorobenzidine	690	U
218-01-9	Chrysene	350	U
117-81-7	**bis(2-Ethylhexyl)phthalate**	66	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

1F

SAMPLE NO.

S-1(1-2')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-2

Sample wt/vol: 30.3 (g/mL) g Lab File ID: EC040112

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 5 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000625-86-5	Furan, 2,5-dimethyl-	5.79	600	JB
2.	000141-79-7	3-Penten-2-one, 4-methyl-	8.57	13000	JAB
3.	000123-42-2	2-Pentanone, 4-hydroxy-4-met	9.96	20000	JAB
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-2(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-7

Sample wt/vol: 31.2 (g/mL) g Lab File ID: EC040113

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 14 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	370	U
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	930	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	930	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-2(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-7

Sample wt/vol: 31.2 (g/mL) g Lab File ID: EC040113

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 14 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	930	U
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	930	U
534-52-1	4,6-Dinitro-2-methylphenol	930	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	930	U
85-01-8	**Phenanthrene**	**92**	**J**
120-12-7	**Anthracene**	**91**	**J**
84-74-2	**Di-n-butylphthalate**	**150**	**J**
206-44-0	**Fluoranthene**	**130**	**J**
129-00-0	**Pyrene**	**120**	**J**
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo(a)anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	740	U
218-01-9	**Chrysene**	**63**	**J**
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S-2(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-7

Sample wt/vol: 31.2 (g/mL) g Lab File ID: EC040113

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 14 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000141-79-7	3-Penten-2-one, 4-methyl-	8.57	17000	JAB
2.	000123-42-2	2-Pentanone, 4-hydroxy-4-met	9.98	26000	JAB
3.		Unknown	12.56	300	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-2(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-8

Sample wt/vol: 31.7 (g/mL) g Lab File ID: EC040114

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 14 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	370	U
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	920	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	920	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-2(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-8

Sample wt/vol: 31.7 (g/mL) g Lab File ID: EC040114

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 14 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	920	U
100-02-7	4-Nitrophenol	920	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	920	U
534-52-1	4,6-Dinitro-2-methylphenol	920	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	920	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	**Fluoranthene**	**71**	**J**
129-00-0	**Pyrene**	**70**	**J**
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo(a)anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	730	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

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SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

S-2(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-8

Sample wt/vol: 31.7 (g/mL) g Lab File ID: EC040114

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 14 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000141-79-7	3-Penten-2-one, 4-methyl-	8.56	15000	JAB
2.	000123-42-2	2-Pentanone, 4-hydroxy-4-met	9.96	24000	JAB
3.		Unknown	12.55	320	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-3(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-6

Sample wt/vol: 30.3 (g/mL) g Lab File ID: EC033116

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 11 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	370	U
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	930	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	930	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-3(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-6

Sample wt/vol: 30.3 (g/mL) g Lab File ID: EC033116

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 11 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	930	U
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	930	U
534-52-1	4,6-Dinitro-2-methylphenol	930	U
86-30-6	N-Nitrosodiphenylamine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	930	U
85-01-8	**Phenanthrene**	**220**	**J**
120-12-7	**Anthracene**	**48**	**J**
84-74-2	**Di-n-butylphthalate**	**540**	**B**
206-44-0	**Fluoranthene**	**240**	**J**
129-00-0	**Pyrene**	**200**	**J**
85-68-7	Butylbenzylphthalate	370	U
56-55-3	**Benzo(a)anthracene**	**120**	**J**
91-94-1	3,3'-Dichlorobenzidine	740	U
218-01-9	**Chrysene**	**120**	**J**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**2000**	**B**
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

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SAMPLE NO.

S-3(0-6")

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-6

Sample wt/vol: 30.3 (g/mL) g Lab File ID: EC033116

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 11 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000625-33-2	3-Penten-2-one	4.90	280	J
2.		Unknown	5.15	200	J
3.		Unknown	8.39	160	J
4.	000112-92-5	1-Octadecanol	29.04	770	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-3(2-3')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-7

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC033117

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 13 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	380	U
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	940	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-3(2-3')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-7

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC033117

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 13 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	940	U
85-01-8	**Phenanthrene**	**54**	**J**
120-12-7	Anthracene	380	U
84-74-2	**Di-n-butylphthalate**	~~120~~ 380	**JB** U
206-44-0	**Fluoranthene**	**43**	**J**
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
56-55-3	Benzo(a)anthracene	380	U
91-94-1	3,3'-Dichlorobenzidine	760	U
218-01-9	Chrysene	380	U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**590**	**B** U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

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SAMPLE NO.

S-3(2-3')

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-7

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC033117

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 13 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	035065-27-1	1,1'-Biphenyl, 2,2',4,4',5,5	27.84	280	J
2.	035065-27-1	1,1'-Biphenyl, 2,2',4,4',5,5	27.91	160	J
3.		Polychlorinated biphenyl	28.05	980	J
4.		Polychlorinated biphenyl	28.43	900	J
5.		Polychlorinated biphenyl	29.07	890	J
6.		Unknown	29.40	290	J
7.		Unknown	30.02	240	J
8.		Polychlorinated biphenyl	30.65	460	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-1

Sample wt/vol: 30.1 (g/mL) g Lab File ID: EC033118

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 10 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	740	U
108-95-2	Phenol	740	U
111-44-4	bis(2-Chloroethyl)ether	740	U
95-57-8	2-Chlorophenol	740	U
541-73-1	**1,3-Dichlorobenzene**	**990**	
106-46-7	**1,4-Dichlorobenzene**	**1000**	
95-50-1	**1,2-Dichlorobenzene**	**150**	**J**
100-51-6	Benzyl alcohol	740	U
95-48-7	2-Methylphenol	740	U
108-60-1	2,2'-oxybis(1-Chloropropane)	740	U
106-44-5	**4-Methylphenol**	**78**	**J**
621-64-7	N-Nitroso-di-n-propylamine	740	U
67-72-1	Hexachloroethane	740	U
98-95-3	Nitrobenzene	740	U
78-59-1	Isophorone	740	U
88-75-5	2-Nitrophenol	740	U
111-91-1	bis(2-Chloroethoxy)methane	740	U
120-83-2	2,4-Dichlorophenol	740	U
120-82-1	**1,2,4-Trichlorobenzene**	**15000**	**E**
91-20-3	**Naphthalene**	**500**	**J**
106-47-8	4-Chloroaniline	740	U
87-68-3	Hexachlorobutadiene	740	U
59-50-7	4-Chloro-3-methylphenol	740	U
91-57-6	**2-Methylnaphthalene**	**1200**	
77-47-4	Hexachlorocyclopentadiene	740	U
88-06-2	2,4,6-Trichlorophenol	740	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	740	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	740	U
208-96-8	**Acenaphthylene**	**100**	**J**
606-20-2	2,6-Dinitrotoluene	740	U
99-09-2	3-Nitroaniline	1800	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-1

Sample wt/vol: 30.1 (g/mL) g Lab File ID: EC033118

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 10 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	**Acenaphthene**	100	J
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	**Dibenzofuran**	490	J
121-14-2	2,4-Dinitrotoluene	740	U
86-73-7	Fluorene	740	U
7005-72-3	4-Chlorophenyl-phenylether	740	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	**N-Nitrosodiphenylamine**	700	J
101-55-3	4-Bromophenyl-phenylether	740	U
118-74-1	Hexachlorobenzene	740	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	**Phenanthrene**	2100	
120-12-7	**Anthracene**	190	J
84-74-2	**Di-n-butylphthalate**	~~420~~ 740	~~JB~~ U
206-44-0	Fluoranthene	740	U
129-00-0	**Pyrene**	560	J
85-68-7	Butylbenzylphthalate	740	U
56-55-3	**Benzo(a)anthracene**	350	J
91-94-1	**3,3'-Dichlorobenzidine**	320	J
218-01-9	**Chrysene**	870	J
117-81-7	**bis(2-Ethylhexyl)phthalate**	~~160~~ 740	~~JB~~ UJ
117-84-0	Di-n-octylphthalate	740	U
205-99-2	**Benzo(b)fluoranthene**	120	J
207-08-9	Benzo(k)fluoranthene	740	U
50-32-8	Benzo(a)pyrene	740	U
193-39-5	Indeno(1,2,3-cd)pyrene	740	U
53-70-3	Dibenzo(a,h)anthracene	740	U
191-24-2	Benzo(g,h,i)perylene	740	U

1F

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

S-6(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-1

Sample wt/vol: 30.1 (g/mL) g Lab File ID: EC033118

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 10 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Branched alkane	15.02	620	J
2.	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.35	680	J
3.	000112-40-3	Dodecane	18.34	720	J
4.	000120-82-1	Benzene, 1,2,4-trichloro-	19.05	3000	J
5.		Branched alkane	19.36	1600	J
6.	000629-50-5	Tridecane	19.70	1200	J
7.	000090-12-0	Naphthalene, 1-methyl-	20.43	2500	J
8.		Unknown	20.63	1200	J
9.		Unknown alkane	20.88	1200	J
10.		Chlorinated hydrocarbon	21.25	970	J
11.		Methylated naphthalene	21.49	1300	J
12.		Methylated alkane	21.54	1600	J
13.	000571-61-9	Naphthalene, 1,5-dimethyl-	21.67	2300	J
14.		Methylated naphthalene	21.73	1400	J
15.		Unknown	22.28	1400	J
16.		Unknown	22.65	550	J
17.	000629-50-5	Tridecane	22.86	890	J
18.	002131-42-2	Naphthalene, 1,4,6-trimethyl	23.14	1200	J
19.		Methylated alkane	23.27	610	J
20.	001921-70-6	Pentadecane, 2,6,10,14-tetra	23.71	2800	J
21.	000593-45-3	Octadecane	24.33	710	J
22.		Polychlorinated biphenyl	28.06	3800	J
23.		Polychlorinated biphenyl	28.44	3800	J
24.		Polychlorinated biphenyl	29.07	5100	J
25.		Polychlorinated biphenyl	29.40	1900	J
26.		Polychlorinated biphenyl	30.02	1500	J
27.		Polychlorinated biphenyl	30.19	780	J
28.		Polychlorinated biphenyl	31.64	1100	J
29.	052663-75-9	1,1'-Biphenyl, 2,2',3,3',4,5	32.02	520	J
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(0-6")DL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-1DL

