



January 10, 2006

Mr. Terrence Connelly
USEPA – New England Division
1 Congress Street, Suite 1100 (HBT)
Boston, MA 02114-2023

RE: Residential Tap Water Monitoring Program
Hows Corner Superfund Site, Plymouth, Maine
December 2005 Water Sampling Results

Dear Mr. Connelly:

Enclosed please find the laboratory results for the tap water sampling event conducted for the subject project in December 2005, a summary table providing the data for each residence sampled, and the data validation report. The December 2005 sampling event was completed on December 10, 2005 and included the residences scheduled for quarterly sampling, as follows:

Quarterly Lots

2 (Skidgel)	21-16 (Levesque)
7 (Melanson)	31 (G. Hopkins)
8-1 (Foss)	31 (Knight)
11-1 (Godsoe)	32-2 (Curtis)
11-2 (Ward)	36 (Norris)
11-3 (Deraps)	83-1 (Gray)
11-4 (Leathers)	

No sample was collected at Lot 11-4 (Leathers) during the December 2005 sampling event because the homeowner could not be contacted by telephone to arrange a sampling appointment or in person to collect a sample. Several unsuccessful attempts were made during the December sampling event to collect a sample at this residence. In addition, Lot 83-1 (Gray) was not sampled during the December 2005 sampling event because the residence is now unoccupied.

Quarterly Residential Sampling Results

Thirteen residences were scheduled for quarterly sampling and 11 samples were successfully collected. As indicated above, no samples were collected at Lot 11-4 (Leathers) and Lot 83-1 (Gray) during this sampling event. As outlined in Table 1, chloroform, tetrachloroethylene (PCE), and trichloroethylene (TCE) were detected in the samples collected from the quarterly residential sampling locations. Chloroform was detected in the water samples collected at Lot 7 (Melanson) and Lot 8-1 (Foss) at 0.57 µg/L and 0.58 µg/L, respectively, which are both below the chloroform Maximum Contaminant Level (MCL) of 100 µg/L. At Lot 32-2 (Curtis), PCE was detected in the water sample at a concentration of 0.40 µg/L; however, this detection is below the PCE MCL of 5.0 µg/L. At Lot 11-3 (Deraps), TCE was detected in the water sample at a concentration of 0.16 µg/L; however, this detection is below the TCE MCL of 5.0 µg/L. No other project-related compounds were detected in water samples collected from the quarterly residential sampling locations. Therefore, there were no exceedences of the MCLs observed.



On December 23, 2005, Woodard & Curran, Inc. notified the property owners at Lot 11-2 (Ward) that the laboratory detected methyl *tert*-butyl ether (MTBE), an additive in gasoline, during the analysis of the water sample collected from this residence in December 2005. MTBE was detected in the water sample at a concentration of 140 E $\mu\text{g/L}$ (E = estimated), in exceedence of the Maine Maximum Exposure Guideline of 35 $\mu\text{g/L}$. MTBE is not considered to be one of the target volatile organic compounds associated with the Hows Corner/West Site and is likely related a recent gasoline spill in the vicinity of the property. However, due to the magnitude of this detection, Woodard & Curran Inc. notified the property residents of this detection and has provided them with the MTBE results in a separate letter.

Data Validation

The validation report indicates that none of the December 2005 residential samples were qualified due to non-compliant quality control samples. Methylene chloride was detected in three of the method blanks associated with the December 2005 samples, indicating potential low level, false positive concentrations of this compound in the samples. However, since methylene chloride was not detected in any of the samples, there was no impact to the sample results from this finding. The initial and continuing calibration results, the laboratory control sample results, and the field duplicate sample results were all compliant for all target compounds. Overall, the results of the validation concluded that the data are of good quality and are suitable for their intended use.

Summary

The December 2005 sampling event was completed on December 10, 2005 and consisted of sampling the residences designated for quarterly sampling. Woodard & Curran, Inc. completed the sampling. The next monitoring event is scheduled to take place in March 2006 and will consist of monitoring locations designated for quarterly sampling.

If you have any questions regarding the enclosed materials or sampling program, please contact me at (207) 685-7333.

Sincerely,

WOODARD & CURRAN INC.

Florence L. Clauson
Project Chemist

205297.06
Enclosures

cc: Rebecca Hewett, MEDEP
Mark Beliveau, Pierce Atwood

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 15:53
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-1
 Client ID: WS/HC(36)NORRIS
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		*114%				
2199-69-1	1,2-Dichlorobenzene-D4		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 16:35
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-2
 Client ID: WS/HC(31)KNIGHT
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		84%				
2199-69-1	1,2-Dichlorobenzene-D4		111%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 19:21
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-7
 Client ID: WS/HC(31)KNIGHT DUP
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		*112*				
2199-69-1	1,2-Dichlorobenzene-D4		98*				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 17:17
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-3
 Client ID: WS/HC(7)MELANSON
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform		0.57	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		94%				
2199-69-1	1,2-Dichlorobenzene-D4		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 17:58
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-4
 Client ID: WS/HC(11-3)DERAPS
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SXT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	J	0.16	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		*128%				
2199-69-1	1,2-Dichlorobenzene-D4		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 18:40
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-6
 Client ID: S/HC(21-16)LEVESQUE
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		98%				
2199-69-1	1,2-Dichlorobenzene-D4		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 20:03
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-8
 Client ID: WS/HC(31)G.HOPKINS
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		106%				
2199-69-1	1,2-Dichlorobenzene-D4		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 19-DEC-2005 15:21
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-9
 Client ID: WS/HC(2)SKIDGEL
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG24021
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		106%				
2199-69-1	1,2-Dichlorobenzene-D4		105%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 21-DEC-2005 22:32
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-11RA
 Client ID: WS/HC(8-1)FOSS
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG24099
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform		0.58	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		104%				
2199-69-1	1,2-Dichlorobenzene-D4		110%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Hows Corner
PO No:
Sample Date: 12/10/05
Received Date: 12/13/05
Extraction Date:
Analysis Date: 19-DEC-2005 16:45
Report Date: 12/22/2005
Matrix: WATER
% Solids: NA

