JG Environmental Inc.
WATER RESOURCES CONSULTING

September 19, 2011

VIA E-MAIL

Mr. Joe Lemay
Remedial Project Manager
MA Superfund Section
USEPA - New England
Five Post Office Square, Suite 100
Boston, MA 02109-3912

Re: Coordinated Multi-Party Pre-Phase 1B Work Plan Groundwater Sampling and Water Level Measurements, Central Area, Wells G&H Site, Woburn, Massachusetts

Dear Joe:

On July 6, 2011, representatives of four of the Wells G&H Site Source Area Defendants (Beatrice, Grace, NEP and UniFirst) met and discussed performing a coordinated Central Area groundwater sampling and water level measurement event (the "Coordinated Event"). The purpose of the Coordinated Event is to obtain current water quality and water level data for the Central Area before preparing the Central Area Remedial Investigation (RI) Phase IB Work Plan EPA has requested. The Coordinated Event will include groundwater sampling at a total of 161 wells: 49 of the wells that were described in the May 23, 2011 letter submitted to you on behalf of UniFirst and Grace, as well as 95 wells on the Wildwood and Southwest properties whose sampling was outlined to EPA in the 2010 work plans prepared by AECOM (AECOM, 2010a and 2010b), and 17 of the viable monitoring wells from the NEP property.

All Source Area Defendant representatives who attended the July 6, 2011 meeting agreed that data collected during the Coordinated Event, combined with groundwater quality data collected during a spring 2011 sampling event, will provide essential site-wide information for development of a Central Area Phase 1B Field Investigation Work Plan (the "Phase 1B RI Work Plan"). The results from this planned Coordinated Event and the spring 2011 sampling event will help us to understand the current spatial distribution of contaminated groundwater on the eastern and western sides of the Aberjona River Valley.

The groundwater quality information will assist in the development of the best technical scope of work for the Phase 1B RI Work Plan that EPA has requested. The attached maps (Figures 1 and 2) show the location of wells to be sampled as part of the Coordinated Event, as well as the location of other wells that were sampled in spring 2011. Table 1 includes all these wells and also provides well completion intervals, the most recent sampling date, and the analyses that have been, or will be, done for each well sample.

SDMS Doc ID 519359

1740 Massachusetts Ave. Boxborough, MA 01719-2209 Tel: 978-266-2992 Fax: 978-263-0696 WWW.JGENVIRONMENTAL.COM

Groundwater samples from wells on the eastern side of the Aberjona River will be collected using the low-flow sampling procedures specified in SOP 2 of the Quality Assurance Project Plan (QAPP) for Groundwater Sampling (Tetra Tech GEO, 2011), which will be submitted to you by Wednesday, September 21, 2011. The samples will be sent to Alpha Analytical Services for VOC analysis with standard detection limits using EPA method 8260. The analytical results will be validated according to the procedures specified in the QAPP. Groundwater samples from wells on the western side of the Aberjona River Valley will be collected and analyzed in accordance with the sampling and analysis procedures approved by EPA for the Wildwood and Southwest properties (AECOM, 2010a and 2010b). Following data validation, the validated data will be provided to EPA in GISKey format.

The Coordinated Event will also include collecting synoptic site-wide water level measurements immediately prior to beginning the groundwater sample collection. Water level measurements will be collected from the wells indicated in Table 1. These water level data will also be provided to EPA in GISKey format.

A preliminary project schedule for the activities proposed in this letter is included as Figure 3. The schedule is meant to give a general overview of the timing of activities that will be completed. The timing and duration of these activities may vary from what is shown on the schedule, as factors such as weather, access issues, and resource availability may impact the schedule. The parties expect to begin the Coordinated Event no later than the week of October 10, 2011. We will give EPA 5 working days notice before commencement of the field work. This schedule is necessary for the data to be useful during preparation of the Phase 1B RI Work Plan. As EPA and the Source Area Defendants have discussed in previous Central Area meetings, knowledge regarding current Central Area groundwater quality obtained from selected existing Central Area wells is an important initial step in the preparation of the Phase 1B RI Work Plan.

If you have any questions regarding this proposed sampling, please feel free to contact me at 978-266-2992 (jguswa@jgenvironmental.com) or Anne Sheehan at 603-856-7229 (anne.sheehan@tetratech.com).

Sincerely,

John H. Guswa, Ph. D., LSP
President, Principal Hydrogeologist

References

AECOM, 2010a. Focused Data Gap Investigation Work Plan, Wildwood Property, Wells G&H Superfund Site, Woburn, MA

AECOM, 2010b. Supplemental Remedial Investigation Work Plan, Southwest Properties, Wells G&H Superfund Site, Woburn, MA

Tetra Tech GEO, 2011. Quality Assurance Project Plan for Groundwater Sampling, September, 2011.