Sample wt/vol: 30.1 (g/mL) g Lab File ID: EC040103

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 10 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	3700	U
108-95-2	Phenol	3700	U
111-44-4	bis(2-Chloroethyl)ether	3700	U
95-57-8	2-Chlorophenol	3700	U
541-73-1	**1,3-Dichlorobenzene**	**850**	**JD**
106-46-7	**1,4-Dichlorobenzene**	**820**	**JD**
95-50-1	1,2-Dichlorobenzene	3700	U
100-51-6	Benzyl alcohol	3700	U
95-48-7	2-Methylphenol	3700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3700	U
106-44-5	4-Methylphenol	3700	U
621-64-7	N-Nitroso-di-n-propylamine	3700	U
67-72-1	Hexachloroethane	3700	U
98-95-3	Nitrobenzene	3700	U
78-59-1	Isophorone	3700	U
88-75-5	2-Nitrophenol	3700	U
111-91-1	bis(2-Chloroethoxy)methane	3700	U
120-83-2	2,4-Dichlorophenol	3700	U
120-82-1	**1,2,4-Trichlorobenzene**	**15000**	**D**
91-20-3	**Naphthalene**	**490**	**JD**
106-47-8	4-Chloroaniline	3700	U
87-68-3	Hexachlorobutadiene	3700	U
59-50-7	4-Chloro-3-methylphenol	3700	U
91-57-6	**2-Methylnaphthalene**	**1200**	**JD**
77-47-4	Hexachlorocyclopentadiene	3700	U
88-06-2	2,4,6-Trichlorophenol	3700	U
95-95-4	2,4,5-Trichlorophenol	3700	U
91-58-7	2-Chloronaphthalene	3700	U
88-74-4	2-Nitroaniline	9200	U
131-11-3	Dimethylphthalate	3700	U
208-96-8	Acenaphthylene	3700	U
606-20-2	2,6-Dinitrotoluene	3700	U
99-09-2	3-Nitroaniline	9200	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(0-6")DL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-1DL

Sample wt/vol: 30.1 (g/mL) g Lab File ID: EC040103

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 10 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	3700	U
51-28-5	2,4-Dinitrophenol	9200	U
100-02-7	4-Nitrophenol	9200	U
132-64-9	**Dibenzofuran**	**420**	**JD**
121-14-2	2,4-Dinitrotoluene	3700	U
86-73-7	Fluorene	3700	U
7005-72-3	4-Chlorophenyl-phenylether	3700	U
100-01-6	4-Nitroaniline	9200	U
534-52-1	4,6-Dinitro-2-methylphenol	9200	U
86-30-6	**N-Nitrosodiphenylamine**	**970**	**JD**
101-55-3	4-Bromophenyl-phenylether	3700	U
118-74-1	Hexachlorobenzene	3700	U
87-86-5	Pentachlorophenol	9200	U
85-01-8	**Phenanthrene**	**2300**	**JD**
120-12-7	Anthracene	3700	U
84-74-2	**Di-n-butylphthalate**	~~**510**~~ 3700	~~**JDB**~~ U
206-44-0	Fluoranthene	3700	U
129-00-0	**Pyrene**	**640**	**JD**
85-68-7	Butylbenzylphthalate	3700	U
56-55-3	Benzo(a)anthracene	3700	U
91-94-1	3,3'-Dichlorobenzidine	7400	U
218-01-9	**Chrysene**	**770**	**JD**
117-81-7	bis(2-Ethylhexyl)phthalate	3700	U
117-84-0	Di-n-octylphthalate	3700	U
205-99-2	Benzo(b)fluoranthene	3700	U
207-08-9	Benzo(k)fluoranthene	3700	U
50-32-8	Benzo(a)pyrene	3700	U
193-39-5	Indeno(1,2,3-cd)pyrene	3700	U
53-70-3	Dibenzo(a,h)anthracene	3700	U
191-24-2	Benzo(g,h,i)perylene	3700	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(0-6")D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-2

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC040104

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 12 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	3700	U
108-95-2	Phenol	3700	U
111-44-4	bis(2-Chloroethyl)ether	3700	U
95-57-8	2-Chlorophenol	3700	U
541-73-1	**1,3-Dichlorobenzene**	**800**	**J**
106-46-7	**1,4-Dichlorobenzene**	**720**	**J**
95-50-1	1,2-Dichlorobenzene	3700	U
100-51-6	Benzyl alcohol	3700	U
95-48-7	2-Methylphenol	3700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3700	U
106-44-5	4-Methylphenol	3700	U
621-64-7	N-Nitroso-di-n-propylamine	3700	U
67-72-1	Hexachloroethane	3700	U
98-95-3	Nitrobenzene	3700	U
78-59-1	Isophorone	3700	U
88-75-5	2-Nitrophenol	3700	U
111-91-1	bis(2-Chloroethoxy)methane	3700	U
120-83-2	2,4-Dichlorophenol	3700	U
120-82-1	**1,2,4-Trichlorobenzene**	**12000**	
91-20-3	**Naphthalene**	**400**	**J**
106-47-8	4-Chloroaniline	3700	U
87-68-3	Hexachlorobutadiene	3700	U
59-50-7	4-Chloro-3-methylphenol	3700	U
91-57-6	**2-Methylnaphthalene**	**1000**	**J**
77-47-4	Hexachlorocyclopentadiene	3700	U
88-06-2	2,4,6-Trichlorophenol	3700	U
95-95-4	2,4,5-Trichlorophenol	3700	U
91-58-7	2-Chloronaphthalene	3700	U
88-74-4	2-Nitroaniline	9300	U
131-11-3	Dimethylphthalate	3700	U
208-96-8	Acenaphthylene	3700	U
606-20-2	2,6-Dinitrotoluene	3700	U
99-09-2	3-Nitroaniline	9300	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(0-6")D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-2

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC040104

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 12 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	3700	U
51-28-5	2,4-Dinitrophenol	9300	U
100-02-7	4-Nitrophenol	9300	U
132-64-9	**Dibenzofuran**	**420**	**J**
121-14-2	2,4-Dinitrotoluene	3700	U
86-73-7	Fluorene	3700	U
7005-72-3	4-Chlorophenyl-phenylether	3700	U
100-01-6	4-Nitroaniline	9300	U
534-52-1	4,6-Dinitro-2-methylphenol	9300	U
86-30-6	**N-Nitrosodiphenylamine**	**860**	**J**
101-55-3	4-Bromophenyl-phenylether	3700	U
118-74-1	Hexachlorobenzene	3700	U
87-86-5	Pentachlorophenol	9300	U
85-01-8	**Phenanthrene**	**2300**	**J**
120-12-7	Anthracene	3700	U
84-74-2	**Di-n-butylphthalate**	~~530~~ 3700	**JB**
206-44-0	Fluoranthene	3700	U
129-00-0	**Pyrene**	**540**	**J**
85-68-7	Butylbenzylphthalate	3700	U
56-55-3	Benzo(a)anthracene	3700	U
91-94-1	3,3'-Dichlorobenzidine	7500	U
218-01-9	**Chrysene**	**700**	**J**
117-81-7	**bis(2-Ethylhexyl)phthalate**	~~1000~~ 3700	**JB**
117-84-0	Di-n-octylphthalate	3700	U
205-99-2	Benzo(b)fluoranthene	3700	U
207-08-9	Benzo(k)fluoranthene	3700	U
50-32-8	Benzo(a)pyrene	3700	U
193-39-5	Indeno(1,2,3-cd)pyrene	3700	U
53-70-3	Dibenzo(a,h)anthracene	3700	U
191-24-2	Benzo(g,h,i)perylene	3700	U

1F

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

S-6(0-6")D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-2

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC040104

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 12 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000120-82-1	Benzene, 1,2,4-trichloro-	19.03	2000	J
2.	000581-40-8	Naphthalene, 2,3-dimethyl-	21.64	1600	J
3.		Unknown	21.88	1600	J
4.	002245-38-7	Naphthalene, 1,6,7-trimethyl	22.96	1500	J
5.	000829-26-5	Naphthalene, 2,3,6-trimethyl	23.38	1800	J
6.		Unknown alkane	23.62	1600	J
7.	001921-70-6	Pentadecane, 2,6,10,14-tetra	23.68	2600	J
8.		Unknown	24.48	1800	J
9.		Polychlorinated biphenyl	27.80	1700	J
10.	035065-27-1	1,1'-Biphenyl, 2,2',4,4',5,5	28.01	5800	J
11.	035065-27-1	1,1'-Biphenyl, 2,2',4,4',5,5	28.39	5900	J
12.	035065-27-1	1,1'-Biphenyl, 2,2',4,4',5,5	29.03	4400	J
13.		Unknown	29.34	2100	J
14.		Unknown	30.59	3200	J
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
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29.					
30.					

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-6(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-5

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC033115

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 8 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	360	U
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	**1,3-Dichlorobenzene**	**84**	**J**
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	**1,2,4-Trichlorobenzene**	**760**	
91-20-3	**Naphthalene**	**77**	**J**
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	**2-Methylnaphthalene**	**170**	**J**
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	890	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-5

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC033115

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 8 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	890	U
100-02-7	4-Nitrophenol	890	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	890	U
534-52-1	4,6-Dinitro-2-methylphenol	890	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	890	U
85-01-8	**Phenanthrene**	**420**	
120-12-7	Anthracene	360	U
84-74-2	**Di-n-butylphthalate**	~~310~~ 360	**JB** U
206-44-0	Fluoranthene	360	U
129-00-0	**Pyrene**	**170**	**J**
85-68-7	Butylbenzylphthalate	360	U U
56-55-3	**Benzo(a)anthracene**	**79**	**J**
91-94-1	3,3'-Dichlorobenzidine	720	U U
218-01-9	**Chrysene**	**140**	**J**
117-81-7	**bis(2-Ethylhexyl)phthalate**	~~110~~ 360	**JB** U
117-84-0	Di-n-octylphthalate	360	U U
205-99-2	Benzo(b)fluoranthene	360	U U
207-08-9	Benzo(k)fluoranthene	360	U U
50-32-8	Benzo(a)pyrene	360	U U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U U
53-70-3	Dibenzo(a,h)anthracene	360	U U
191-24-2	Benzo(g,h,i)perylene	360	U U

1F

SAMPLE NO.