Lab ID: WV6629-12
Client ID: WS/HC(11-1)GODSOE
SDG: WV6629
Extracted by:
Extraction Method: SW846 5030
Analyst: SKT
Analysis Method: EPA 524.2
Lab Prep Batch: WG24021
Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	xylene (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-65-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		108%				
2199-69-1	1,2-Dichlorobenzene-D4		109%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 19-DEC-2005 17:27
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-13
 Client ID: WS/HC(32-2)CURTIS
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG24021
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.40	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		106%				
2199-69-1	1,2-Dichlorobenzene-D4		107%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 19-DEC-2005 18:08
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-14
 Client ID: WS/HC(11-2)WARD
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG24021
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		99%				
2199-69-1	1,2-Dichlorobenzene-D4		103%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 14:30
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-10
 Client ID: TRIP BLANK
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		96%				
2199-69-1	1,2-Dichlorobenzene-D4		*120%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
 Project: Hows Corner
 PO No:
 Sample Date: 12/10/05
 Received Date: 12/13/05
 Extraction Date:
 Analysis Date: 16-DEC-2005 15:12
 Report Date: 12/22/2005
 Matrix: WATER
 % Solids: NA

Lab ID: WV6629-5
 Client ID: FIELD BLANK
 SDG: WV6629
 Extracted by:
 Extraction Method: SW846 5030
 Analyst: SKT
 Analysis Method: EPA 524.2
 Lab Prep Batch: WG23969
 Units: ug/l

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
75-01-4	Vinyl chloride	U	0.50	1.0	0.50	0.50	0.20
75-35-4	1,1-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
71-55-6	1,1,1-Trichloroethane	U	0.50	1.0	0.50	0.50	0.13
79-01-6	Trichloroethene	U	0.50	1.0	0.50	0.50	0.11
75-09-2	Methylene Chloride	U	0.50	1.0	0.50	0.50	0.22
156-59-2	cis-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
156-60-5	trans-1,2-Dichloroethene	U	0.50	1.0	0.50	0.50	0.13
78-87-5	1,2-Dichloropropane	U	0.50	1.0	0.50	0.50	0.13
127-18-4	Tetrachloroethene	U	0.50	1.0	0.50	0.50	0.14
	m+p-Xylenes	U	1.0	1.0	1.0	1.0	0.24
95-47-6	o-Xylene	U	0.50	1.0	0.50	0.50	0.10
1330-20-7	Xylenes (total)	U	1.5	1.0	1.5	1.5	0.34
120-82-1	1,2,4-Trichlorobenzene	U	0.50	1.0	0.50	0.50	0.26
67-66-3	Chloroform	U	0.50	1.0	0.50	0.50	0.12
460-00-4	P-Bromofluorobenzene		96%				
2199-69-1	1,2-Dichlorobenzene-D4		112%				

**DATA VALIDATION REPORT
RESIDENTIAL TAP WATER MONITORING**

DECEMBER 2005



December 29, 2005

Mr. Terrence Connelly, Remedial Project Manager
Office of Site Remediation and Restoration
U.S. Environmental Protection Agency- New England Region
1 Congress Street
Boston, MA 02114-2023

Subject: Data Validation of Quarterly Residential Water Sample Results; December 2005
Hows Corner Superfund Site, Plymouth, Maine

Dear Mr. Connelly:

Attached please find the data validation report for the quarterly residential samples collected in the vicinity of the Hows Corner Superfund Site on December 10, 2005. Groundwater samples were collected in Plymouth, ME to determine if residents near the site are consuming water with concentrations of compounds that exceed state and federal drinking water standards. A Tier II validation procedure was completed to assess the quality of the data associated with these samples. Criteria from the Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, (USEPA, December, 1996), and the Quality Assurance Project Plan, West Site/Hows Corner Superfund Site, Plymouth, Maine, (Acheron, 1998) were used as references in the validation process. All residential water samples were submitted to Katahdin Analytical Services of Westbrook, ME for analysis of a select group of volatile organic compounds (VOCs) using USEPA Method 524.2. The target compounds which were reported from this analysis are included in Table 2. Samples were organized by the laboratory into the sample delivery group (SDG) WV6629. The samples associated with this SDG are summarized in Table 1 of the attached data validation report.

Data validation included an evaluation of data quality with respect to usability based on the following quality control parameters:

- Data completeness
- Preservation and Technical Holding Times
- GC/MS Instrument Performance Check (Tuning)
- Initial and Continuing Calibration Results
- Blanks
- Surrogate Recoveries
- Internal Standard and Retention Time Results
- Field Duplicates
- Laboratory Control Samples
- Target Compound Identification

The results from analysis of the above quality control samples do not indicate any data usability issues. Methylene chloride was detected in all three of the method blanks at concentrations ranging from 0.23 to 2.0 µg/L, indicating potential low level, false positive concentrations of this



compound introduced into samples from laboratory activities. However, since methylene chloride was not detected in any of the samples, there was no impact from this finding.

Initial calibration results were compliant for all target VOCs indicating that sample concentrations were accurately quantified. Continuing calibration results associated with analysis of the Hows Corner residential samples were also compliant for all target compounds.

Laboratory control sample recoveries were compliant for all target compounds. A field duplicate sample was collected at the Knight residence to determine analytical precision. The relative percent differences (RPD) between sample and duplicate concentrations were below the EPA limit of 30% for all target VOCs indicating favorable analytical precision.

The following data validation report provides a detailed summary of quality control results, a data summary report, and an assessment of the usability of the results based on data quality. Please do not hesitate to call me at 1-800-426-4262 if you have questions regarding this report.

Sincerely,
Woodard & Curran Inc.

David Dinsmore
Data Validator
Attachment

**HOWS CORNER SUPERFUND SITE
QUARTERLY RESIDENTIAL TAP WATER MONITORING PROGRAM -
12/2005
DATA VALIDATION REPORT**

DECEMBER 2005

A summary of the quality control results is included in the following subsections.

I. Data Completeness

The data package was reviewed for completeness to determine if all of the supporting documentation was submitted by the analytical laboratory. The data package submitted by the laboratory in conjunction with the December 2005 quarterly residential water testing for the Hows Corner Superfund Site were one hundred percent complete.