CC:
J. Coyne, MassDEP
D. Sullivan, TRC
Greg Bibler, Goodwin Procter
Jay Bridge, TT GEO
Nate Brodeur, Goodwin Procter
Tim Cosgrave, UniFirst
Peter Cox, AECOM
Lydia Duff, W.R. Grace & Co.
Charles Dyer, KL Gates
Lynne Gardner, W. R. Grace
Jack Guswa, JG Environmental
Jeff Hamel, Woodard and Curran
Seth Jaffe, Foley Hoag
Bettina Longino, The Johnson Company
Robert J. Medler, Remedium Group, Inc.
Michael B. Moore, The Johnson Company
Clayton Smith, demaximis
Frank Stearns, KL Gates
Jay Stewart, Lowenstein Sandler

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
AB1	Southwest Properties	U					X	2	9.95	14.95		9/2/1993
AB-201	Southwest Properties	U	X			X	X	2	3	13		4/20/2011
AB-203	Southwest Properties	U	X			X	X	2	3	13		4/21/2011
AB-206	Southwest Properties	U	X			X	X	2	5	15		4/22/2011
AB-207	Southwest Properties	U	X			X	X	2				4/21/2011
AB-211	Southwest Properties	U	X			X	X	2	2	12		4/19/2011
AB-214	Southwest Properties	U	X			X	X	2	5	15		4/20/2011
AB2M	Southwest Properties	U	X			X	X	2	60.61	70.61		4/19/2011
AB2R	Southwest Properties	RS	X			X	X	2	124.13	134.13	104	4/19/2011
AB2SS	Southwest Properties	U	X			X	X	2	5.15	15.15		4/19/2011
AB-4M	Southwest Properties	U					X	2	50	60		NA
AB-4SS	Southwest Properties	U					X	2	5.26	15.26		NA
AB-5M	Southwest Properties	U	X			X	X	2	54.01	64.01		4/21/2011
AB-6M	Southwest Properties	U					X	2	35	45		NA
AB-6SS	Southwest Properties	U					X	2	3.61	13.61		NA
ABS5 (PZ-10)	Southwest Properties	U	X			X	X	2				4/28/2011
BCW10	Wildwood	U	X				X	2	29	34		4/19/2011
BCW13	Wildwood	U	X				X	2	45	50		4/19/2011
BCW14	Wildwood	U	X				X	2	57.5	62.5		4/22/2011
BCW15	Wildwood	U	X				X	2	33	38		4/20/2011
BCW18	Wildwood	U	X				X	2	33	38		4/20/2011
BOW10	Wildwood	U	X				X	2	2.5	12.5		4/19/2011
BOW14	Wildwood	U	X				X	2	4	14		4/21/2011
BOW16	Wildwood	U	X					2	35	45		4/18/2011
BOW6	Wildwood	U	X				X	2	26.5	31.5		4/22/2011
BOW8	Wildwood	U	X		X		X	2	3	13		4/20/2011
BOW9	Wildwood	U	X				X	2	4	14		4/27/2011
BSSW15	Wildwood	U	X				X	2	2.5	12.5		4/19/2011
BSSW16	Wildwood	U	X			X		2	2.5	12.5		4/18/2011
BSSW17	Wildwood	U	X				X	2	2.5	12.5		4/27/2011
BSSW5	Wildwood	U	X		X		X	2	2.5	12.5		4/20/2011
BSW1	Wildwood	U	X	X			X	2	25	35		4/25/2011
BSW10	Wildwood	U	X				X	2	17	22		4/19/2011
BSW12	Wildwood	U	X					2	28.5	33.5		4/21/2011
BSW13	Wildwood	U	X				X	2	18	23		4/19/2011
BSW14	Wildwood	U	X				X	2	24	29		4/22/2011
BSW2	Wildwood	U	X				X	2	10	20		4/26/2011
BSW6	Wildwood	U	X				X	2	20	24.8	29	4/22/2011
BSW7	Wildwood	U	X		X		X	2	9	13.8		4/21/2011
BSW8	Wildwood	U					X	2	18	23		9/9/1992

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
BSW9	Wildwood	U					X	2	20	25		4/5/1994
BW10	Wildwood	RS	X				X	2	45	55	39.5	4/19/2011
BW11	Wildwood	U					X	2	29	34		4/21/2011
BW12	Wildwood	U	X					2	75	80		4/21/2011
BW13	Wildwood	RS	X				X	2	61.8	66.8	57.5	4/19/2011
BW14	Wildwood	RS	X				X	2	75	85	70	4/21/2011
BW14RD	Wildwood	RS	X				X	2	73	120		4/21/2011
BW15RP	Wildwood	RS	X				X	2	53.5	63.5	49	4/19/2011
BW16R	Wildwood	RS	X			X		2	123	133	117	4/22/2011
BW17R	Wildwood	RS	X				X	2	61.7	71.7	54.8	4/27/2011
BW18RD-U	Wildwood	RS	X				X	8	53	74	33	4/26/2011
BW-19R	Wildwood	RS					X	6	44.05	54.05		4/20/2011
BW2	Wildwood	U	X				X	2	34.5	44.5		4/26/2011
BW-206	Wildwood	U	X				X	2	17	22		4/25/2011
BW-208	Wildwood	U	X				X	2	3	8		4/25/2011
BW2R	Wildwood	RS	X				X	2	85	95	80	4/26/2011
BW5	Wildwood	U	X		X		X	2	30	40		4/20/2011
BW5R	Wildwood	RS	X		X		X	2	48	58	43	4/20/2011
BW6R	Wildwood	RS	X	X			X	2	37.5	47.5	32.5	4/22/2011
BW6RD-L	Wildwood	RS	X	X			X	8	90	132.5	33.5	4/22/2011
BW6RD-U	Wildwood	RS	X				X	12	40	74	33.5	4/22/2011
BW7	Wildwood	U	X		X		X	2	29.7	39.4		4/21/2011
BW8	Wildwood	RS	X		X		X	2	66	76	61.5	4/20/2011
BW9	Wildwood	RS	X				X	2	34	44	28.9	4/27/2011
DP11	Central Area	U					X	0.38	9.6	10.6		8/3/1993
DP1D	Central Area	U	X				X	0.38	16.6	17.6		12/17/1991
DP1S	Central Area	U	X				X	0.38	6.6	7.6		12/17/1991
DP24D	Central Area	U					X	0.38	12.8	13.8		8/6/1993
DP24S	Central Area	U					X	0.38	10.4	11.4		4/5/1993
DP2D	Central Area	U					X	0.38	36.2	37.2		4/5/1993
DP2M	Central Area	U					X	0.38	21	22		4/5/1993
DP2S	Central Area	U					X	0.38	6.6	7.6		4/5/1993
DP3	Central Area	U					X	0.38	14.2	15.2		12/17/1991
DP36	Central Area	U					X	0.38	8	9		4/23/1993
DP37D	Central Area	U					X	0.38	17	18		4/23/1993
DP37S	Central Area	U					X	0.38	14.1	15.1		5/27/1992
DP40	Central Area	U					X	0.38	8.5	9.5		7/30/1993
DP6D	Central Area	U	X				X	0.38	27.6	28.6		8/9/1993
DP7	Central Area	U	X				X	0.38	19.6	20.6		8/9/1993