S-6(6-18")

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-5

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC033115

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 8 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	5.14	250	J
2.	002233-00-3	1-Propene, 3,3,3-trichloro-	13.23	220	J
3.		Unknown hydrocarbon	16.93	260	J
4.	000087-61-6	Benzene, 1,2,3-trichloro-	19.05	220	J
5.		Methylated alkane	19.37	400	J
6.		Unknown	19.60	170	J
7.		Unknown hydrocarbon	19.71	290	J
8.	000090-12-0	Naphthalene, 1-methyl-	20.44	270	J
9.	003891-98-3	Dodecane, 2,6,10-trimethyl-	20.65	200	J
10.		Unknown	21.10	250	J
11.	001921-70-6	Pentadecane, 2,6,10,14-tetra	23.74	1400	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(6-18")DL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-5DL

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC040107

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 8 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	3600	U
108-95-2	Phenol	3600	U
111-44-4	bis(2-Chloroethyl)ether	3600	U
95-57-8	2-Chlorophenol	3600	U
541-73-1	1,3-Dichlorobenzene	3600	U
106-46-7	1,4-Dichlorobenzene	3600	U
95-50-1	1,2-Dichlorobenzene	3600	U
100-51-6	Benzyl alcohol	3600	U
95-48-7	2-Methylphenol	3600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3600	U
106-44-5	4-Methylphenol	3600	U
621-64-7	N-Nitroso-di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	U
98-95-3	Nitrobenzene	3600	U
78-59-1	Isophorone	3600	U
88-75-5	2-Nitrophenol	3600	U
111-91-1	bis(2-Chloroethoxy)methane	3600	U
120-83-2	2,4-Dichlorophenol	3600	U
120-82-1	**1,2,4-Trichlorobenzene**	**680**	**JD**
91-20-3	Naphthalene	3600	U
106-47-8	4-Chloroaniline	3600	U
87-68-3	Hexachlorobutadiene	3600	U
59-50-7	4-Chloro-3-methylphenol	3600	U
91-57-6	2-Methylnaphthalene	3600	U
77-47-4	Hexachlorocyclopentadiene	3600	U
88-06-2	2,4,6-Trichlorophenol	3600	U
95-95-4	2,4,5-Trichlorophenol	3600	U
91-58-7	2-Chloronaphthalene	3600	U
88-74-4	2-Nitroaniline	8900	U
131-11-3	Dimethylphthalate	3600	U
208-96-8	Acenaphthylene	3600	U
606-20-2	2,6-Dinitrotoluene	3600	U
99-09-2	3-Nitroaniline	8900	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(6-18")DL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-5DL

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EC040107

Level: (low/med) LOW Date Received: 03/30/99

% Moisture: 8 decanted: (Y/N) N Date Extracted:03/30/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	3600	U
51-28-5	2,4-Dinitrophenol	8900	U
100-02-7	4-Nitrophenol	8900	U
132-64-9	Dibenzofuran	3600	U
121-14-2	2,4-Dinitrotoluene	3600	U
86-73-7	Fluorene	3600	U
7005-72-3	4-Chlorophenyl-phenylether	3600	U
100-01-6	4-Nitroaniline	8900	U
534-52-1	4,6-Dinitro-2-methylphenol	8900	U
86-30-6	N-Nitrosodiphenylamine	3600	U
101-55-3	4-Bromophenyl-phenylether	3600	U
118-74-1	Hexachlorobenzene	3600	U
87-86-5	Pentachlorophenol	8900	U
85-01-8	**Phenanthrene**	**500**	**JD**
120-12-7	Anthracene	3600	U
84-74-2	**Di-n-butylphthalate**	**360** 3600	**JDB** U
206-44-0	Fluoranthene	3600	U
129-00-0	Pyrene	3600	U
85-68-7	Butylbenzylphthalate	3600	U
56-55-3	Benzo(a)anthracene	3600	U
91-94-1	3,3'-Dichlorobenzidine	7200	U
218-01-9	Chrysene	3600	U
117-81-7	bis(2-Ethylhexyl)phthalate	3600	U
117-84-0	Di-n-octylphthalate	3600	U
205-99-2	Benzo(b)fluoranthene	3600	U
207-08-9	Benzo(k)fluoranthene	3600	U
50-32-8	Benzo(a)pyrene	3600	U
193-39-5	Indeno(1,2,3-cd)pyrene	3600	U
53-70-3	Dibenzo(a,h)anthracene	3600	U
191-24-2	Benzo(g,h,i)perylene	3600	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-7(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-11

Sample wt/vol: 31 (g/mL) g Lab File ID: EC040115

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 15 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	380	U
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	950	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	950	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-7(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-11

Sample wt/vol: 31 (g/mL) g Lab File ID: EC040115

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 15 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	950	U
100-02-7	4-Nitrophenol	950	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	950	U
534-52-1	4,6-Dinitro-2-methylphenol	950	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	950	U
85-01-8	**Phenanthrene**	**520**	
120-12-7	**Anthracene**	**54**	**J**
84-74-2	Di-n-butylphthalate	380	U
206-44-0	**Fluoranthene**	**500**	
129-00-0	**Pyrene**	**430**	
85-68-7	Butylbenzylphthalate	380	U
56-55-3	**Benzo(a)anthracene**	**200**	**J**
91-94-1	3,3'-Dichlorobenzidine	760	U
218-01-9	**Chrysene**	**240**	**J**
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	**Benzo(b)fluoranthene**	**190**	**J**
207-08-9	**Benzo(k)fluoranthene**	**200**	**J**
50-32-8	**Benzo(a)pyrene**	**190**	**J**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**44**	**J**
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

S-7(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-11

Sample wt/vol: 31 (g/mL) g Lab File ID: EC040115

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 15 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	5.79	310	J
2.	000141-79-7	3-Penten-2-one, 4-methyl-	8.56	17000	JAB
3.	000123-42-2	2-Pentanone, 4-hydroxy-4-met	9.98	28000	JAB
4.		Unknown	12.55	420	J
5.		Polychlorinated biphenyl	28.00	260	J
6.		Polychlorinated biphenyl	28.38	290	J
7.		Polychlorinated biphenyl	29.02	250	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-7(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-12

Sample wt/vol: 30.6 (g/mL) g Lab File ID: EC040116

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 13 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	380	U
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	940	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-7(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-12

Sample wt/vol: 30.6 (g/mL) g Lab File ID: EC040116

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 13 decanted: (Y/N) N Date Extracted:04/01/99

Concentrated Extract Volume:1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	380	U
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-Nitrosodiphenylamine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	940	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	**Fluoranthene**	**48**	**J**
129-00-0	**Pyrene**	**47**	**J**
85-68-7	Butylbenzylphthalate	380	U
56-55-3	Benzo(a)anthracene	380	U
91-94-1	3,3'-Dichlorobenzidine	750	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

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SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

S-7(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-12

Sample wt/vol: 30.6 (g/mL) g Lab File ID: EC040116

Level: (low/med) LOW Date Received: 03/31/99

% Moisture: 13 decanted: (Y/N) N Date Extracted: 04/01/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	000141-79-7	3-Penten-2-one, 4-methyl-	8.57	14000	JAB
2.	000123-42-2	2-Pentanone, 4-hydroxy-4-met	9.95	22000	JAB
3.		Unknown	12.55	360	J
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PCB ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 Method 8082 as referenced in NYSDEC-ASP.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by GC/MS.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for PCB analyses under NYSASP are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times for soils are 14 days from sample collection to extraction and 40 days to analysis and for waters are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed with the specified holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

No Aroclors were detected in the method or rinse blanks.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed. The initial calibration was within the specified limit for all Aroclors.

4.2 Continuing Calibration

A maximum %D of 15 is allowed. All continuing calibration standards were within this limit.

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Surrogates were diluted beyond the range of detection in the majority of the samples, as noted on the attached summary table. No data have been qualified based on diluted surrogates.

6. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns.

All quantitated peaks fell in the appropriate retention time windows.

7. Matrix Spike/Matrix Spike Duplicate

Matrix spike blank data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

Due to the high concentration of Aroclors present in the unspiked sample (greater than 100 times the spike concentration), no matrix spike/matrix spike duplicate recoveries could be calculated.

8. Matrix Spike Blank

All soil matrix spike blank recoveries were within control limits. The water matrix spike blank recovery was, however, above control limits. Since no Aroclors were detected in the water sample (RINSE BLANK), the high recovery has no impact on the reported data.

9. Field Duplicates

No field duplicates were included in this data set. However, based on the results of a field duplicate included in a later SDG, Aroclor 1260 data for all subsurface soil samples have been qualified as estimated

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checksheets

PCB Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all the samples listed on the surrogate recovery form?	X		
Were recoveries of any surrogate outside of specified limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 2			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 1			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?	X		

PCB Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse/equipment blanks have positive results?		X	
Calibration and GC Performance			
Are the following chromatograms and integration reports present?			
Aroclor 1016/1260	X		
Aroclor 1221	X		
Aroclor 1232	X		
Aroclor 1242	X		
Aroclor 1248	X		
Aroclor 1254	X		
Is a calibration summary form present and complete for each analytical sequence?	X		
Are there any transcription/calculation errors between the raw data and the forms?		X	
Are the %RSD for the initial calibration within specified limits for all analytes?	X		
Have all samples been injected within a 12 hour period beginning with the injection of a calibration standard?	X		
Is a continuing calibration summary form present and complete for each continuing standard analyzed?	X		
Are there any transcription/calculation errors between the raw data and the form?		X	
Are all the percent difference (%D) values for all continuing calibration standards within specified limits?	X		
Analytical Sequence			
Is an analytical sequence form present and complete for each column and each period of analyses?	X		
Was the proper analytical sequence followed?	X		
Cleanup Efficiency Verification			
Are percent recoveries of the compounds used to check the efficiency of the cleanup procedure within QC limits?	X		
PCB Identification			
Are RT of sample compounds within the established RT windows?	X		
Were all positively identified compounds confirmed on a second column?	X		

PCB Data Validation Checklist - Page 3

	YES	NO	NA
Was GC/MS confirmation provided when required?			X
Were there any false negatives?		X	
Compound Quantitation and Reported Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
Chromatogram Quality			
Were the baselines stable?	X		
Were any electronegative displacement (negative peaks) or unusual peaks detected?		X	
Field Duplicates			
Were field duplicates submitted with the samples?		X	

PCB Qualifier Summary
Holding Time and Surrogates

Sample ID	Holding Time*	Surrogates*	
		TCX	DCB
S-6(0-6)		D	D
S-6(0-6)MS		D	D
S-6(0-6)MSD		D	D
S-6(0-6)D			
S-6(6-18)		D	D
S-3(0-6)		D	D
S-3(2-3)		D	D
S-5(0-6)			
S-5(6-18)			
RINSE BLANK			
S-1(0-6)		D	D
S-1(1-2)		D	D
S-4(0-6)		D	D
S-4(6-8)			
S-8(0-6)		D	D
S-8(6-18)		D	D
S-2(0-6)		D	D
S-2(6-18)		D	D
S-9(0-6)		D	D
S-9(6-18)		D	D
S-7(0-6)		D	D
S-7(6-18)		D	D
S-11(6-12)			

Surrogates:
TCX Tetrachloro-m-xylene
DCB Decachlorobiphenyl
na Not applicable

Qualifiers:
D Surrogate diluted out
↑ Recovery high
↓ Recovery low

* Unless otherwise noted, all parameters are within specified limits.