II. Sample Preservation and Technical Holding Times

All residential water samples were analyzed for the compound list presented in Table 2 using USEPA 524.2. Samples were collected in 40 ml vials which were pre-preserved with hydrochloric acid. Samples were then placed in coolers packed with ice to maintain a temperature of roughly 4°C. The technical holding time for preserved water samples analyzed by USEPA 524.2 is fourteen days. All samples were analyzed within the fourteen day holding time. No sample qualification was needed due to holding time exceedances.

III. GC/MS Instrument Performance Check

The ion abundance criterion for bromofluorobenzene was used to ensure proper mass calibration and resolution, identification and sensitivity. The results from these analyses indicate that the criteria were met and that the GC/MS performance during sample analysis was satisfactory.

IV. Initial and Continuing Calibration Results

Initial and continuing calibration results were reviewed to ensure that sample concentrations were accurately quantified. The criteria for initial calibration results was for the percent relative standard deviation (%RSD) to be 30% or less and for the relative response factor to be at least 0.05. Initial calibrations completed on the M instrument on December 16 and 21, 2005 were used for quantification of sample results. The relative response factors for the initial calibration used to quantitate sample concentrations were greater than 0.05 for all target compounds. The initial calibration also had compliant %RSDs of all target VOAs indicating that an acceptable calibration curve was established for sample quantification.

Continuing calibration standards were analyzed as a check on analytical accuracy established in the initial calibration. A percent difference of 25% between the true and the observed concentrations was used as a criterion to assess the results. A continuing calibration check was completed on December 19, 2005. The continuing calibration results had compliant percent differences for all target VOCs, verifying that the established initial calibration was acceptable in the determination of sample concentrations.

V. Blanks

Method blanks were analyzed to determine if concentrations of target compounds were introduced during the preparation and analysis of samples at the laboratory. Methylene chloride was detected from 0.23 to 2.0 µg/L in three method blanks analyzed on December 16, 19 and 21 2005, indicating potential laboratory contamination.

A trip blank was used to evaluate potential cross contamination of VOAs between samples during shipment and handling. There were no target VOCs detected in the trip blank, indicating that cross contamination between samples during the shipping process was not likely.

A field blank was collected to determine if concentrations of target compounds were present in the 40 ml vials used to contain the samples. There were no target VOCs detected in the field blanks indicating that the vials did not contain concentrations of these compounds.

The method blank detection of methylene chloride was used to establish the action level. However, since methylene chloride was not detected in any of the samples, there was no impact from this finding.

VI. Surrogate Recoveries

Surrogates were added to each sample to ensure instrument performance during sample analysis. The surrogates which were added to samples include 4-bromofluorobenzene (BFB), and 1,2-dichlorobenzene. Surrogate recoveries were in compliance for most of the samples indicating that instrument performance during sample analyses was satisfactory. However, high surrogate recoveries were reported for samples collected at the Norris, and DeRaps residences and for the duplicate sample collected at the Knight residence. Since none of these samples had detections of any target compounds, there was no impact from this finding.

VII. Internal Standard Areas and Retention Times

Internal standard results were reviewed to determine instrument performance and stability. The area counts and retention time results for the internal standard fluorobenzene were compared to acceptance criteria for USEPA Method 524.2. The criteria is for internal standard area counts of samples to be between -50% and +100% of those obtained from the standard during the continuing calibration analysis. Retention times were required to be within 0.5 minutes of the standard value. The area counts and retention times of the internal standards were within specifications indicating that instrument performance during sample analysis was acceptable.

VIII. Laboratory Control Samples

Laboratory control samples (also referred to as laboratory fortified blanks) consist of deionized water which is spiked with known concentrations of the target compounds. The recoveries of the compounds were used to determine the analytical accuracy of the system used to obtain sample concentrations. Recoveries of 60 to 140% were used as control limits to determine accuracy. All of the laboratory control samples had compliant recoveries indicating an acceptable level of accuracy.

IX. Field Duplicates

Field duplicate samples were analyzed to determine the precision of sample collection and analytical techniques through comparison of reported sample concentrations. Precision was determined through analysis of the relative percent difference (RPD) between reported results of the sample and the duplicate. The USEPA requirement for duplicate aqueous samples is for the RPD of detections to be 30% or less. A field duplicate sample was collected at the Knight residence. The RPDs between sample and duplicate concentrations were compliant for all target VOCs, indicating that the sampling and analytical precision were acceptable.

X. Target Compound Identification

Target compound identification was completed through a review of retention times and mass spectra data. These results were compared to those obtained through analysis of the standards of target compounds. The results indicate that target compound identification was completed successfully for all samples.

XI. Summary and Overall Assessment of Data

Quality control results for most of the target compounds were in control and indicate that sample identification and quantification were accurately obtained. Based on these results, there were no qualifiers added to any of the sample concentrations.

Overall the quality control results are acceptable and indicate that the data are of good quality suitable for their intended end use of monitoring concentrations of VOCs in the residential wells near the Hows Corner Superfund Site.

**TABLE 1
RESIDENTIAL WATER SAMPLES BY SDG
PLYMOUTH, ME
DECEMBER 2005**

SDG #	Analysis Completed	Matrix	Associated Samples
WV6629	USEPA - 524.2	Water	Foss, Norris, Ward, Godsoe, Knight, G. Hopkins, Curtis, Skidgel, Levesque, DeRaps, Melanson

TABLE 2
SITE TARGET COMPOUNDS USING USEPA 524.2
HOWS CORNER SUPERFUND SITE
PLYMOUTH, ME

Compound	Reporting Limit (µg/L)	Matrix
Vinyl chloride	0.5	Water
1,1-dichloroethene	0.5	Water
1,1,1-trichloroethane	0.5	Water
Trichloroethene	0.5	Water
Methylene chloride	0.5	Water
cis-1,2-dichloroethene	0.5	Water
trans-1,2-dichloroethene	0.5	Water
1,2-dichloropropane	0.5	Water
Tetrachlorethene	0.5	Water
m/p-Xylenes	1.0	Water
o-Xylene	0.5	Water
Total xylenes	1.5	Water
1,2,4-trichlorobenzene	0.5	Water
Chloroform	0.5	Water