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
East Well	Southwest Properties (275 Salem St)	U					X	2				NA
EPA1	NEP	U	X				X	2	20	30	30	10/7/2010
EPA2	NEP	U	X				X	2	22	32		7/1/2001
EPA3	NEP	U	X				X	2	18	28	35	7/1/2001
EW-1	NEP	U	X				X	6	4	19	21	10/7/2010
G11D	Grace	RS	X				X	1.5	29	44	24	4/25/2011
G11S	Grace	U	X				X	2	16	21		4/27/2011
G12D	Grace	RS	X				X	1.5	36	46	25.5	4/25/2011
G12S	Grace	U	X				X	2	15	25	25	4/25/2011
G13D	Grace	RS	X				X	1.5	37.2	52.2	25.8	4/25/2011
G13S	Grace	U	X				X	2	17	27		4/25/2011
G16D	Grace	RS	X				X	1.5	44.3	59.3	37.5	4/25/2011
G16S	Grace	U					X	2	20.1	30.1	29.6	3/30/1989
G17D	Grace	RS					X	1.5	57	72	50.3	12/24/1985
G17S	Grace	U					X	2	37.2	47.2		12/24/1985
G19D	Grace	RS	X				X	1.5	58.8	73.8	54	4/25/2011
G19M	Grace	U	X				X	2	34.5	44.5	47	4/25/2011
G19S	Grace	U	X				X	2	10	20		4/25/2011
G1D	Grace	RS	X				X	2	41.5	51.5	34.5	4/25/2011
G1DB	Grace	RS	X	X			X	1.25	91	96	31	4/25/2011
G1DB2	Grace	RD	X				X	1.25	135	140	31	4/25/2011
G1DB3	Grace	RD	X				X	1.25	185	190	31	8/10/2011
G1S	Grace	U	X				X	2	26.5	36.5		4/25/2011
G20D	Grace	RS	X				X	1.5	70	85	63.5	4/25/2011
G20M	Grace	U	X				X	2	48.4	58.4		4/25/2011
G20S	Grace	U	X				X	2	25	35		4/25/2011
G21D	Grace	RS	X				X	1.5	33	48	28	4/25/2011
G21S	Grace	U	X				X	2	19	29		4/25/2011
G22D	Grace	RS	X				X	1.5	37.8	52.8	32.5	4/25/2011
G22S	Grace	U	X				X	2	17.3	32.3	32.2	4/25/2011
G23D	Grace	RS	X				X	1.5	32.5	47.5	27	4/25/2011
G23S	Grace	U	X				X	2	16	26	24.5	4/25/2011
G24D	Grace	RS	X				X	1.5	32	47	23	4/25/2011
G24S	Grace	U	X				X	2	16	26		4/25/2011
G26D	Grace	RS					X	1.5	25	40	23	3/30/1989
G26S	Grace	U					X	2	11	21	22.6	3/30/1989
G28D	Grace	RS	X				X	1.5	29.5	44.5	25	4/25/2011
G28S	Grace	U	X				X	2	14.6	24.6		4/25/2011
G29S	Grace	U	X				X	2	9.7	24.7		8/10/2011