PCB Calibration Summary

Instrument: HP9B
Column: DB-608

Date:	1/21/99-1/22/99	3/31/99	3/31/99	3/31/99	3/31/99	4/1/99	4/1/99	4/1/99
Time:		1025	1110	1843	1906	0347	1054	2015
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016	ok		ok		ok	ok	ok	ok
Aroclor 1221	ok							
Aroclor 1232	ok							
Aroclor 1242	ok							
Aroclor 1248	ok	ok		ok				
Aroclor 1254	ok							
Aroclor 1260	ok		ok		ok	ok	ok	ok
Tetrachloro-m-xylene	ok							
Decachlorobiphenyl	ok							

Affected Samples:

vlj2166

PCB Calibration Summary - Page 2

Instrument: HP9B
Column: DB-608

Date:		4/5/99	4/5/99	4/5/99	4/6/99	4/6/99		
Time:		1149	1644	2030	0957	1331		
	Initial Cal.	Cont Cal.	Cont Cal.	Cont Cal.	Cont. Cal.	Cont Cal.	Cont Cal.	Cont Cal.
	%RSD	%D	%D	%D	%D	%D	%D	%D
Aroclor 1016		ok	ok	ok	ok	ok		
Aroclor 1221								
Aroclor 1232								
Aroclor 1242								
Aroclor 1248								
Aroclor 1254								
Aroclor 1260		ok	ok	ok	ok	ok		
Tetrachloro-m-xylene								
Decachlorobiphenyl								

Affected Samples:

Corrected Sample Analysis Data Sheets

1D

SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

RINSE BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L49971

Matrix: (soil/water) WATER Lab Sample ID: L49971-13

Sample wt/vol: 1000 (g/mL) mL Lab File ID: HP9B\B033108

% Moisture: decanted: (Y/N) N Date Received: 03/30/99

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:03/31/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	0.5	U
11096-82-5	Aroclor-1260	0.5	U

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-3(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-6

Sample wt/vol: 30.7 (g/mL) g Lab File ID: HP9B\B040119

% Moisture: 11 decanted: (Y/N) N Date Received: 03/30/99

Extraction: (SepF/Cont/Sonc) SOXH Date Extracted:03/31/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	180	UD
11104-28-2	Aroclor-1221	180	UD
11141-16-5	Aroclor-1232	180	UD
53469-21-9	Aroclor-1242	180	UD
12672-29-6	Aroclor-1248	180	UD
11097-69-1	Aroclor-1254	180	UD
11096-82-5	**Aroclor-1260**	**1700**	D

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-3(2-3')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-7

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\B040123

% Moisture: 13 decanted: (Y/N) N Date Received: 03/30/99

Extraction: (SepF/Cont/Sonc) SOXH Date Extracted:03/31/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	1900	UD
11104-28-2	Aroclor-1221	1900	UD
11141-16-5	Aroclor-1232	1900	UD
53469-21-9	Aroclor-1242	1900	UD
12672-29-6	Aroclor-1248	1900	UD
11097-69-1	Aroclor-1254	1900	UD
11096-82-5	**Aroclor-1260**	**22000**	**D**

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-5(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-11

Sample wt/vol: 30.7 (g/mL) g Lab File ID: HP9B\B033121

% Moisture: 7 decanted: (Y/N) N Date Received: 03/30/99

Extraction: (SepF/Cont/Sonc) SOXH Date Extracted:03/31/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	18	U
11104-28-2	Aroclor-1221	18	U
11141-16-5	Aroclor-1232	18	U
53469-21-9	Aroclor-1242	18	U
12672-29-6	Aroclor-1248	18	U
11097-69-1	Aroclor-1254	18	U
11096-82-5	**Aroclor-1260**	**78**	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-5(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-12

Sample wt/vol: 30.3 (g/mL) g Lab File ID: HP9B\B033122

% Moisture: 7 decanted: (Y/N) N Date Received: 03/30/99

Extraction: (SepF/Cont/Sonc) SOXH Date Extracted:03/31/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/31/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	18	U
11104-28-2	Aroclor-1221	18	U
11141-16-5	Aroclor-1232	18	U
53469-21-9	Aroclor-1242	18	U
12672-29-6	Aroclor-1248	18	U
11097-69-1	Aroclor-1254	18	U
11096-82-5	Aroclor-1260	18	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-1

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\B040107

% Moisture: 10 decanted: (Y/N) N Date Received: 03/30/99

Extraction: (SepF/Cont/Sonc) SOXH Date Extracted:03/31/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 400.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	7400	UD
11104-28-2	Aroclor-1221	7400	UD
11141-16-5	Aroclor-1232	7400	UD
53469-21-9	Aroclor-1242	7400	UD
12672-29-6	Aroclor-1248	7400	UD
11097-69-1	Aroclor-1254	7400	UD
11096-82-5	**Aroclor-1260**	**130000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(0-6")D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-2

Sample wt/vol: 30.4 (g/mL) g Lab File ID: HP9B\B040108

% Moisture: 12 decanted: (Y/N) N Date Received: 03/30/99

Extraction: (SepF/Cont/Sonc) SOXH Date Extracted:03/31/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 400.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	7500	UD
11104-28-2	Aroclor-1221	7500	UD
11141-16-5	Aroclor-1232	7500	UD
53469-21-9	Aroclor-1242	7500	UD
12672-29-6	Aroclor-1248	7500	UD
11097-69-1	Aroclor-1254	7500	UD
11096-82-5	**Aroclor-1260**	**120000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-6(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 2 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L49971-5

Sample wt/vol: 30.6 (g/mL) g Lab File ID: HP9B\B040120

% Moisture: 8 decanted: (Y/N) N Date Received: 03/30/99

Extraction: (SepF/Cont/Sonc) SOXH Date Extracted:03/31/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/01/99

Injection Volume: 1.0 (uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	1800	UD
11104-28-2	Aroclor-1221	1800	UD
11141-16-5	Aroclor-1232	1800	UD
53469-21-9	Aroclor-1242	1800	UD
12672-29-6	Aroclor-1248	1800	UD
11097-69-1	Aroclor-1254	1800	UD
11096-82-5	**Aroclor-1260**	**14000**	D J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-1(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-1

Sample wt/vol: 31 (g/mL) g Lab File ID: HP9B\B040506

% Moisture: 7 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	170	UD
11104-28-2	Aroclor-1221	170	UD
11141-16-5	Aroclor-1232	170	UD
53469-21-9	Aroclor-1242	170	UD
12672-29-6	Aroclor-1248	170	UD
11097-69-1	Aroclor-1254	170	UD
11096-82-5	**Aroclor-1260**	**2400**	**D**

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-1(1-2')

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-2

Sample wt/vol: 31.5 (g/mL) g Lab File ID: HP9B\B040522

% Moisture: 5 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	330	UD
11104-28-2	Aroclor-1221	330	UD
11141-16-5	Aroclor-1232	330	UD
53469-21-9	Aroclor-1242	330	UD
12672-29-6	Aroclor-1248	330	UD
11097-69-1	Aroclor-1254	330	UD
11096-82-5	**Aroclor-1260**	**4800**	D J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-11(6-12")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-13

Sample wt/vol: 30.1 (g/mL) g Lab File ID: HP9B\B040521

% Moisture: 12 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	94	UD
11104-28-2	Aroclor-1221	94	UD
11141-16-5	Aroclor-1232	94	UD
53469-21-9	Aroclor-1242	94	UD
12672-29-6	Aroclor-1248	94	UD
11097-69-1	Aroclor-1254	94	UD
11096-82-5	**Aroclor-1260**	**560**	**D** J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-2(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-7

Sample wt/vol: 31.4 (g/mL) g Lab File ID: HP9B\B040512

% Moisture: 14 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	370	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	**Aroclor-1260**	**2700**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-2(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-8

Sample wt/vol: 30.2 (g/mL) g Lab File ID: HP9B\B040513

% Moisture: 14 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	380	UD
11104-28-2	Aroclor-1221	380	UD
11141-16-5	Aroclor-1232	380	UD
53469-21-9	Aroclor-1242	380	UD
12672-29-6	Aroclor-1248	380	UD
11097-69-1	Aroclor-1254	380	UD
11096-82-5	**Aroclor-1260**	**2800**	**D**

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-4(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-3

Sample wt/vol: 31 (g/mL) g Lab File ID: HP9B\B040508

% Moisture: 12 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	180	UD
11104-28-2	Aroclor-1221	180	UD
11141-16-5	Aroclor-1232	180	UD
53469-21-9	Aroclor-1242	180	UD
12672-29-6	Aroclor-1248	180	UD
11097-69-1	Aroclor-1254	180	UD
11096-82-5	**Aroclor-1260**	**1900**	**D**

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-4(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-4

Sample wt/vol: 30.7 (g/mL) g Lab File ID: HP9B\B040509

% Moisture: 10 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	18	U
11104-28-2	Aroclor-1221	18	U
11141-16-5	Aroclor-1232	18	U
53469-21-9	Aroclor-1242	18	U
12672-29-6	Aroclor-1248	18	U
11097-69-1	Aroclor-1254	18	U
11096-82-5	**Aroclor-1260**	**170**	J

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-7(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-11

Sample wt/vol: 32 (g/mL) g Lab File ID: HP9B\B040606

% Moisture: 15 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/06/99

Injection Volume: 1.0 (uL) Dilution Factor: 40.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	740	UD
11104-28-2	Aroclor-1221	740	UD
11141-16-5	Aroclor-1232	740	UD
53469-21-9	Aroclor-1242	740	UD
12672-29-6	Aroclor-1248	740	UD
11097-69-1	Aroclor-1254	740	UD
11096-82-5	**Aroclor-1260**	**7800**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-7(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-12

Sample wt/vol: 30.7 (g/mL) g Lab File ID: HP9B\B040520

% Moisture: 13 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	190	UD
11104-28-2	Aroclor-1221	190	UD
11141-16-5	Aroclor-1232	190	UD
53469-21-9	Aroclor-1242	190	UD
12672-29-6	Aroclor-1248	190	UD
11097-69-1	Aroclor-1254	190	UD
11096-82-5	**Aroclor-1260**	**2000**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-8(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-5

Sample wt/vol: 30.5 (g/mL) g Lab File ID: HP9B\B040523

% Moisture: 14 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 40.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	760	UD
11104-28-2	Aroclor-1221	760	UD
11141-16-5	Aroclor-1232	760	UD
53469-21-9	Aroclor-1242	760	UD
12672-29-6	Aroclor-1248	760	UD
11097-69-1	Aroclor-1254	760	UD
11096-82-5	**Aroclor-1260**	**11000**	**D**

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-8(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-6

Sample wt/vol: 31.9 (g/mL) g Lab File ID: HP9B\B040524

% Moisture: 15 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 40.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	740	UD
11104-28-2	Aroclor-1221	740	UD
11141-16-5	Aroclor-1232	740	UD
53469-21-9	Aroclor-1242	740	UD
12672-29-6	Aroclor-1248	740	UD
11097-69-1	Aroclor-1254	740	UD
11096-82-5	**Aroclor-1260**	**8600**	D

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

S-9(0-6")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-9

Sample wt/vol: 31.8 (g/mL) g Lab File ID: HP9B\B040525

% Moisture: 15 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/05/99

Injection Volume: 1.0 (uL) Dilution Factor: 40.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	740	UD
11104-28-2	Aroclor-1221	740	UD
11141-16-5	Aroclor-1232	740	UD
53469-21-9	Aroclor-1242	740	UD
12672-29-6	Aroclor-1248	740	UD
11097-69-1	Aroclor-1254	740	UD
11096-82-5	**Aroclor-1260**	**8100**	**D**

FORM I PEST

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.: S-9(6-18")

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 3 SAS No.: SDG No.: L49971

Matrix: (soil/water) SOIL Lab Sample ID: L50026-10

Sample wt/vol: 30.7 (g/mL) g Lab File ID: HP9B\B040611

% Moisture: 15 decanted: (Y/N) N Date Received: 03/31/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:04/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/06/99

Injection Volume: 1.0 (uL) Dilution Factor: 80.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
12674-11-2	Aroclor-1016	1500	UD
11104-28-2	Aroclor-1221	1500	UD
11141-16-5	Aroclor-1232	1500	UD
53469-21-9	Aroclor-1242	1500	UD
12672-29-6	Aroclor-1248	1500	UD
11097-69-1	Aroclor-1254	1500	UD
11096-82-5	**Aroclor-1260**	**16000**	**D** J

INORGANIC ANALYSES

Introduction

Analyses were performed according to USEPA SW-846 methods.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

E The reported value is estimated due to the presence of interference.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

S Reported value was determined by the method of standard additions (MSA).