**ATTACHMENT 1
DATA VALIDATION WORKSHEETS**

**HOWS CORNER SUPERFUND SITE
PLYMOUTH, ME**

DECEMBER 2005

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name Katahdin Analytical SOW/Method No. 5242
Case/Project No. _____ Sampling Date(s) 12/10/05
SDG No. WV6029 Shipping Date(s) _____
No. of Samples/Matrix 11/aqueous (residential GW) Date Rec'd by lab 12/13/05

Traffic Report Sample Nos. Norris, Knight, Melanson, DeRaps, Levesque, G. Hopkins, Skidgel, Foss, Godse, Curtis, Ward

Trip Blank No. _____
Equipment Blank No. _____
Bottle Blank No. _____
Field Duplicate Nos. Knight Dup
PES Nos. _____

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision _____ was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPJP or amendment to QAPJP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation

The data were evaluated based upon the following parameters:

- Overall Evaluation of Data
- Data Completeness (CSF Audit - Tier I)
- Preservation & Technical Holding Times
- GC/MS & GC/ECD Instrument Performance Check
- Initial & Continuing Calibrations
- Blanks
- Surrogate Compounds
- Internal Standards
- Matrix Spike/Matrix Spike Duplicate
- Field Duplicates
- Sensitivity Check
- PE Samples/Accuracy Check
- Target Compound Identification
- Compound Quantitation and Reported Quantitation Limits
- TICs
- Semivolatile and Pesticide/PCB Cleanup
- System Performance

Region I Definitions and Qualifiers:

- A - Acceptable Data
- J - Numerical value associated with compound is an estimated quantity.
- R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
- U - Compound not detected at that numerical sample quantitation limit.
- UJ - The sample quantitation limit is an estimated quantity.
- TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples.

Validator's Name Diana D. Dorman Company Name Woodward & Curran Phone Number (207) 774-2112

Date Validation Started 12/28/05

Date Validation Completed 12/28/05

The data validator generates a Data Validation Report, applicable to Data Validation Tiers II and III, that consists of the following components in the order specified below: (Refer to Section 11 for a description of each of the Data Validation Report components).

1. Organic Regional Data Assessment/Inorganic Regional Data Assessment (ORDA/IRDA) Form
2. Data Validation Memorandum
 - a. Narrative
 - b. Table I-Qualifier Recommendation Summary Table
 - c. Table II-Overall Evaluation of Data
 - d. Table III-Tentatively Identified Compounds
 - e. Data Summary Tables
3. Standard Data Validation Worksheets
 - a. Manual
 - b. Automated Data Review Reports (i.e., CADRE)
4. Support Documentation
 - a. Copy of non-CLP analytical method, e.g., DAS methods, modified EPA methods
 - b. Copies of PES Score Reports/Vendor PES QC Acceptance Limits
 - c. Copies of Telephone Logs/Communication Forms for:
 - RSCC communications
 - Requests for laboratory data resubmissions/clarifications
 - Communications with samplers resolving sampling problems
 - Communications with TPO/Lead Chemist to report contractually-deficient data for rejection/reduced payment
 - Communications with EPA Site Manager concerning possible data rejection
 - EPA Site Manager authorization for alternate DV tier
 - d. Copies of data supporting recommendations for reduced payment resulting from CS Audit and/or PE sample result evaluation
 - e. Original data to support recommendations for data rejection/non-payment identified from Tier II or Tier III data validation
 - f. Copies of field sampling notes and/or field report supplied by field sampler
 - g. Copies of EPA-approved amendments to QAPjP and/or SAP describing modified criteria to be used for validating site data
5. CSF Completeness Evidence Audit
6. DQO Summary Form

The data validator is responsible for implementing all corrective actions required by the contractor Lead Chemist in response to EPA-NE data validation oversight findings.

EPA-NI Data Validation Worksheet
 Overall Evaluation of Data - Data Validation Memorandum - Table II

VOLATILE ORGANICS					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		
To determine if groundwater from residential wells in the area of Haws Corner contains concentrations of VOCs that exceed applicable state and federal drinking water standards.					

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

Validator: _____

Date: _____

EPA-NF - Data Validation Worksheet
 Overall Evaluation of Data - Data Validation Memorandum - Table II

SEMIVOLATILE ORGANICS					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

Validator: _____

Date: _____

COMPLETE SDG FILE (CSF) AUDIT

Organic Fractions: _____

Missing Information

Date Lab Contacted

Date Received

<u>Missing Information</u>	<u>Date Lab Contacted</u>	<u>Date Received</u>

Validator: _____

Date: _____

EPA-NE - Data Validation
VOA/SV - T PCB-1

Sampler: _____

Company: _____

Contacted: Yes No Date: _____

I. PRESERVATION AND HOLDING TIMES -

Circle sample numbers with exceeded technical holding times or omitted preservation.
List all required preservation codes and circle omitted preservation codes.
Circle all exceeded technical holding times.
Identify extraction technique after "# of Days"/(*Extraction Code).

Sample No. (IR No.)	Matrix	Pres. Code	Date Sampled	VOA			DNA					RES/PCB							
				Date Analyzed	# of Days from Samp. to Anal.	Action	Date Extracted	# of Days from Samp. to Extr. (*)	Date Analyzed	# of Days from Extr. to Anal.	Action	Date Extracted	# of Days from Samp. to Extr. (*)	Date Analyzed	# of Days from Extr. to Anal.	Action			
Norris	Aqueous		12/19/05	12/16/05	6	None													
Knight				↓	↓	↓													
Melanson				↓	↓	↓													
DeRaps				↓	↓	↓													
Levesque				↓	↓	↓													
G. Hopkins				↓	↓	↓													
Skidgel				12/19/05	9														
Foss				12/21/05	11														
Godsoe				12/19/05	9														
Curtis				↓	↓	↓													
Ward				↓	↓	↓													

- Preservation Code:
- Cool @ 4°C (± 2°)
 - Preserve with HCl to at least pH 2
 - Protect from light
 - Freeze
 - Room Temperature (Avoid excessive heat)

- (*Extraction Code):
- L/L - Liquid/Liquid
 - SON - Sonication
 - SEP - Separatory Funnel
 - SOX - Soxhlet
 - SPE - Solid Phase Extraction

- Action Code:
- J - Estimate (J) Detected Values
 - UJ - Estimate (UJ) Non-Detected Values
 - R - Reject (R) Non-Detected Values

EPA-NE - Data Validation Worksheet
 VOA/S I

II. GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)

List all Instrument Performance Checks that are outside method QC tuning acceptance criteria.