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
G2D	Grace	RS					X	2	34.5	49.5	29	12/6/1985
G2DB	Grace	RD					X	1.5	211.5	221.5	23.5	3/18/1992
G2DB2	Grace	RD					X	1.5	341.5	351.5	26.5	3/18/1992
G2M	Grace	U					X	2	23	28		12/6/1985
G2S	Grace	U					X	2	9	19		12/6/1985
G36D	Grace	RS	X				X	1.5	41	51	31	4/25/2011
G36DB2	Grace	RD	X				X	1.5	207	217	30.6	4/25/2011
G36DBR	Grace	RS	X	X			X	2	73	83	36.5	4/25/2011
G36S	Grace	RS	X				X	2	28	38	31	4/25/2011
G37D	Grace	RS	X				X	2	75.3	85.3	60	4/25/2011
G37S	Grace	U	X				X	2	43.3	53.3		4/25/2011
G38D	Grace	RS	X				X	2	46.6	56.6	37.2	4/25/2011
G38S	Grace	U	X				X	2	23.8	33.8		4/25/2011
G39D	Central Area	RS	X				X	2	37.9	47.9	30	4/25/2011
G39S	Central Area	U	X				X	2	15.4	25.4		4/25/2011
G3D	Grace	RS					X	2	46.4	61.4	38.6	5/16/2005
G3S	Grace	U					X	2	22	37		5/13/2005
G5D	Grace	RS					X	2	26	41	19.5	12/6/1985
G5S	Grace	U					X	2	11	21		12/6/1985
G8S	Grace	U					X	2	34	44		12/6/1985
G9S	Grace	U					X	2	13	18		10/28/1987
GO1D	Central Area	RS	X				X	1.5	24.3	39.3	19	8/10/1993
GO1DB	Central Area	RS	X				X	1.5	55	70	19.3	4/18/2011
GO1S	Central Area	U	X				X	2	8	18	18	4/14/2011
IUS1	Central Area	RS					X	2	12	26.5	11.7	2/15/1991
IUS2A	Central Area	RS					X	2	71	89	71	2/14/1991
IUS2B	Central Area	U					X	2	40	55		2/14/1991
IUS2C	Central Area	U					X	2	10	20		2/14/1991
IUS3A	Central Area	U					X	2	47	63	55	2/12/1991
IUS3B	Central Area	U					X	2	30	45		2/12/1991
IUS3C	Central Area	U					X	2	4.8	24.6		2/13/1991
K42D	Central Area	U	X				X	1.12	65	66		7/26/1993
K42M	Central Area	U	X				X	1.12	45	46		7/27/1993
K42S	Central Area	U	X				X	1.12	20	21		7/27/1993
K47	Central Area	U					X	1.12	14.4	15.4		7/22/1993
K48	Central Area	U	X				X	1.12	15.6	16.6		7/28/1993
K55M	Central Area	U	X				X	1.12	28.2	29.2		9/9/1993
K55S	Central Area	U	X				X	1.12	16.8	17.8		4/15/2011
K56M	Central Area	U	X				X	1.12	27	28		7/26/1993
K60D	Central Area	U	X				X	1.25	46.1	47.1		10/19/1993

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
K60M	Central Area	U	X				X	1.25	39	40		10/19/1993
K60S	Central Area	U	X				X	1.25	30	31		4/13/2011
K62M	Central Area	U	X				X	1.25	37	38		10/19/1993
K62S	Central Area	U	X				X	1.25	32	33		4/27/2011
K64D	Central Area	U					X	1.25	41.9	42.9		10/20/1993
MIRRA Well	Southwest Properties (271 Salem St)	U					X	2				NA
MR1SS	Southwest Properties	U					X	2	3	13		8/31/1993
MR-201	Southwest Properties	U	X			X	X	2	3.25	13.25		4/22/2011
MR-204	Southwest Properties	U	X			X	X	2	4	14		4/25/2011
MR-206	Southwest Properties	U	X			X	X	2	4	14		4/25/2011
MW-101	Southwest Properties (283 Salem St)	U					X	0.75				NA
MW-11	Southwest Properties (Murphy Property)	U					X	2	3.85	13.85		NA
MW-12	Southwest Properties (Murphy Property)	U				X	X	1	5.04	8.04		4/27/2011
MW-13	Southwest Properties (Murphy Property)	U					X	2	4.96	7.96		NA
MW-15	Southwest Properties (Murphy Property)	U					X	2	4.87	14.87		NA
MW-16	Southwest Properties (Murphy Property)	U	X			X	X	2	5.92	14.92		4/27/2011
MW-18S	Southwest Properties (Murphy Property)	U				X	X	2	7.95	12.95		4/27/2011
MW-19	Southwest Properties (Murphy Property)	U					X	2	5	8		NA
MW-2	Southwest Properties (Murphy Property)	U					X	2	7.3	17.3		NA
MW-201	Southwest Properties (271 Salem St)	U					X	2				NA
MW-202	Southwest Properties (271 Salem St)	U					X	2				NA
MW-21	Southwest Properties (Whitney)	U					X	1	5.04	8.04		NA
MW-24	Southwest Properties (Murphy Property)	U				X	X	2				4/27/2011
MW-3S	Southwest Properties (Murphy Property)	U	X			X	X	2	6.13	16.13		4/27/2011