W Post-digestion spike for Furnace-AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.

* Duplicate analysis not within control limits.

\+ Correlation coefficient for MSA is less than 0.995.

Validation qualifiers:

J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for inorganic analyses under NYSASP protocols is as follows. All holding times are measured from validated time of sample receipt (VTSR).

Metals (other than mercury)	180 days
Mercury	26 days
Cyanide	12 days

The technical holding times for inorganic analyses is as follows. All holding times are measured from date of collection.

Metals (other than mercury)	180 days
Mercury	28 days
Cyanide	14 days

All samples were analyzed within specified holding times.

2. Blank Contamination

Quality assurance blanks, i.e., method, field, or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Field and rinse blanks measure contamination of samples during field operations.

All calibration and preparation blanks were found to be acceptable, with no analytes detected above the CRDL. Several compounds were detected above the CRDL in the rinse blank. However, since the concentrations in the samples were greater than five times that in the blank, the blank content has no impact on the reported data.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP

analytes and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All CRDL standard recoveries were within control limits.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

All matrix spike recoveries were within control limits, with the following exceptions:

Soil	Antimony	46.4%
	Barium	229.2%

Antimony and barium data have been qualified as estimated in all soil samples based on the recoveries.

4.2 Laboratory Duplicate

All laboratory duplicate results were within control limits, with the following exceptions:

Soil	Lead	50.5%
	Magnesium	34.9%

No data have been qualified based on the duplicate results.

5. Field Duplicate

No field duplicates were included in this data set.

6. Laboratory Control Sample (LCS)

All LCS recoveries were within control limits.

7. Serial Dilution

All serial dilution results were acceptable, with the following exceptions:

Lead	17.6%
Potassium	25.0%
Zinc	11.7%

All lead, potassium and zinc data have been qualified as estimated based on the results.

8. Furnace QC

No furnace analyses were performed on the samples in this data set.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checksheets

Inorganic Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?		X	
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Form I to IX			
Are all the Form I through Form IX labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?	X		
Is the distillation log for cyanides present?	X		
Are pH values listed?		X	
pH for metals analyses <2 (waters)?			X
pH for cyanide analyses >12 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Cyanides	X		
Is the data legible?	X		
Is the data properly labeled?	X		

Inorganic Data Validation Checklist - Page 2

	YES	NO	NA
Holding Times			
Were mercury analyses performed within 28 days?	X		
Were cyanide distillations performed within 14 days?	X		
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Are all "less than IDL" values properly coded with "U"?	X		
Are the correct concentration qualifiers used with final data?	X		
Is a physical description of samples given on Form I's?	X		
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Cyanides?	X		
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?	X		
Cyanide Analysis?	X		
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Cyanides (85-115%)?	X		

	YES	NO	NA
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?	X		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?			X
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?	X		
Was a CRDL standard (CRI) analyzed for each ICP run?	X		
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	X		
Are CRA and CRI standards within control limits for metals (80-120%)?	X		
Is mid-range standard within control limits for cyanide (80-120%)	X		
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	X		
each batch of digested samples?	X		
each matrix type?	X		
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X
Is concentration of prep. blank below the negative CRDL?		X	

	YES	NO	NA
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation)			
Present and complete for:			
each SDG?	X		
each matrix type?	X		
Was field blank used for spiked sample?	X		
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits (75-125)?		X	
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?	X		
Aqueous			
Are any spike recoveries:			
less than 75%?		X	
greater then 125%?		X	
Soil/Sediment			
Are any spike recoveries:			
less than 75%?	X		
greater than 125%?	X		
Form VI (Lab Duplicates)			
Present and complete for:			
each SDG?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?	X		
Are all values within control limits (RPD 20% or difference ≤ ±CRDL)?		X	
If no, are all results outside the control limits flagged with an * on Form I's and VI?	X		

	YES	NO	NA
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?		X	
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?		X	
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) > 100%?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?		X	
Field Duplicates			
Were field duplicates analyzed?		X	
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?			X
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each SDG?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 80%?		X	
greater than 120%?		X	
Solid LCS			
Is LCS "Found" value higher than the control limits?		X	
Is LCS "Found" lower than the control limits?		X	

	YES	NO	NA
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?		X	
Was field blank(s) used for Serial Dilution Analysis?		X	
Are results outside control limit flagged with an "E"" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater.	X		
Are any % difference values:			
> 10%?	X		
≥100%?		X	
Furnace Atomic Absorbtion (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Were dilutions analyzed for samples with analytical spike recovery less than 40%?			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Form VIII (Method of Standard Addition Results)			
Present?		X	
Was MSA required for any sample but not performed?		X	
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample.		X	
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if greater than CRDL)			X

	YES	NO	NA
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?		X	
If no, was field blank value already rejected due to other QC criteria?		X	
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP?		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?		X	
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

Corrected Sample Analysis Data Sheets

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

RINSE BLANK

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Water Lab Sample ID: L49971-13

Level (low/med): LOW Date Received: 03/30/99

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	642			P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	4.0	U		P
7440-39-3	Barium	2.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	1090	B		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	B		P
7439-89-6	Iron	304			P
7439-92-1	Lead	3.2		*	P
7439-95-4	Magnesium	157	B		P
7439-96-5	Manganese	7.5	B		P
7439-97-6	Mercury	0.10	U		AV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	310	B		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	213	U		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	16.5	B		P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-1(0-6)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L50026-1

Level (low/med): LOW Date Received: 03/31/99

% Solids: 92.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12300			P
7440-36-0	Antimony	0.65	U	N	P
7440-38-2	Arsenic	8.6			P
7440-39-3	Barium	81.0		N	P
7440-41-7	Beryllium	0.73			P
7440-43-9	Cadmium	0.55			P
7440-70-2	Calcium	17700			P
7440-47-3	Chromium	18.3			P
7440-48-4	Cobalt	11.2			P
7440-50-8	Copper	34.3			P
7439-89-6	Iron	34300			P
7439-92-1	Lead	41.9		E*	P
7439-95-4	Magnesium	7360		*	P
7439-96-5	Manganese	801			P
7439-97-6	Mercury	0.06	B		AV
7440-02-0	Nickel	25.3			P
7440-09-7	Potassium	1400		E	P
7782-49-2	Selenium	0.33	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	188	B		P
7440-28-0	Thallium	0.65	U		P
7440-62-2	Vanadium	21.6			P
7440-66-6	Zinc	108		E	P
57-12-5	Cyanide	0.84			C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-1(1-2)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L50026-2

Level (low/med): LOW Date Received: 03/31/99

% Solids: 95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18600			P
7440-36-0	Antimony	0.63	U	N	P
7440-38-2	Arsenic	8.0			P
7440-39-3	Barium	118		N	P
7440-41-7	Beryllium	0.99			P
7440-43-9	Cadmium	0.51	B		P
7440-70-2	Calcium	2600			P
7440-47-3	Chromium	27.8			P
7440-48-4	Cobalt	18.8			P
7440-50-8	Copper	45.9			P
7439-89-6	Iron	39700			P
7439-92-1	Lead	21.2		E*	P
7439-95-4	Magnesium	9510		*	P
7439-96-5	Manganese	1420			P
7439-97-6	Mercury	0.05	U		AV
7440-02-0	Nickel	38.8			P
7440-09-7	Potassium	2090		E	P
7782-49-2	Selenium	0.31	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	158	B		P
7440-28-0	Thallium	0.63	U		P
7440-62-2	Vanadium	27.4			P
7440-66-6	Zinc	77.7		E	P
57-12-5	Cyanide	0.48	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-2(0-6)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L50026-7

Level (low/med): LOW Date Received: 03/31/99

% Solids: 85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20400			P
7440-36-0	Antimony	0.70	U	N J	P
7440-38-2	Arsenic	11.7			P
7440-39-3	Barium	357		N J	P
7440-41-7	Beryllium	2.7			P
7440-43-9	Cadmium	0.91			P
7440-70-2	Calcium	55300			P
7440-47-3	Chromium	19.4			P
7440-48-4	Cobalt	11.6			P
7440-50-8	Copper	31.6			P
7439-89-6	Iron	45400			P
7439-92-1	Lead	47.6		E* J	P
7439-95-4	Magnesium	9890		*	P
7439-96-5	Manganese	1710			P
7439-97-6	Mercury	0.06	B		AV
7440-02-0	Nickel	24.1			P
7440-09-7	Potassium	1640		E J	P
7782-49-2	Selenium	0.35	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	1100			P
7440-28-0	Thallium	0.70	U		P
7440-62-2	Vanadium	34.7			P
7440-66-6	Zinc	243		E J	P
57-12-5	Cyanide	0.54	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-2(6-18)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L50026-8

Level (low/med): LOW Date Received: 03/31/99

% Solids: 85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21200			P
7440-36-0	Antimony	0.70	U	N J	P
7440-38-2	Arsenic	11.7			P
7440-39-3	Barium	382		N J	P
7440-41-7	Beryllium	3.0			P
7440-43-9	Cadmium	0.87			P
7440-70-2	Calcium	71600			P
7440-47-3	Chromium	15.3			P
7440-48-4	Cobalt	9.8			P
7440-50-8	Copper	33.6			P
7439-89-6	Iron	39500			P
7439-92-1	Lead	44.7		E* J	P
7439-95-4	Magnesium	9730		*	P
7439-96-5	Manganese	1950			P
7439-97-6	Mercury	0.08	B		AV
7440-02-0	Nickel	21.7			P
7440-09-7	Potassium	1720		E J	P
7782-49-2	Selenium	0.35	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	1340			P
7440-28-0	Thallium	0.70	U		P
7440-62-2	Vanadium	27.5			P
7440-66-6	Zinc	131		E J	P
57-12-5	Cyanide	0.88			C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

ROCKS

CA WAS ANALYZED AT A 5X DILUTION.