Volatle Instrument Performance Check (Compound Name)	Analysis Date and Time	Instrument	Ion(s) Affected	Percent Relative Abundance	QC Limits	Samples Affected	Action
All OK	12/16, 12/19, 12/21						
Comments:							
Semivolatle Instrument Performance Check (Compound Name)	Analysis Date and Time	Instrument	Ion(s) Affected	Percent Relative Abundance	QC Limits	Samples Affected	Action
Comments:							

If tuning compounds and criteria are different from those specified in CLP SOW OLM03.1, then the validator should include a copy of the method-specific tuning criteria with this worksheet.

Validator: David D...

Date: 12/28/05

EPA-N Data Validation Worksheet
 VOA/SV-IV

IV. CONTINUING CALIBRATION - List all analytes that are outside calibration criteria.

Date of ICAL	Date of CCAL	Instrument	Parameter	Matrix	Compound	%D	RRF	Samples Affected	Action
	12/19/05	M.	VOA	Aqueous	All OK				

Comments:

Validator: David Dinsmore

Date: 12/28/05

VA-NE - Data Validation Worksheet
 VOA/SV - Pest/PCB-V-A

V. BLANK ANALYSIS

List the blank contamination below.

Concentration Level: _____

Contacted: Yes No Date: _____

Sampler: _____ Company: _____

1. Laboratory: Method, Storage and Instrument Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)
	12/16/05	VOA/Aqueous	WG 2399-2 (Method Blank)	M	MeCl ₂	2.0 µg/L
	12/19/05	↓	WG 24021-2 (Method Blank)	↓	↓	0.48 µg/L
	12/21/05	↓	WG 24099-2 (Method Blank)			0.23 µg/L

2. Field: Equipment (Rinsate), Trip and Bottle Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)
	12/16/05	VOA/Aqueous	FIELD BLANK		All ND	
	12/16/05		TRIP BLANK		All ND	

Validator: David Domanne

Date: 12/28/05

A-NE - Data Validation Worksheet
 VOA/SV - Pest/PCB-V-B

3. Blank Actions - List the maximum concentrations of blank compounds.

Compound	Type of Blank	Date Blank Sampled/Originated	Max. Conc. (units)	Action Level (units)	Sample QL	Samples Affected	Action
MeCl ₂			2.0	20 µg/L	1.0	None	No impact since all samples are ND for MeCl ₂
			0.48				
			0.23				

Comments: _____

Validator: _____

Date: _____

EPA-NE - Data Validation Worksheet
 VOA-VI

VI. VOA SURROGATE SPIKE RECOVERIES - List all surrogate compound recoveries that are outside method QC acceptance criteria.

Method	Volatile Method QC Acceptance Criteria					Action		
	Toluene-d ₈		BFB		DCE-d ₄		Other: DCB	
	Water	Soil	Water	Soil	Water		Soil	
OLM03.2	88-110	84-138	86-115	59-113	76-114	70-121	50-113	
OLC02.1	NA		55-108	80-120	NA			
Other:								
Sample Number/Matrix	% Recovery		% Recovery		% Recovery		% Recovery	
Norris			114%					Surrogate recoveries exceed criteria indicating high bias. Since all compounds are analyzed for all samples, no action is taken.
DeRaps			128%					
Knight Dwp			112%					

Validator: *Daniel D. [Signature]*

Date: 12/28/05

VI. SV SURROGATE SPIKE RECOVERIES - List all surrogate compound recoveries that are outside method QC acceptance criteria.

Base/Neutral Method QC Acceptance Criteria						
Method	NDZ-d ₄	2-FBP	TPII-d ₁₄	1,2-DCB-d ₄ *	Other:	
	Water Soil 35-114 23-120	Water Soil 43-116 30-115	Water Soil 33-141 18-137	Water Soil 16-110 20-130		
OLM03.2				NA		
OLC02.1	40-110	30-110	20-140			
Other:						
Sample Number/Matrix	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	Action

Acid Method QC Acceptance Criteria						
Method	Phenol-d ₄	2-FP	2,4,6-TBP	2-CP-d ₄ *	Other:	
	Water Soil 10-110 24-113	Water Soil 21-110 25-121	Water Soil 10-123 19-122	Water Soil 33-110 20-130		
OLM03.2				NA		
OLC02.1	15-115	15-110	15-130			
Other:						
Sample Number/Matrix	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	Action

* Advisory Surrogates - OLM03.2

Validator: _____

Date: _____

EPA-NE - Data Validation Worksheet
VOA/SV-VII

VII. INTERNAL STANDARD PERFORMANCE

List the internal standards that are outside the area count and retention time method QC acceptance criteria.
IS Area Count method QC acceptance criteria: -50 to +100%
IS Retention Time method QC acceptance criteria: ± 0.5 minutes

Sample Number (TR#)	Date and Time Analyzed	Instrument	Parameter	IS Outside Area Count and/or RT Criteria	IS Area	RT Shift	Acceptable Range (IS area or RT shift)	Action
				ALL OK				

Validator: David Dunsore

Date: 12/28/05

EPA-NE - Data Validation Worksheet
 VOA/SV - Pest/PCB-VIII

VIII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE - List all MS/MSD analytes that are outside method QC acceptance criteria.

Use a separate worksheet for each MS/MSD pair.

Sample # _____ Matrix _____ Concentration Level _____

Parameter	Compound	MS %Rec	MSD %Rec	RPD	Method QC Limits		Concentration			% RSD	Action
					% Rec	RPD	Unspiked Sample	MS	MSD		

Validator: _____

Date: _____

EPA-N Data Validation Worksheet
 VOA/Sv - Pest/PCB-IX

IX. FIELD DUPLICATE PRECISION - List all field duplicate analytes that are outside criteria.

Use a separate worksheet for each field duplicate pair.