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
MW-4	Southwest Properties (Murphy Property)	U					X	2	7.44	17.44		NA
MW-4D	Southwest Properties (Whitney)	RS	X			X	X	2	90	95	77	4/21/2011
MW-4M	Southwest Properties (Whitney)	U	X			X	X	2	35	45		4/21/2011
MW4S	Southwest Properties (Whitney)	U	X			X	X	2	3	13		4/21/2011
MW-5S	Southwest Properties (Whitney)	U					X	2	7.8	17.8		NA
MW-5S	Southwest Properties (Murphy Property)	U					X	2	7.2	17.2		NA
MW-6	Southwest Properties (Murphy Property)	U					X	2	9.82	19.82		NA
MW-6M	Southwest Properties (Whitney)	U	X				X	2	35	45		4/28/2011
MW-6S	Southwest Properties (Whitney)	U	X			X	X	2	8.14	18.14		4/21/2011
MW-7	Southwest Properties (Murphy Property)	U				X	X	2	2.64	11.64		4/25/2011
MW-8	Southwest Properties (Murphy Property)	U					X	2	5.4	14.39		NA
MW-9	Southwest Properties (Murphy Property)	U				X	X	2	4.46	13.46		4/22/2011
NEP101	NEP	U	X				X	2	5	12	21	10/7/2010
NEP101B	NEP	RS	X				X	2	25	30	21	10/7/2010
NEP103	NEP	U	X				X	2	6.4	11.6	12	7/1/2001
NEP103B	NEP	RS	X				X	2	20	27	12	7/1/2001
NEP104	NEP	U	X				X	2	11	18	26	10/7/2010
NEP104B	NEP	RS	X				X	2	35	42	26	10/7/2010
NEP105B	NEP	RS	X				X	2	15	22	7	7/1/2001
NEP106B	NEP	RS	X				X	2	41	48	29	10/7/2010
NEP107B	NEP	RS	X				X	2	44	51	35	7/1/2001
NEP108	NEP	U	X				X	2	21	31	34	10/6/2010
NEP108B	NEP	RS	X				X	2	50	55	34	10/6/2010
NEP109	NEP	U	X				X	2	7	17	17	7/1/2001
NEP110B	NEP	RS	X				X	3.5	9	100	5	7/1/2001
NEP111	Central Area	U					X	2	12	22		4/15/2011
NEP112	Central Area	U					X	2	15	25		4/15/2011
PZ-10	Wildwood	U					X					NA

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
PZ-1A	Wildwood	U					X	1	23	24		NA
PZ-1B	Wildwood	U					X	1	27	28		NA
PZ-3	Wildwood	U					X					NA
PZ-6	Wildwood	U					X					NA
PZ-8	Wildwood	U					X					NA
PZ-9	Wildwood	U					X					NA
RW10	Grace	RS	X	X			X	4	25	45	32	4/26/2011
RW11	Grace	RS	X				X	4	29.3	49.3	32	4/26/2011
RW12	Grace	RS	X				X	4	24.6	44.6	34.5	4/26/2011
RW13	Grace	RS	X				X	4	16	36	24.3	4/26/2011
RW14	Grace	RS	X				X	4	11.8	31.8	19	4/26/2011
RW15	Grace	RS	X				X	4	12.4	32.4	22	4/26/2011
RW16	Grace	RS	X				X	4	11.6	31.6	20.7	4/26/2011
RW17	Grace	RS	X	X			X	4	14.1	34.1	20.3	4/26/2011
RW18	Grace	RS	X				X	4	13.5	33.5	22	4/26/2011
RW19	Grace	RS	X				X	4	14.2	34.2	22.2	4/26/2011
RW20	Grace	RS	X				X	4	19.3	39.3	28	4/26/2011
RW21	Grace	RS	X				X	4	16.2	36.2	25.5	4/26/2011
RW22RE	Grace	RS	X	X			X	4	24	79	54	4/26/2011
RW7	Grace	RS	X				X	4	28	48	30	4/26/2011
RW8	Grace	RS	X				X	4	28	48	30	4/26/2011
RW9	Grace	RS	X				X	4	25	45	32	4/26/2011
S10	Southwest Properties (6 Lincoln Rd)	U					X	1.4	4	87	77	11/5/1987
S11	Southwest Properties (MIRRA)	U					X	1.4	4	86	75	11/4/1987
S21	Central Area	RS	X					1.5	4	31.5	21	4/15/2011
S22	Central Area	U	X					1.5	4	44	36.5	4/15/2011
S63D	Central Area	RS	X				X	1.5	26	36	22	5/7/1996
S63S	Central Area	U	X				X	1.5	12	22		4/12/2011
S64D	Central Area	RS	X				X	1.5	40	55	35	8/11/1993
S64M	Central Area	U	X				X	1.5	27	32		8/11/1993
S64S	Central Area	U	X				X	1.5	10	15		8/11/1993
S65DR	Central Area	RS	X				X	2	47	57	38.5	8/11/1993
S65M	Central Area	U	X				X	1.5	27	37		8/6/1993
S65S	Central Area	U	X				X	1.5	4	24		4/27/1993
S66D	Central Area	RS					X	1.5	19.7	34.7	11.5	9/20/1993
S67D	Central Area	RS	X				X	1.5	60	75	54	4/23/1997
S67M	Central Area	U	X				X	1.5	33	43		4/23/1997
S67S	Central Area	U	X				X	1.5	24	34		4/23/1997