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-3(0-6)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L49971-6

Level (low/med): LOW Date Received: 03/30/99

% Solids: 89.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18100			P
7440-36-0	Antimony	0.67	U	N	P
7440-38-2	Arsenic	9.9			P
7440-39-3	Barium	300		N	P
7440-41-7	Beryllium	2.3			P
7440-43-9	Cadmium	0.65			P
7440-70-2	Calcium	44800			P
7440-47-3	Chromium	15.2			P
7440-48-4	Cobalt	8.9			P
7440-50-8	Copper	28.8			P
7439-89-6	Iron	33400			P
7439-92-1	Lead	32.3		E*	P
7439-95-4	Magnesium	8440		*	P
7439-96-5	Manganese	1500			P
7439-97-6	Mercury	0.06	U		AV
7440-02-0	Nickel	19.5			P
7440-09-7	Potassium	1790		E	P
7782-49-2	Selenium	0.34	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	939			P
7440-28-0	Thallium	0.67	U		P
7440-62-2	Vanadium	23.1			P
7440-66-6	Zinc	235		E	P
57-12-5	Cyanide	0.54	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-3(2-3)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L49971-7

Level (low/med): LOW Date Received: 03/30/99

% Solids: 86.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15300			P
7440-36-0	Antimony	0.69	U	N	P
7440-38-2	Arsenic	9.8			P
7440-39-3	Barium	271		N	P
7440-41-7	Beryllium	1.7			P
7440-43-9	Cadmium	0.72			P
7440-70-2	Calcium	28600			P
7440-47-3	Chromium	17.0			P
7440-48-4	Cobalt	12.3			P
7440-50-8	Copper	33.4			P
7439-89-6	Iron	32500			P
7439-92-1	Lead	62.7		E*	P
7439-95-4	Magnesium	7010		*	P
7439-96-5	Manganese	1290			P
7439-97-6	Mercury	0.08	B		AV
7440-02-0	Nickel	22.2			P
7440-09-7	Potassium	1590		E	P
7782-49-2	Selenium	0.53	B		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	514	B		P
7440-28-0	Thallium	0.69	U		P
7440-62-2	Vanadium	27.9			P
7440-66-6	Zinc	235		E	P
57-12-5	Cyanide	0.54	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-6(0-6)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L49971-1

Level (low/med): LOW Date Received: 03/30/99

% Solids: 90.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6110			P
7440-36-0	Antimony	0.67	U	N	P
7440-38-2	Arsenic	9.8			P
7440-39-3	Barium	64.8		N	P
7440-41-7	Beryllium	0.73			P
7440-43-9	Cadmium	0.37	B		P
7440-70-2	Calcium	17600			P
7440-47-3	Chromium	12.1			P
7440-48-4	Cobalt	6.7			P
7440-50-8	Copper	22.3			P
7439-89-6	Iron	20200			P
7439-92-1	Lead	26.6		E*	P
7439-95-4	Magnesium	6570		*	P
7439-96-5	Manganese	393			P
7439-97-6	Mercury	0.09	B		AV
7440-02-0	Nickel	15.2			P
7440-09-7	Potassium	1080		E	P
7782-49-2	Selenium	0.59			P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	189	B		P
7440-28-0	Thallium	0.67	U		P
7440-62-2	Vanadium	17.4			P
7440-66-6	Zinc	87.2		E	P
57-12-5	Cyanide	0.52	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-6(0-6)D

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L49971-2

Level (low/med): LOW Date Received: 03/30/99

% Solids: 88.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8580			P
7440-36-0	Antimony	0.68	U	N	P
7440-38-2	Arsenic	10.1			P
7440-39-3	Barium	78.0		N	P
7440-41-7	Beryllium	0.68			P
7440-43-9	Cadmium	0.48	B		P
7440-70-2	Calcium	12300			P
7440-47-3	Chromium	14.8			P
7440-48-4	Cobalt	9.2			P
7440-50-8	Copper	27.5			P
7439-89-6	Iron	24800			P
7439-92-1	Lead	36.6		E*	P
7439-95-4	Magnesium	4990		*	P
7439-96-5	Manganese	527			P
7439-97-6	Mercury	0.12			AV
7440-02-0	Nickel	19.2			P
7440-09-7	Potassium	1470		E	P
7782-49-2	Selenium	0.85			P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	243	B		P
7440-28-0	Thallium	0.68	U		P
7440-62-2	Vanadium	19.3			P
7440-66-6	Zinc	111		E	P
57-12-5	Cyanide	0.56	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-6(6-18)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L49971-5

Level (low/med): LOW Date Received: 03/30/99

% Solids: 92

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15400			P
7440-36-0	Antimony	0.65	U	N	P
7440-38-2	Arsenic	8.0			P
7440-39-3	Barium	84.2		N	P
7440-41-7	Beryllium	0.98			P
7440-43-9	Cadmium	0.35	B		P
7440-70-2	Calcium	3230			P
7440-47-3	Chromium	22.5			P
7440-48-4	Cobalt	18.1			P
7440-50-8	Copper	43.8			P
7439-89-6	Iron	34200			P
7439-92-1	Lead	25.7		E*	P
7439-95-4	Magnesium	7240		*	P
7439-96-5	Manganese	758			P
7439-97-6	Mercury	0.11			AV
7440-02-0	Nickel	34.6			P
7440-09-7	Potassium	2400		E	P
7782-49-2	Selenium	0.32	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	426	B		P
7440-28-0	Thallium	0.65	U		P
7440-62-2	Vanadium	24.7			P
7440-66-6	Zinc	95.2		E	P
57-12-5	Cyanide	0.50	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-7(0-6)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L50026-11

Level (low/med): LOW Date Received: 03/31/99

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13400			P
7440-36-0	Antimony	0.70	U	N	P
7440-38-2	Arsenic	8.5			P
7440-39-3	Barium	123		N	P
7440-41-7	Beryllium	0.89			P
7440-43-9	Cadmium	0.70			P
7440-70-2	Calcium	12400			P
7440-47-3	Chromium	20.8			P
7440-48-4	Cobalt	11.5			P
7440-50-8	Copper	35.3			P
7439-89-6	Iron	29500			P
7439-92-1	Lead	117		E*	P
7439-95-4	Magnesium	7260		*	P
7439-96-5	Manganese	690			P
7439-97-6	Mercury	0.12			AV
7440-02-0	Nickel	25.7			P
7440-09-7	Potassium	1910		E	P
7782-49-2	Selenium	0.35	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	171	B		P
7440-28-0	Thallium	0.70	U		P
7440-62-2	Vanadium	23.1			P
7440-66-6	Zinc	181		E	P
57-12-5	Cyanide	0.58	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

S-7(6-18)

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L49971

Matrix (soil/water): Soil Lab Sample ID: L50026-12

Level (low/med): LOW Date Received: 03/31/99

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13600			P
7440-36-0	Antimony	0.70	U	N	P
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium	71.6		N	P
7440-41-7	Beryllium	0.75			P
7440-43-9	Cadmium	0.31	B		P
7440-70-2	Calcium	8630			P
7440-47-3	Chromium	19.0			P
7440-48-4	Cobalt	10.9			P
7440-50-8	Copper	26.1			P
7439-89-6	Iron	27100			P
7439-92-1	Lead	80.8		E*	P
7439-95-4	Magnesium	5610		*	P
7439-96-5	Manganese	528			P
7439-97-6	Mercury	0.21			AV
7440-02-0	Nickel	22.8			P
7440-09-7	Potassium	1600		E	P
7782-49-2	Selenium	0.35	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	118	B		P
7440-28-0	Thallium	0.70	U		P
7440-62-2	Vanadium	22.3			P
7440-66-6	Zinc	77.7		E	P
57-12-5	Cyanide	0.53	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

Laboratory Narrative

Galson Laboratories

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Mr. John Brussel
Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse, NY 13214

RE: NMPC School Street; Project No. 364.94
SDG L49971

The following package contains the analytical results of the soil samples submitted to our laboratory on March 30, 1999. The samples were received intact and under proper chain of custody. The samples were assigned to logins L49971 and L50026, and sample delivery group (SDG) L49971.

The samples were reported according to ASP Category B guidelines. Samples S-6 (0-6) and S-3 (2-3) were submitted for matrix spike and matrix spike duplicate analyses. The samples were analyzed by SW846 methods 8260, 8270, 8082, 6010/7000 for TAL metals, and 9010 for cyanide.

I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition detailed in the *package review checklists*. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or manager's designee, as verified by the following signature.

Galson Laboratories

Lynda Wilmarth

Date: April 15, 1999

GC/MS VOLATILES PACKAGE REVIEW CHECKLIST

Client: BBL Project: Nine School St SDG: L49971

	YES	NO	NA
DEC FORMS: Present and Complete	✓		
Hold Times Met	✓		

Comments:

FORM 1A: Present and Complete ✓

FORM 1E: Present and Complete ✓
Raw Data Present for All Samples ✓

Comments:

FORM 2A/B: Present and Complete ✓
Surrogate Recoveries in Limits ✓
If No, sample(s) reanalyzed ✓

Comments: S-1 (1-2) surrs high in both initial + reanalysis due to matrix

FORM 3A/B: Present and Complete ✓
Spike Recoveries in Limits ✓

Comments:

FORM 4A: Present and Complete ✓

FORM 5A: Present and Complete ✓

MDLs: Present and Complete ✓

GC/MS VOLATILES PACKAGE REVIEW CHECKLIST

Client: BBL Project: Nims School St SDG: L49971

		YES	NO	NA
FORM 6A:	Present and Complete	✓		
	Calibration(s) Pass	✓		

Comments:

		YES	NO	NA
FORM 7A:	Present and Complete	✓		
	Calibration(s) Pass	✓		

Comments:

		YES	NO	NA
FORM 8A:	Present and Complete	✓		
	Internal Std Areas in Limits		✓	
	If Not, Sample(s) Reanalyzed	✓		

Comments: S-6(6-18") and S-1(1-2)

FORM 1A - Method Blanks, MS/MSD/MSB:

	YES	NO	NA
Present and Complete	✓		
Raw Data Present	✓		
Method Blanks <MDL		✓	
If not, Associated Data Flagged " B"	✓		

Comments: MeCl2

	YES	NO	NA
INTERNAL CHAIN OF CUSTODY: Present	✓		
PERCENT MOISTURE SHEET: Present	✓		

SECTION SUPERVISOR: [signature] DATE: 4/15/99

QC REVIEWER: [signature] DATE: 4/15/99

GC/MS Semivolatile Package Review Checklist

Client : BBL Project : NM-SCHOOL ST. SDG : LA9971

		YES	NO	NA
DEC Forms	present and complete	✓		
	hold times met	✓		

comments :

Internal Chain-of-Custody	present and complete	✓		
Form 2C/2D	present and complete	✓		
	surrogate recoveries within limits	✓		
	sample(s) reanalyzed			✓

comments :

Form 3C/3D	present and complete	✓		
	spike recoveries within limits		✓	

comments : No recovery of one of the compounds in MS/MSD due to high concentration of the compound in the sample. Associated blank spike met recovery criteria.

Form 4B	present and complete	✓		
Form 5B	present and complete	✓		
IDLs	present and complete	✓		
Sample Form 1B/1C/1F	present and complete	✓		
	raw data present for all samples	✓		

comments :

Form 6B/6C	present and complete	✓		
	calibration(s) pass	✓		

comments :

GC/MS Semivolatile Package Review Checklist

Client : BBL Project : NM - SCHOOL ST. SDG : L49971

		YES	NO	NA
Form 7B/7C	present and complete	✓		
	calibration(s) pass	✓		

comments :

Form 8B/8C	present and complete	✓		
	internal standard areas within limits		✓	
	sample(s) reanalyzed	✓		

comments : Samples S-6(6-18") and S-6(0-6") failed internal standard criteria. Reanalyzed at dilution, meeting criteria.