Sample Number Knight Duplicate Sample Number Knight Dup Matrix Aqueous

Parameter	Compound	Sample Conc.	Sample QL		Duplicate Conc.	Duplicate QL		RPD	QC Acceptance Criteria RPD or NA*	Action
			SQL	2xSQL		SQL	2xSQL			

* For instances where one duplicate result is ND (or reported less than the sample QL).

Does the MS/MSD data indicate acceptable laboratory precision? Y N

Comments: _____

Sampler Name: _____ Contractor Name: _____ Date Contacted: _____

Reason for Contact and resolution obtained: _____

Validator: _____

Date: _____

'A-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-X

X. SENSITIVITY CHECK (Method Detection Limit Study)

List all compounds, surrogates, and internal standards that are outside the MDL criteria.

- Has an appropriate MDL study been submitted with seven replicates for each compound and matrix of interest? Y N
- Date of Preparation/Analysis: _____ Within 1 year? Y N
- Instrument I.D.: _____ Same as samples? Y N
- Column I.D.: _____ Same as samples? Y N

Matrix	Compound	MDL > QL	Method QC Limits < 80% or > 120%	IS Outside Area Count and/or RT Criteria	RSD > 20%	Samples Affected	Action

If an MDL study has not been submitted, use only the LFB results to evaluate data.

(Laboratory Fortified Blank) - List all LFB compounds, surrogates and internal standards that are outside criteria.

- Has an appropriate and complete LFB been submitted at the proper frequency? Y N
- Does it contain all target compounds at the method-required QLs? Y N
- Was the LFB spiked with a standard from a source (vendor) independent of the calibration standard? Y N

Matrix	Compound	Method QC Limits < 60% or > 140% Other:	IS Outside Area Count and/or RT Criteria	Samples Affected	Action
12/16/05 Aqueous	AI OK	70 to 130%			
12/19/05 ↓	AI OK ↓	↓			
12/21/05					

Validator: David Dismore

Date: 12/28/05

EPA-1 - Data Validation Worksheet
 VOA/SV - Pest/PCB-XI

XI. ACCURACY CHECK (Performance Evaluation Results) - List all analytes that are outside criteria.

SDG No: _____ CASE: _____

Y N

Are more than one-half of the PES analytes within criteria for each parameter.

PE Sample Number	Ampule Number	Parameter	Type of PES	Matrix	Analyte	Conc.	Region I EPA PES Scores*	Non-EPA PES Scores**	Samples Affected	Action

* For Region I PESs indicate the Region I PES Score Report Result: Action High; Action Low; TCL MISS; TCL CONTAMINANT; TIC HIT; TIC MISS; TIC CONTAMINANT

** For Non-EPA PESs indicate the Non-EPA PES Score: PES COMPOUND MISS; PES COMPOUND CONTAMINANT; PES COMPOUND HIT (% Recovery Limits)

Validator: _____

Date: _____

PA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-XII

XII. TARGET COMPOUND IDENTIFICATION - List the analytes that are outside the acceptance criteria.

Sample Number	Compound	MS Ions	RRT	Action

Validator: _____

Date: _____

A-NE - Data Validation Worksheet
 VOA/SV - Pest/PCB-XIII

XIII. SAMPLE QUANTITATION

Recalculate, from the raw data, the concentrations for one positive detect and one reported sample quantitation limit for a non-detect in a diluted sample or soil sample per fraction. (Note: Although Section XIII, C.1.a, requires that one calculation for each fraction in each sample be performed, the validator is only required to reproduce an example, for each fraction, of one positive detect and one sample quantitation limit calculation on this worksheet.)

Do all soil/sediment samples have % solids greater than 30%?
 If no, list sample numbers _____

Y N

Fraction		Calculation
VOA		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		
BNA		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		
Pesticide/PCB		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		

Validator: _____

Date: _____

PA-NE - Data Validation Worksheet
VOA/SV-XIV

XIV. TENTATIVELY IDENTIFIED COMPOUNDS (TICs)

List the 5 TICs having the highest concentration for each sample parameter.

Sample Number	Parameter	Compound	RT	Est. Conc.	Action

Validator: _____

Date: _____

CASE #: _____

SITE NAME: Hows Corner

LAB NAME: Katahdin Analytical

OF SAMPLES/MATRIX: 11 / Aqueous

SDG #: WV

VALIDATION CONTRACTOR: Woodard & Curran

SOW #/CONTRACT #: _____

VALIDATOR'S NAME: Dinsmore

EPA-NE DV TIER LEVEL: II

DATE DP REC'D BY EPA-NE: _____

TPO/PO: **ACTION _____ FYI _____

DV COMPLETION DATE: 12/28/05

ANALYTICAL DATA QUALITY SUMMARY

	VOA	SV	Pest/PCB
1. Preservation and Contractual Holding Times	<input type="radio"/>	_____	_____
2. GC/MS / GC/ECD Instrument Performance Check	<input type="radio"/>	_____	_____
3. Initial Calibration	<input type="radio"/>	_____	_____
4. Continuing Calibration	<input type="radio"/>	_____	_____
5. Blanks	<input type="radio"/>	_____	_____
6. Surrogate Compounds	<input type="radio"/>	_____	_____
7. Internal Standards	<input type="radio"/>	_____	_____
8. Matrix Spike/Matrix Spike Duplicate	_____	_____	_____
9. Sensitivity Check	<input type="radio"/>	_____	_____
10. PE Samples-Accuracy Check	_____	_____	_____
11. Target Compound Identification	_____	_____	_____
12. Compound Quantitation and Reported QLs	<input type="radio"/>	_____	_____
13. Tentatively Identified Compounds	_____	_____	_____
14. Semivolatile Cleanup/Pesticide/PCB Cleanup	_____	_____	_____
15. Data Completeness	_____	_____	_____
16. Overall Evaluation of Data	<input type="radio"/>	_____	_____

o = Data had no problems or were qualified due to minor contractual problems.
 m = Data were qualified due to major contractual problems.
 z = Data were rejected as unusable due major contractual problems.