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
S68D	Central Area	U	X				X	1.5	55	105	105	10/16/2002
S68S	Central Area	U	X				X	1.5	14.5	45		8/21/1991
S69D	Central Area	RS	X				X	1.5	40	55	35	8/4/1993
S70D	Unifirst	RS	X				X	1.5	67	82	62	4/18/2011
S70M	Unifirst	U					X	1.5	42	62		5/6/1996
S70S	Unifirst	U	X				X	1.5	15	30		4/7/2011
S71D	Unifirst	RS	X				X	1.5	22.7	42.7	16.5	4/20/2011
S71S	Unifirst	U	X				X	1.5	11	16		4/11/2011
S77D	Wildwood	U	X		X	X	X	1.5	133.5	138.5		4/20/2011
S77M	Wildwood	U	X		X	X	X	1.5	70	75		4/20/2011
S77S	Wildwood	U	X		X	X	X	1.5	25	30		4/20/2011
S77SS	Wildwood	U	X				X	1.5	8	13		4/20/2011
S78R	Wildwood	RS	X				X					4/25/2011
S7R	Central Area	U					X	2	18	23		11/15/1994
S81D	Central Area	RS	X				X	1.5	67	82	62	4/19/2011
S81M	Central Area	U	X				X	1.5	35	50		4/19/2011
S81S	Central Area	U	X				X	1.5	10	20		4/19/2011
S82	Central Area	U	X				X	1.5	25	35		10/15/2002
S83	Southwest Properties	U					X	1.5	70	80		11/5/1987
S83SS	Southwest Properties	U					X	2	3	13		8/30/1993
S84D	Central Area	U	X				X	1.5	73	78	81.5	8/20/1991
S84M	Central Area	U	X				X	1.5	40	45		8/20/1991
S84S	Central Area	U	X				X	1.5	13	18		8/20/1991
S85M	Central Area	U	X				X	1.5	65	71		9/2/1993
S85S	Central Area	U	X				X	1.5	20	30		10/15/2002
S86D	Central Area	U	X				X	1.5	47	52		8/26/1991
S86S	Central Area	U	X				X	1.5	20	30		10/16/2002
S87D	Central Area	U	X				X	2	76.5	78.5		10/15/2002
S87M	Central Area	U	X				X	2	37	39		8/23/1991
S87S	Central Area	U	X				X	2	7	9		8/23/1991
S88D	Wildwood	U	X				X	2	77	79		10/6/1992
S88M	Wildwood	U	X				X	2	37	39		10/7/1992
S88S	Wildwood	U	X				X	2	7	9		10/7/1992
S90D	Central Area	RS	X				X	2	65	67	66	8/22/1991
S90M	Central Area	U	X				X	2	37	39		8/22/1991
S90S	Central Area	U	X				X	2	7	9		8/22/1991
S92D	Wildwood	U	X		X		X	2	76.5	78.5		4/26/2011
S92I	Wildwood	U	X		X		X	2	55	57		4/26/2011
S92M	Wildwood	U	X				X	2	37	39		4/26/2011
S92S	Wildwood	U	X		X		X	2	9	14		4/26/2011

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
S94D	Central Area	U	X				X	2	76.6	78.6		8/20/1991
S94M	Central Area	U	X				X	2	37	39		8/20/1991
S94S	Central Area	U	X				X	2	12	14		8/20/1991
S95D	Wildwood	U	X	X	X		X	2	73	75		4/25/2011
S95M	Wildwood	U	X	X	X		X	2	37	39		4/25/2011
S95S	Wildwood	U	X		X		X	2	9	14		4/25/2011
S97D	Central Area	RS	X				X	2	36.5	44	33.5	9/2/1993
S97M	Central Area	U					X	2	23	25		NA
S97S	Central Area	U	X				X	2	9	14		11/19/1985
Snyder Creek	Grace	U					X					8/11/2010
Staff Gauge	Wildwood	U					X					NA
UC10-1	Unifirst	RD	X				X	3.5	243	243	77	4/21/2011
UC10-2	Unifirst	RD	X				X	3.5	227	227	77	4/21/2011
UC10-3	Unifirst	RS	X					3.5	182	182	77	4/21/2011
UC10-4	Unifirst	RS	X				X	3.5	158	158	77	4/21/2011
UC10-5	Unifirst	RS	X					3.5	128	128	77	4/21/2011
UC10-6	Unifirst	RS	X					3.5	93	93	77	4/21/2011
UC10D	Unifirst	U	X				X	2	49.5	54.5		4/19/2011
UC10M	Unifirst	U	X				X	2	31	36		4/19/2011
UC10S	Unifirst	U	X				X	2	10	20		4/5/2011
UC11-2	Central Area	RD	X				X	3.5	273	273	22	4/22/2011
UC12-2	Central Area	RD					X	3.5	274	274	32	1/19/1988
UC12-5	Central Area	RS					X	3.5	94	94	32	9/19/1990
UC14-1	Central Area	RD	X				X	3.5	339	339	74.1	4/21/1997
UC15D	Unifirst	RD					X	2	270	280	51	NA
UC15S	Unifirst	RS					X	2	78.1	88.1	51	NA
UC16	Unifirst	RS					X	6	11	28.4	8	8/10/1993
UC17	Unifirst	RS					X	6	11.7	30	9	8/11/1993
UC18	Unifirst	RS	X				X	6	13.4	33	10.5	4/7/2011
UC19	Unifirst	RS	X				X	6	40.3	58.6	37.5	4/20/2011
UC19M	Unifirst	U	X				X	2	27.5	32.5		4/20/2011
UC19S	Unifirst	U	X				X	2	6.5	16.5		4/5/2011
UC20	Unifirst	RS					X	6	8	27	6.3	8/6/1993
UC22	Unifirst	RD					X	8	15	190	9	5/2/2000
UC22	Unifirst	RS					X	8	15	190	9	5/2/2000
UC23-1	Unifirst	RD					X	6	400	400	13.5	2/27/1991
UC23-2	Unifirst	RD					X	6	384	384	13.5	2/26/1991
UC23-3	Unifirst	RD					X	6	304	304	13.5	5/30/1991
UC23-4	Unifirst	RD					X	6	265	265	13.5	2/28/1991
UC23-5	Unifirst	RD					X	6	243	243	13.5	2/26/1991