QC Form 1B/1C/1F	present and complete	✓		
	raw data present for all samples	✓		
	method blank results <MDL		✓	
	associated results flagged "B"	✓		

comments :

Calculation Sheet	present	✓		
Instrument Logs	present and complete	✓		
Extraction Logs	present and complete	✓		
Moisture Sheet	present and complete	✓		

additional comments :

Section Supervisor : Oommen V. Kappil Date : 4/13/99

QC Reviewer : [signature] Date : 4/14/99

Method 8082 PCB Package Review Checklist

Client BBL **Project** NMPC-School **SDG** L49971

		Yes	No	NA
DEC Forms:	Present and complete	✓		
	Holding times met	✓		

Comments: _____

Internal Chain of Custody: Present ✓

Form 1D:	Present and complete	✓		
	Raw Data present for all samples	✓		
	Non-detects lined-out and initialed	✓		

Comments: _____

Form 2E:	Present and complete	✓		
	Surrogate Recoveries within limits	✓		

Comments: _____

Form 3E:	Present and complete	✓		
	Spike Recoveries within limits		✓	

Comments: MS/MSD RECOVERIES WERE OUTSIDE IN HOUSE CONTROL LIMITS DUE TO DILUTION OF HIGH CONCENTRATION OF AR1260 IN SAMPLE. ASSOCIATED BS MET RECOVERY CRITERIA.

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Method 8082 PCB Package Review Checklist

Client BBL **Project** NMPC-School **SDG** L49771

		Yes	No	NA
Form 4C:	Present and complete	✓		
IDLs:	Present and complete	✓		
GC Parameters:	Present and complete	✓		
Form 6E:	Present and complete	✓		
	% RSD within limits (≤ 20 %)	✓		

Comments: _____

_____

Form 7:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Form 8:	Present and complete	✓		
	% D within limits	✓		
Form 9:	Present and complete	✓		
	% D within limits (± 15%)	✓		

Comments: _____

_____

Calibration Data:	Present and complete	✓		

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Method 8082 PCB Package Review Checklist

Client BBL Project NMPC - SCHOOL SDG L49971

	Yes	No	NA
Form 1D, Method Blanks, MS/MSD, MSB:			
Present and complete	✓		
Raw Data present	✓		
Non-detects lined-out and initialed	✓		
Method Blank(s) results < MDL	✓		
If no, associated results flagged "B"			✓

Comment: _____

_____

Calculation Formula:	Present	✓		
Extraction Logs:	Present	✓		
GPC/Calibration Logs:	Present			✓
% Moisture Calculation:	Present	✓		
Calibration and Spike Standards Log:	Present	✓		

Section Supervisor: Carmen V. Kappil Date: 4/13/99

QC Reviewer: [signature] Date: 4/13/99

INORGANIC PACKAGE REVIEW CHECKLIST

CLIENT BBL PROJECT Nino School St. SDG L49971

	YES	NO	NA
DEC FORMS: PRESENT AND COMPLETE	X		
HOLD TIMES MET	X		
COMMENTS:			
COVER PAGE: PRESENT AND COMPLETE	X		
METALS CHAIN OF CUSTODY PRESENT	X		
FORM 1: PRESENT AND COMPLETE	X		
COMMENTS:			
FORM 2: PRESENT AND COMPLETE	X		
ICV/CCV RECOVERIES WITHIN LIMITS	X		
COMMENTS:			
FORM 2B: PRESENT AND COMPLETE	X		
RECOVERIES WITHIN 80-120%	X		
Not required for Al, Ba, Ca, Fe, Mg, Na, K			
COMMENTS:			
FORM 3: PRESENT AND COMPLETE	X		
ICB/CCBs LESS THAN CRDL	X		
ALL PBs PRESENT AND <CRDL	X		
COMMENTS:			
FORM 4: PRESENT AND COMPLETE	X		
RECOVERIES WITHIN 80-120%	X		
Not required for Ca, Mg, K and Na			
COMMENTS:			
FORM 5: PRESENT AND COMPLETE	X		
IF SR<4XSA, RECOVERIES WITHIN 75-125%		X	
Not required for Ca, Mg, K and Na for all matrices, and Al, Fe for soils.			
IF NO, POST SPIKES PERFORMED	X		
ASSOCIATED RESULTS FLAGGED "N"	X		

COMMENTS: The matrix spike was out of control for Sb (46.4%) and Ba (229.2%). Post spikes yielded recoveries of 105.2% and 94.5% respectively.

INORGANIC PACKAGE REVIEW CHECKLIST

CLIENT BBL PROJECT Nimo School St. SDG L49971

	YES	NO	NA
FORM 6: PRESENT AND COMPLETE	X		
IF CRDL < SR < 5XCRDL, |SR-DR| < CRDL		X	
IF SR > 5XCRDL, RPD <20% SD 4.6.99	X	X	
IF NO, ASSOCIATED RESULTS FLAGGED "*"	X		

COMMENTS: The matrix duplicate was out of control for Pb (50.5%) and Mg (34.9%). Associated results are flagged with "*".

FORM 7: PRESENT AND COMPLETE	X		
RECOVERIES WITHIN 80-120% FOR WATER	X		
RECOVERIES WITHIN LIMITS FOR SOILS	X		

COMMENTS:

FORM 9: PRESENT AND COMPLETE	X		
IF SR > 50X IDL; %D < 10%		X	
IF NO, ASSOCIATED RESULTS FLAGGED "E"	X		

COMMENTS: The reported results for Pb, K, and Zn may be considered estimated due to sample matrix interferences

FORM 10: PRESENT AND COMPLETE	X		
FORM 11: PRESENT AND COMPLETE	X		
FORM 12: PRESENT AND COMPLETE	X		
FORM 13: PRESENT AND COMPLETE	X		

COMMENTS:

FORM 14: PRESENT AND COMPLETE	X		

COMMENTS:

RAW DATA: PRESENT FOR ALL SAMPLES	X		
CALIBRATION STANDARDS LOG: PRESENT	X		
PERCENT MOISTURE CALCULATION: PRESENT	X		

SECTION SUPERVISOR: Karen S Becker DATE: 4.7.99

QC REVIEWER: Lynda M. Muller DATE: 4/8/99

/u/pkgrw/inorgrvw

NYSDEC Sample Preparation and Analysis Summary Sheets

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L49971 SDG : L49971 MATRIX : Water

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1991														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbametes Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
RINSE BLANK	L49971-13	X	X	X										1		

METALS LIST 1 : HG,AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L49971 SDG : L49971 MATRIX : Soil

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1991														
		VOA	MS BNA	Pest/ PCB'S	Organophos Pesticides	Chlor. Herb.	T. Dithio-Carbametes Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
S-6(0-6")	L49971-1		X	X								X		1		
S-6(0-6")D	L49971-2		X	X								X		1		
S-6(0-6")MS	L49971-3		X	X								X		1		
S-6(0-6")MSD	L49971-4		X	X								X		1		
S-6(6-18")	L49971-5	X	X	X								X		1		
S-3(0-6")	L49971-6		X	X								X		1		
S-3(2-3')	L49971-7	X	X	X								X		1		
S-3(2-3')D	L49971-8	X														
S-3(2-3')MS	L49971-9	X														
S-3(2-3')MSD	L49971-10	X														
S-5(0-6")	L49971-11			X												
S-5(6-18")	L49971-12			X												
MSB/LCS	L49971-14	X	X									X		1		

METALS LIST 1 : HG,AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

LOGIN : L50026 SDG : L4997 MATRIX : Soil

Client Sample Code	Laboratory Sample Code	If CLP, Indicate year of protocol 1991														
		VOA	MS BNA	Pest/ PCB'S	Organophos. Pesticides	Chlor. Herb.	T. Dithio-Carbametes Pest.	Methyl-Carbamates	Organics List #	ETU	Karb.	CN-Total	CN-Amen.	Metals List #	Diss. Metals List #	Wet Chem. List #
S-1(0-6")	L50026-1		X	X								X		1		
S-1(1-2')	L50026-2	X	X	X								X		1		
S-4(0-6")	L50026-3			X												
S-4(6-18")	L50026-4			X												
S-8(0-6")	L50026-5			X												
S-8(6-18")	L50026-6			X												
S-2(0-6")	L50026-7		X	X								X		1		
S-2(6-18")	L50026-8	X	X	X								X		1		
S-9(0-6")	L50026-9			X												
S-9(6-18")	L50026-10			X												
S-7(0-6")	L50026-11		X	X								X		1		
S-7(6-18")	L50026-12	X	X	X								X		1		
S-11(6-12")	L50026-13			X												

METALS LIST 1 : HG,AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
RINSE BLANK L49971-13	Water	29-MAR-99	30-MAR-99	NA	30-MAR-99
S-1(1-2') L50026-2	Soil	30-MAR-99	31-MAR-99	NA	06-APR-99
S-1(1-2') RE L50026-2 RE	Soil	30-MAR-99	31-MAR-99	NA	06-APR-99
S-2(6-18") L50026-8	Soil	30-MAR-99	31-MAR-99	NA	06-APR-99
S-3(2-3') L49971-7	Soil	29-MAR-99	30-MAR-99	NA	30-MAR-99
S-3(2-3')D L49971-8	Soil	29-MAR-99	30-MAR-99	NA	30-MAR-99
S-3(2-3')MS L49971-9	Soil	29-MAR-99	30-MAR-99	NA	31-MAR-99
S-3(2-3')MSD L49971-10	Soil	29-MAR-99	30-MAR-99	NA	31-MAR-99
S-6(6-18") L49971-5	Soil	29-MAR-99	30-MAR-99	NA	30-MAR-99
S-6(6-18") RE L49971-5 RE	Soil	29-MAR-99	30-MAR-99	NA	31-MAR-99
S-7(6-18") L50026-12	Soil	30-MAR-99	31-MAR-99	NA	06-APR-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - VOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
RINSE BLANK L49971-13	WATER	SW846 8260	NA		1
S-1(1-2') L50026-2	SOIL	SW846 8260	NA		1
S-2(6-18") L50026-8	SOIL	SW846 8260	NA		1
S-3(2-3') L49971-7	SOIL	SW846 8260	NA		1
S-3(2-3')D L49971-8	SOIL	SW846 8260	NA		1
S-3(2-3')MS L49971-9	SOIL	SW846 8260	NA		1
S-3(2-3')MSD L49971-10	SOIL	SW846 8260	NA		1
S-6(6-18") L49971-5	SOIL	SW846 8260	NA		1
S-7(6-18") L50026-12	SOIL	SW846 8260	NA		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
RINSE BLANK L49971-13	Water	29-MAR-99	30-MAR-99	30-MAR-99	31-MAR-99
S-1(0-6") L50026-1	Soil	30-MAR-99	31-MAR-99	01-APR-99	01-APR-99
S-1(1-2') L50026-2	Soil	30-MAR-99	31-MAR-99	01-APR-99	01-APR-99
S-2(0-6") L50026-7	Soil	30-MAR-99	31-MAR-99	01-APR-99	01-APR-99
S-2(6-18") L50026-8	Soil	30-MAR-99	31-MAR-99	01-APR-99	01-APR-99
S-3(0-6") L49971-6	Soil	29-MAR-99	30-MAR-99	30-MAR-99	31-MAR-99
S-3(2-3') L49971-7	Soil	29-MAR-99	30-MAR-99	30-MAR-99	31-MAR-99
S-6(0-6") DL L49971-1 DL	Soil	29-MAR-99	30-MAR-99	30-MAR-99	01-APR-99
S-6(0-6") L49971-1	Soil	29-MAR-99	30-MAR-99	30-MAR-99	01-APR-99
S-6(0-6")D L49971-2	Soil	29-MAR-99	30-MAR-99	30-MAR-99	01-APR-99
S-6(0-6")MS L49971-3	Soil	29-MAR-99	30-MAR-99	30-MAR-99	01-APR-99
S-6(0-6")MSD L49971-4	Soil	29-MAR-99	30-MAR-99	30-MAR-99	01-APR-99
S-6(6-18") L49971-5	Soil	29-MAR-99	30-MAR-99	30-MAR-99	31-MAR-99
S-6(6-18") DL L49971-5 DL	Soil	29-MAR-99	30-MAR-99	30-MAR-99	01-APR-99
S-7(0-6") L50026-11	Soil	30-MAR-99	31-MAR-99	01-APR-99	01-APR-99
S-7(6-18") L50026-12	Soil	30-MAR-99	31-MAR-99	01-APR-99	01-APR-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - SEMIVOLATILE