ACTION ITEMS: (z items) _____

Notes
 AREAS OF CONCERN: (m items) 1 = MeCl₂ detected in all three method blanks; however MeCl₂ not detected in associated samples.
2 = Surrogate recoveries of BFB exceeded criteria for Narris, De Raps, Knight Dug since

COMMENTS: _____

*This form assesses the analytical data quality in terms of contractual compliance only. It does not assess sampling errors and/or non-contractual analytical issues that affect data quality.

**Check "ACTION" only if contractual defects resulted in reduced payment/data rejection recommendations.

Validator: David Dinsmore

Date: 12/28/05

INSTRUCTIONS ON REVERSE SIDE

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: _____

Laboratory Name: _____

Lab Contact: _____

Region: _____

Regional Contact: _____

Call Initiated By: _____ Laboratory _____ Region

In reference to data for the following sample number(s):

Summary of Questions/Issues Discussed:

Summary of Resolution:

Signature

Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

**ATTACHMENT 2
FIELD SAMPLING WORKSHEETS**

**HOWS CORNER SUPERFUND SITE
PLYMOUTH, ME**

DECEMBER 2005

FIGURE 4

WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 36 - Norris

Date: 12/10/05
Time Purge - Start: 0850
Time Purge - Stop: 0900
Sampled: 0900

Weather: _____
Sampler(s) gus

SAMPLING POINT

Kitchen Sink []
Outside Sillcock []
Other _____ []
(Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
Bedrock [] Depth _____ ft.
Other _____ [] Depth _____ ft.
(Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

Guide #	Filtered	Fixed	Analysis Required
ws/Hc (36) Norris (12/10)	A		
	B		

REMARKS

removed aerator
PH < 2.0

FIGURE 4

WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well (21-16) Levesgue

Date: 11/2/05
Time Purge - Start: 0905
Time Purge - Stop: 0915
Sampled: 0915

Weather: _____
Sampler(s): FW

SAMPLING POINT

Kitchen Sink
Outside Sillcock
Other
(Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) Depth _____ ft.
Bedrock Depth _____ ft.
Other Depth _____ ft.
(Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

Guide #	Filtered	Fixed	Analysis Required
WS/Hc (21-16) Levesgue	(12/10) A		
	B		

REMARKS

removed aerator

FIGURE 4

WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 31 knight

Date: 12/10/05
Time Purge - Start: _____
Time Purge - Stop: _____
Sampled: _____

Weather: _____
Sampler(s): well

SAMPLING POINT

Kitchen Sink []
Outside Sillcock []
Other _____ []
(Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
Bedrock [] Depth _____ ft.
Other _____ [] Depth _____ ft.
(Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

Guide #	Filtered	Fixed	Analysis Required
<u>WS/HC (31) # knight (12/10)</u>	<u>A</u>		
	<u>B</u>		
	<u>A Dup</u>		
	<u>B Dup</u>		

REMARKS

aerator removed
Dup taken
pH < 2.0

FIGURE 4

WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 31 G Hopkins

Date: 12/10/05
Time Purge - Start: 0935
Time Purge - Stop: 0945
Sampled: 0945

Weather: _____
Sampler(s) WGS

SAMPLING POINT

Kitchen Sink []
Outside Sillcock []
Other _____ []
(Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
Bedrock [] Depth _____ ft.
Other _____ [] Depth _____ ft.
(Specify)

LAB ANALYSES

Guide # _____ Filtered _____ Fixed _____ Analysis Required _____

Well ID	Guide #	Filtered	Fixed	Analysis Required
WS/Hc (31) G-Hopkins	(12/10)	A		
		3		

REMARKS

could not remove generator

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 7 Melanson

Date: 12/10/05
 Time Purge - Start: 0950
 Time Purge - Stop: 1000
 Sampled: 0100

Weather: _____
 Sampler(s) PLU

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other _____ []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

Guide #	Filtered	Fixed	Analysis Required
WS/HC(7) Melanson	(12/10) A		
	B		

REMARKS

outside

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 2 Skidgel

Date: 12/10/05
 Time Purge - Start: 1005
 Time Purge - Stop: 1015
 Sampled: 1015

Weather: _____
 Sampler(s) MS

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

<u>CWS/MC (2)</u>	<u>Skidgel</u>	<u>(12/10)</u>	<u>A</u>	
			<u>B</u>	

REMARKS

removed aerator

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 11-3 Desops

Date: 12/10/05
 Time Purge - Start: 1020
 Time Purge - Stop: 1030
 Sampled: 1030

Weather: _____
 Sampler(s) per

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other _____ []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

Guide #	Filtered	Fixed	Analysis Required
WS/HC (11-3) Desops	(12/10) A		
	B		

REMARKS

could not remove generator

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well B-1 Foss

Date: 12/10/05
 Time Purge - Start: 1035
 Time Purge - Stop: 1045
 Sampled: 1045

Weather: _____
 Sampler(s): FUG

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other _____ []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide# Filtered Fixed Analysis Required

Guide#	Filtered	Fixed	Analysis Required
<u>WS/Hc (B-1) Foss (12/10)</u>	<u>A</u>		
	<u>B</u>		

REMARKS

removed aerator
pH < 2

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 11-2 Ward

Date: 12/10/05
 Time Purge - Start: 1150
 Time Purge - Stop: 1200
 Sampled: 1200

Weather: _____
 Sampler(s): FW

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other _____ []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide #	Filtered	Fixed	Analysis Required
<u>WS/HC (11-2) Ward (12/10)</u>	<u>A</u>		
	<u>B</u>		

REMARKS

could not remove aerator

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 11-1 Godsoe

Date: 12/10/05
 Time Purge - Start: 1205
 Time Purge - Stop: 1215
 Sampled: 1215

Weather: _____
 Sampler(s): _____

SAMPLING POINT

Kitchen Sink ^{out}
 Outside Sillcock
 Other _____
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide #	Filtered	Fixed	Analysis Required
WS/HC (11-1) Godsoe (11-1)	12/10	A	
		B	

REMARKS

outside

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 32-2 Curtis

Date: 12/10/05
 Time Purge - Start: 1220
 Time Purge - Stop: 1230
 Sampled: 1230

Weather: _____
 Sampler(s): FW

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other _____ []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

Guide #	Filtered	Fixed	Analysis Required
WS/HC (32-2) Curtis (12/10)	A		
	B		

REMARKS

removed aerator

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 14-1 wheels

Date: 1/2/10/05
 Time Purge - Start: _____
 Time Purge - Stop: _____
 Sampled: _____

Weather: _____
 Sampler(s): _____

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other _____ []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

	Guide #	Filtered	Fixed	Analysis Required

REMARKS

a 3 car garage is being built. Frame is up.
A camper/RV is on site, but no sign of use.
No tire tracks in fresh snow - looks unoccupied at the time of this site visit.