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
UC24D	Unifirst	U					X	2	47	52	57.2	8/6/1993
UC24S	Unifirst	U	X				X	2	9	19		4/5/2011
UC25	Unifirst	U	X				X	2	5.5	15.5		4/11/2011
UC26D	Unifirst	U					X	2	29.8	34.8		1/19/1994
UC26S	Unifirst	U	X	X			X	2	9	15.8		4/11/2011
UC29D	Unifirst	U					X	2	19.8	24.8		1/19/1994
UC29S	Unifirst	U	X	X			X	2	10	16.8		4/11/2011
UC30	Unifirst	U	X				X	2	9	14.8	14	4/7/2011
UC31D	Unifirst	U					X	2	46.8	51.8		1/19/1994
UC31M	Unifirst	U					X	2	28.8	33.8		1/19/1994
UC31S	Unifirst	U	X				X	2	11	17.2		4/5/2011
UC32	Unifirst	U					X					NA
UC33	Unifirst	U	X				X					4/8/2011
UC34	Unifirst	U					X					NA
UC35	Unifirst	U					X					NA
UC36	Unifirst	U					X					NA
UC4	Unifirst	RS	X				X	2	9.9	19.8	8	4/7/2011
UC5	Unifirst	RS	X				X	2	8.9	18.8	9	4/11/2011
UC6	Unifirst	U	X	X			X	2	33.1	43	54.5	4/18/2011
UC6S	Unifirst	U	X	X			X	2	8	18		4/8/2011
UC7-1	Unifirst	RD	X					3.5			16.5	4/22/2011
UC7-2	Unifirst	RD	X	X				3.5			16.5	4/22/2011
UC7-3	Unifirst	RS	X					3.5			16.5	4/22/2011
UC7-4	Unifirst	RS	X	X				3.5			16.5	4/22/2011
UC7-5	Unifirst	RS	X					3.5			16.5	4/22/2011
UC7A-1	Unifirst	RD					X	3.5	133	133	16.5	2/3/1987
UC7A-2	Unifirst	RS					X	3.5	104	104	16.5	2/3/1987
UC7A-3	Unifirst	RS					X	3.5	77	77	16.5	2/4/1987
UC7A-4	Unifirst	RS					X	3.5	41	41	16.5	2/4/1987
UC7A-5	Unifirst	RS					X	4.5	16	16	16.5	2/4/1987
UC8	Unifirst	RS					X	4.5	7.7	20.8	8.3	7/30/2010
UG10	Central Area	U	X				X	2	7.2	17.2		4/15/2011
UG11	Central Area	U	X				X	2	10.9	20.9		4/14/2011
UG1-1	Central Area	RD					X	4.5	489	489	23	NA
UG12	Central Area	RS	X				X	2	15.8	25.8	18.7	4/12/2011
UG1-2	Central Area	RD	X				X	4.5	481	481	23	5/7/1996
UG13	Central Area	U	X				X	2	12.7	22.7		4/12/2011
UG14	Central Area	U	X				X	2	18.4	28.4		4/14/2011
UG1-4	Central Area	RD	X				X	6	227	227	23	4/22/2011
UG15	Central Area	U	X				X	2	14.8	24.8		4/14/2011

Table 1. Locations to be Included in Coordinated Sampling Event.

Well Name	Location	Formation	VOCs	1,4-Dioxane	SI*	Other	Water Level	Well Diameter (in)	Depth to Top Of Screen (ft)	Depth to Bottom Of Screen (ft)	Depth to Bedrock (ft)	Most Recent Sample Date
UG1-5	Central Area	RD	X				X	6	172	172	23	3/23/1994
UG16	Central Area	U	X				X	2	7.6	17.6		4/13/2011
UG17	Central Area	U	X				X	2	9.3	19.3		4/15/2011
UG1-7	Central Area	RS					X	6	121	121	23	5/7/1996
UG18	Central Area	U	X				X	2	14.3	24.3	20	4/12/2011
UG19	Central Area	U	X				X	2	19.5	29.5	27.3	4/14/2011
UG20	Central Area	U	X				X	2	16.7	26.7	22	4/13/2011
UG8	Central Area	U	X				X	2	3.2	13.2		4/12/2011
UG9	Central Area	U	X				X	2	8.5	18.5		4/13/2011
WB1	Southwest Properties	U					X	2				NA
WB-201M	Southwest Properties	U	X			X	X	2	35	45		4/28/2011
WB-201S	Southwest Properties	U	X			X	X	2	3	13		4/28/2011
WB-206	Southwest Properties	U	X			X	X	2	2	12		4/22/2011
WB-209	Southwest Properties	U	X			X	X	2	2	12		4/22/2011
WB-213	Southwest Properties	U	X			X	X	2	3	13		4/21/2011
WB-215	Southwest Properties	U	X			X	X	2	2	12		4/21/2011
WB-216	Southwest Properties	U	X			X	X	2	3	13		4/21/2011
WB-220	Southwest Properties	U	X			X	X	2	3	13		4/20/2011
West Well	Southwest Properties (275 Salem St)	U					X	2				NA