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
RINSE BLANK L49971-13	WATER	SW846 8270	SW846/3520 /8270	NONE	1
S-1(0-6") L50026-1	SOIL	SW846 8270	SW846/3550 /8270		1
S-1(1-2') L50026-2	SOIL	SW846 8270	SW846/3550 /8270		1
S-2(0-6") L50026-7	SOIL	SW846 8270	SW846/3550 /8270		1
S-2(6-18") L50026-8	SOIL	SW846 8270	SW846/3550 /8270		1
S-3(0-6") L49971-6	SOIL	SW846 8270	SW846/3540 /8270		1
S-3(2-3') L49971-7	SOIL	SW846 8270	SW846/3540 /8270		1
S-6(0-6") L49971-1	SOIL	SW846 8270	SW846/3540 /8270		10
S-6(0-6") L49971-1	SOIL	SW846 8270	SW846/3540 /8270		2
S-6(0-6")D L49971-2	SOIL	SW846 8270	SW846/3540 /8270		10
S-6(0-6")MS L49971-3	SOIL	SW846 8270	SW846/3540 /8270		10
S-6(0-6")MSD L49971-4	SOIL	SW846 8270	SW846/3540 /8270		10
S-6(6-18") L49971-5	SOIL	SW846 8270	SW846/3540 /8270		1
S-6(6-18") L49971-5	SOIL	SW846 8270	SW846/3540 /8270		10
S-7(0-6") L50026-11	SOIL	SW846 8270	SW846/3550 /8270		1
S-7(6-18") L50026-12	SOIL	SW846 8270	SW846/3550 /8270		1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
RINSE BLANK L49971-13	WATER	29-MAR-99	30-MAR-99	31-MAR-99	31-MAR-99
S-3(0-6") L49971-6	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	01-APR-99
S-3(2-3') L49971-7	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	01-APR-99
S-5(0-6") L49971-11	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	31-MAR-99
S-5(6-18") L49971-12	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	31-MAR-99
S-6(0-6") L49971-1	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	01-APR-99
S-6(0-6")D L49971-2	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	01-APR-99
S-6(0-6")MS L49971-3	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	01-APR-99
S-6(0-6")MSD L49971-4	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	01-APR-99
S-6(6-18") L49971-5	SOIL	29-MAR-99	30-MAR-99	31-MAR-99	01-APR-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
RINSE BLANK L49971-13	Water	8081 NYSDEC ASP CAT B	SW846/3510	ALUMINA	1
S-3(0-6") L49971-6	Soil		SW846/3540	ACID WASH ALUMINA	10
S-3(2-3') L49971-7	Soil		SW846/3540		100
S-5(0-6") L49971-11	Soil		SW846/3540		1
S-5(6-18") L49971-12	Soil		SW846/3540		1
S-6(0-6") L49971-1	Soil		SW846/3540		400
S-6(0-6")D L49971-2	Soil		SW846/3540		400
S-6(0-6")MS L49971-3	Soil		SW846/3540		400
S-6(0-6")MSD L49971-4	Soil		SW846/3540		400
S-6(6-18") L49971-5	Soil		SW846/3540		100

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Date Collected	Date Rec at Lab	Date Extracted	Date Analyzed
S-1(0-6") L50026-1	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-1(1-2') L50026-2	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-11(6-12") L50026-13	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-2(0-6") L50026-7	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-2(6-18") L50026-8	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-4(0-6") L50026-3	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-4(6-18") L50026-4	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-7(0-6") L50026-11	SOIL	30-MAR-99	31-MAR-99	02-APR-99	06-APR-99
S-7(6-18") L50026-12	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-8(0-6") L50026-5	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-8(6-18") L50026-6	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-9(0-6") L50026-9	SOIL	30-MAR-99	31-MAR-99	02-APR-99	05-APR-99
S-9(6-18") L50026-10	SOIL	30-MAR-99	31-MAR-99	02-APR-99	06-APR-99

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY - Pesticide

Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxilary Clean up	Dil/Conc Factor
S-1(0-6") L50026-1	Soil	8080 NYSDEC ASP CAT B	SW846/3550	ACID WASH ALUMINA	10
S-1(1-2') L50026-2	Soil		SW846/3550		20
S-11(6-12") L50026-13	Soil		SW846/3550		5
S-2(0-6") L50026-7	Soil		SW846/3550		20
S-2(6-18") L50026-8	Soil		SW846/3550		20
S-4(0-6") L50026-3	Soil		SW846/3550		10
S-4(6-18") L50026-4	Soil		SW846/3550		1
S-7(0-6") L50026-11	Soil		SW846/3550		40
S-7(6-18") L50026-12	Soil		SW846/3550		10
S-8(0-6") L50026-5	Soil		SW846/3550		40
S-8(6-18") L50026-6	Soil		SW846/3550		40
S-9(0-6") L50026-9	Soil		SW846/3550		40
S-9(6-18") L50026-10	Soil		SW846/3550		80

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

SAMPLE ID	MATRIX	INORGANICS REQUESTED	DATE REC'D AT LAB	DATE ANALYZED
RINSE BLANK L49971-13	WATER	TAL METALS ~~CN~~ Sn	03/30/99	ICP : 04/02/99 Hg : 04/05/99
RINSE BLANKMS L49971-13S	WATER	TAL METALS ~~CN~~ Sn	03/30/99	ICP : 04/02/99 Hg : 04/05/99
RINSE BLANKMSD L49971-13D	WATER	TAL METALS ~~CN~~ Sn	03/30/99	ICP : 04/02/99 Hg : 04/05/99
S-1(0-6) L50026-1	SOIL	TAL METALS CN	03/31/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-1(1-2) L50026-2	SOIL	TAL METALS CN	03/31/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-2(0-6) L50026-7	SOIL	TAL METALS CN	03/31/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-2(6-18) L50026-8	SOIL	TAL METALS CN	03/31/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-3(0-6) L49971-6	SOIL	TAL METALS CN	03/30/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-3(2-3) L49971-7	SOIL	TAL METALS CN	03/30/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-6(0-6) L49971-1	SOIL	TAL METALS CN	03/31/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-6(0-6)D L49971-2	SOIL	TAL METALS CN	03/30/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-6(0-6)MS L49971-3S	SOIL	TAL METALS CN	03/30/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-6(0-6)MSD L49971-4D	SOIL	TAL METALS CN	03/30/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-6(6-18) L49971-5	SOIL	TAL METALS CN	03/30/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-7(0-6) L50026-11	SOIL	TAL METALS CN	03/31/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99
S-7(6-18) L50026-12	SOIL	TAL METALS CN	03/31/99	ICP : 04/02/99 Hg : 04/02/99 CN : 04/02/99

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L49971	3/29/99	1995	S-6(0-6)	soil	--	no	yes	no	BNA - cal[3], is TAL - ms, dup[2], ser.d
L49971	3/29/99	1995	S-6(0-6)D	soil	--	yes	yes	no	TAL - ms, dup[2], ser.d
L49971	3/29/99	1995	S-6(6-18)	soil	no	no	no	no	VOA - cal[3], is BNA - cal[3], surr[2], is PCB - f.dup TAL - ms, dup[2], ser.d
L49971	3/29/99	1995	S-3(0-6)	soil	--	no	yes	no	BNA - cal[3] TAL - ms, dup[2], ser.d
L49971	3/29/99	1995	S-3(2-3)	soil	no	no	no	no	VOA - cal[3] BNA - cal[3] PCB - f.dup TAL - ms, dup[2], ser.d
L49971	3/29/99	1995	S-3(2-3)D	soil	no	--	--	--	VOA - cal[3]
L49971	3/29/99	1995	S-5(0-6)	soil	--	--	yes	--	
L49971	3/29/99	1995	S-5(6-18)	soil	--	--	no	--	PCB - f.dup
L49971	3/29/99	1995	RINSE BLANK	water	no		no	yes	VOA - cal[3] PCB - msb[2]
L49971	3/30/99	1995	S-1(0-6)	soil	--	no	yes	no	BNA - cal[3] TAL - ms, dup[2], ser.d
L49971	3/30/99	1995	S-1(1-2)	soil	no	no	no	no	VOA - cal[3], surr, is BNA - cal[3] PCB - f.dup TAL - ms, dup[2], ser.d
L49971	3/30/99	1995	S-4(0-6)	soil	--	--	yes	--	
L49971	3/30/99	1995	S-4(6-8)	soil	--	--	no	--	PCB - f.dup
L49971	3/30/99	1995	S-8(0-6)	soil	--	--	yes	--	
L49971	3/30/99	1995	S-8(6-18)	soil	--	--	no	--	PCB - f.dup
L49971	3/30/99	1995	S-2(0-6)	soil	--	no	yes	no	BNA - cal[3] TAL - ms, dup[2], ser.d

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Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOA	BNA	PCB	TAL	
L49971	3/30/99	1995	S-2(6-18)	soil	no	no	no	no	VOA - cal[3] BNA - cal[3] PCB - f.dup TAL - ms, dup[2], ser.d
L49971	3/30/99	1995	S-9(0-6)	soil	--	--	yes	--	
L49971	3/30/99	1995	S-9(6-18)	soil	--	--	no	--	PCB - f.dup
L49971	3/30/99	1995	S-7(0-6)	soil	--	no	yes	no	BNA - cal[3] TAL - ms, dup[2], ser.d
L49971	3/30/99	1995	S-7(6-18)	soil	no	no	no	no	VOA - cal[3] BNA - cal[3] PCB - f.dup TAL - ms, dup[2], ser.d
L49971	3/30/99	1995	S-11(6-12)	soil	--	--	no	--	PCB - f.dup

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.
2 The non-compliance resulted in no qualification of data.
3 Although the deviation resulted in the qualification of data, the laboratory was method compliant.