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well 11-4 Leaflets

Date: 12/10/05
 Time Purge - Start: 1:00
 Time Purge - Stop: _____
 Sampled: _____

Weather: _____
 Sampler(s): JW

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other _____ []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

Guide #	Filtered	Fixed	Analysis Required

REMARKS

Not home. Left a note saying
 the had to go somewhere. will try
 to reschedule.

FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE

Residential Well _____

Date: _____
 Time Purge - Start: _____
 Time Purge - Stop: _____
 Sampled: _____

Weather: _____
 Sampler(s): _____

SAMPLING POINT

Kitchen Sink []
 Outside Sillcock []
 Other _____ []
 (Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
 Bedrock [] Depth _____ ft.
 Other _____ [] Depth _____ ft.
 (Specify)

LAB ANALYSES

Guide# Filtered Fixed Analysis Required

Guide#	Filtered	Fixed	Analysis Required

REMARKS

Field Blank 12/10/05
 11:15

**FIGURE 4
WATER SAMPLING DATA RECORD -- RESIDENTIAL WELLS
WEST SITE/HOWS CORNER
PLYMOUTH, MAINE**

Residential Well 83-1

Date: 1/2/05
Time Purge - Start: 1005
Time Purge - Stop: _____
Sampled: _____

Weather: _____
Sampler(s): _____

SAMPLING POINT

Kitchen Sink []
Outside Sillcock [1]
Other _____ []
(Specify)

WELL SPECIFICATIONS

Overburden (Hand Dug) [] Depth _____ ft.
Bedrock [] Depth _____ ft.
Other _____ [] Depth _____ ft.
(Specify)

LAB ANALYSES

Guide # Filtered Fixed Analysis Required

Guide #	Filtered	Fixed	Analysis Required

REMARKS

No Sample
NO SIGN OF OCCUPANCY

Client <u>Woodard + Curran</u>	Contact <u>Fio Clausen</u>	Phone # ()	Fax # ()
-----------------------------------	-------------------------------	----------------	--------------

Address <u>41 Hutchins Dr</u>	City <u>Portland</u>	State	Zip Code
----------------------------------	-------------------------	-------	----------

Purchase Order #	Proj. Name / No. <u>Howe's Corner</u>	Katahdin Quote #
------------------	--	------------------

Bill (if different than above)	Address
--------------------------------	---------

Sampler (Print / Sign) <u>Ted Taylor</u>	Copies To:
---	------------

LAB USE ONLY

WORK ORDER #:
KATAHDIN PROJECT NUMBER _____

REMARKS:

SHIPPING INFO: FED EX UPS CLIENT

AIRBILL NO:

TEMP °C TEMP BLANK INTACT NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.
OY ON	OY ON	OY ON	OY ON	OY ON	OY ON	OY ON	OY ON	OY ON	OY ON	OY ON

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.										
	<u>WS/HC(36) Morris (12/10) A</u>	<u>12/10 / 0900</u>	<u>H2O</u>	<u>2</u>	<u>✓</u>									
	<u>B</u>	<u>/ 0900</u>												
	<u>WS/HC(31) Knight (12/10) A</u>	<u>/ 0930</u>												
	<u>B</u>	<u>/ ↓</u>												
	<u>WS/HC(7) Melanson (12/10) A</u>	<u>/ 1000</u>												
	<u>B</u>	<u>/ /</u>												
	<u>WS/HC(11-3) Deraps (12/10) A</u>	<u>/ 1030</u>												
	<u>B</u>	<u>/ /</u>												
	WS/HC(11-3) Deraps (12/10) A	/ 1100												
	B	/ /												
	<u>Field Blank A</u>	<u>/ 1115</u>												
	<u>B</u>	<u>/ /</u>												
	<u>WS/HC(21-16) Levesque (12/10) A</u>	<u>/ 0915</u>												
	<u>B</u>	<u>/ 0915</u>												
	<u>WS/HC(31) Knight (12/10) A DUP</u>	<u>/ 0930</u>												
	<u>B DUP</u>	<u>/ /</u>												

COMMENTS

Relinquished By: (Signature) <u>Ted Taylor</u>	Date / Time <u>12/12 1200</u>	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

Client: Woodard + Curran Contact: Flo Clausen Phone #: () Fax #: ()

Address: 41 Hutchins Dr City: Portland State: Zip Code:

Purchase Order #: Proj. Name / No. Katahdin Quote #

Bill (if different than above) Address:

Sampler (Print / Sign): To: Taylor / [Signature] Copies To:

LAB USE ONLY WORK ORDER #: [Signature]
KATAHDIN PROJECT NUMBER _____

REMARKS: _____

SHIPPING INFO: FED EX UPS CLIENT

AIRBILL NO: _____

TEMP °C TEMP BLANK INTACT NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.	Filt.
Y	N	Y	N	Y	N	Y	N	Y	N	Y	N

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.
	WS/MC (31) G. Hopkins (12/10) A B	12/10/0945 / /	H ₂ O	1
	WS/MC (2) Skidgel (12/10) A B	/ / 1015 / /		1
	Trip Blank A B	12/10 / / /		1
	WS/MC (8-1) Ross (12/10) A B	12/10 / 1045 / /		1
	WS/MC (11-1) Godsoe (12/10) A B	12/10 / 1215 / /		1
	WS/MC (32-2) Curtis (12/10) A B	/ / 1230 / /		1
	WS/MC (11-2) Wood (12/10) A B	/ / 1200 / /		1

COMMENTS

Relinquished By: (Signature) <u>[Signature]</u>	Date / Time <u>12/12 1200</u>	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)