NA - Not applicable

SI: Supplemental Indicators (ethylene, ethane, methane, nitrate, sulfate, TOC, COD, Chloride, Hack field colormeter measurements of ferrous iron, YSI measurements of dissolved oxygen and oxidation reduction potential)

Other: VPH/EPH (with PAHs by SIM), Pesticides, PCB congeners, Metals

Formation: U - well completed in unconsolidated deposits, RS - well completed in upper 100 feet of bedrock, RD - well completed >100 feet below top of bedrock

Unconsolidated Deposits Wells

- Wells To Be Sampled, Fall 2011
- Wells Already Sampled, Spring 2011
- Other Unconsolidated Deposits Wells
- Rivers
- Source Area Properties
- NWI Wetlands
- Lakes

Note: Well names in bold indicate wells included in 2011 sampling events.

UNCONSOLIDATED DEPOSITS WELL LOCATION MAP
WELLS G & H SITE
WOBURN, MASSACHUSETTS

ddms
www.ddmsinc.com
1217 Bandana Blvd N
St. Paul, MN 55108

FIGURE 1

Drawn by:	BJR	Date:	09/16/2011
Reviewed by:	MEP	Date:	
Scale:	1" = 200'	Project:	2025-0001

ddms Server Path: R:\Projects\WXYZ\WRGrace and Unifirst-2025\0001-Wells G and H\DataAnalysis\GISData\Projects\110908_CoordinatedSampling\Final_CoordinatedSampling_ARCH_D_unconsolidated_aerial.mxd

Bedrock Wells Greater Than 100 Feet Deep

- Wells To Be Sampled, Fall 2011
- Wells Already Sampled, Spring 2011
- Other Wells Greater than 100 Feet Deep

Bedrock Wells Less Than 100 Feet Deep

- Wells To Be Sampled, Fall 2011
- Wells Already Sampled, Spring 2011
- Other Wells Less than 100 Feet Deep

- Rivers
- Source Area Properties
- Lakes
- NWI Wetlands

Notes: Well names in bold indicate wells included in 2011 sampling events.
Well UC22 is included in both depth intervals; it is screened from 15 to190 feet below ground surface.

BEDROCK WELL LOCATION MAP
WELLS G & H SITE
WOBURN, MASSACHUSETTS

ddms
www.ddmsinc.com
1217 Bandana Blvd N
St. Paul, MN 55108

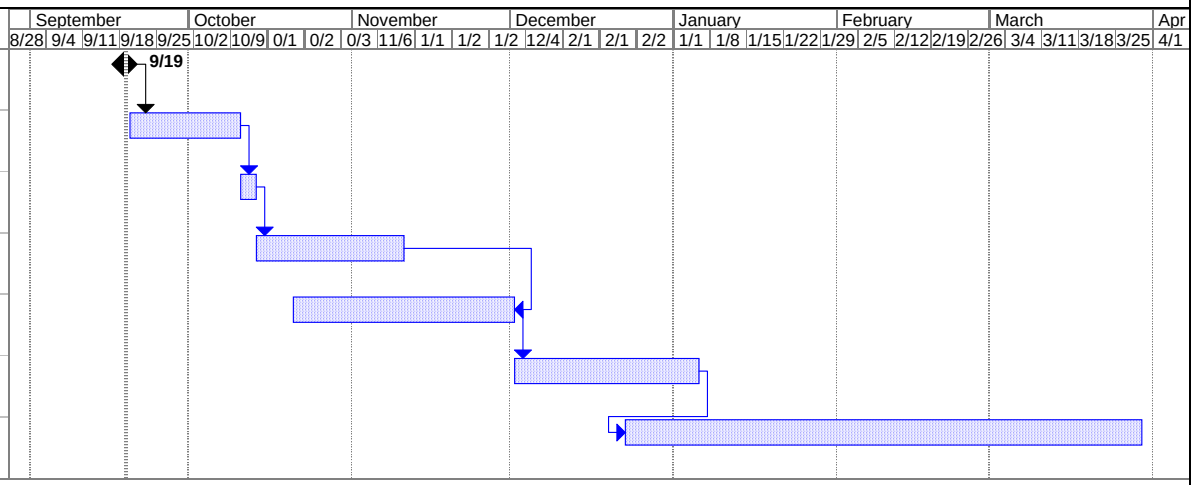
FIGURE 2

Drawn by:	BJR	Date:	09/16/2011
Reviewed by:	MEP	Date:	
Scale:	1" = 200'	Project:	2025-0001

ddms Server Path: R:\Projects\WXYZ\WRGrace and Unifirst-2025\0001-Wells G and H\DataAnalysis\GISData\Projects\110908_CoordinatedSampling\Final_CoordinatedSampling_ARCH_D_Bedrock_aerial.mxd

Figure 3. Preliminary Schedule for Coordinated Event Implementation

ID	Task Name
1	Submit sampling letter and QAPP to USEPA
2	Coordinate Field Work
3	Conduct Water Level Monitoring
4	Conduct Groundwater Sampling
5	Laboratory Analysis
6	Data Validation
7	Preparation of Phase 1B Remedial Investigation Work Plan



Project: Screening Sampling Schedule
Date: Mon 9/19/11

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	