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Site: Wells G&H
Break: 3.2
Other: 549622

environmental and engineering excellence

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April 6, 1988

Ms. Barbara Newman
United States Environmental Protection Agency
Region I
JFK Federal Building
Boston, MA 02203-2211

Dear Ms. Newman:

Enclosed please find an updated summary table of VOC analytical results for ground-water samples taken at the Unifirst site in Woburn. As we discussed yesterday, a second round of samples was recently taken from UC13 and UC14 will be sampled later this week.

Please let me know if you have any questions regarding these data.

Sincerely,

T Cosgrove

Timothy M. Cosgrave
Senior Hydrogeologist

TMC/hs

enclosure

cc: J. Bates, Goodwin, Procter, & Hoar
J. Lawson, ERT

WELL NO.	DEPTH OF PORT (FEET BELOW GROUND SURFACE)	DATE	ANALYSIS METHOD	TETRACHLORO-ETHENE	TRICHLORO-ETHENE	TRANS 1,2 DICHLORO-ETHENE	1,1,1 TRICHLORO-ETHANE	1,1 DICHLORO-ETHANE	1,1 DICHLORO-ETHENE	TOLUENE	ACETONE	CARBON TETRACHLORIDE
UC21-A	SWAMP	1/21/88	624	2600	110	ND	ND	ND	ND	ND	ND	ND
UC21-B	TOC	1/20/88	601	9700	450	ND	23	38	14	-	-	ND
		1/21/88	624	6400	400	ND	ND	ND	ND	ND	ND	ND
UC21-C	82	1/25/88	601	3400	130	ND	ND	ND	ND	-	-	ND
			601	3660	120	ND	ND	21	ND	-	-	ND
			624	2000	ND	ND	ND	ND	ND	ND	ND	ND
			624	2600	ND	ND	ND	ND	ND	ND	ND	ND
UC21-D	140	1/21/88	624	4100	360	41	ND	ND	ND	ND	ND	ND
UC21-E	194	1/12/88	601	210	20	ND	ND	ND	ND	-	-	ND
UC21-F	240	1/21/88	624	4500	490	48	ND	44	ND	ND	ND	ND
		1/21/88	624	6800	420	45	ND	37	ND	ND	ND	ND
		1/22/88	601	13800	684	46	25	79	32	-	-	ND

NOTES:

1. ND = Not detected
   - = Not reported
   TOC = Top of Casing
2. The detection limits vary substantially among the parameters analyzed for and the samples. Refer to the laboratory data sheets for specific detection limits.
3. All field blanks and shipping blanks have no detectable concentrations of VOCs unless otherwise noted.
4. The field blank and several samples taken on 2/3/87 for UC 7 contained methylene chloride.
5. The field blank taken on 2/18/88 for UC 14 contained methylene chloride.

4/5/88

SUMMARY OF VOC ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES
TAKEN FROM MONITORING WELLS AT UNIFIRST, WOBURN
MICROGRAMS PER LITER (PARTS PER BILLION)

WELL NO.	DEPTH OF PORT (FEET BELOW GROUND SURFACE)	DATE	ANALYSIS METHOD	TETRACHLORO-ETHENE	TRICHLORO-ETHENE	TRANS 1,2 DICHLORO-ETHENE	1,1,1 TRICHLORO-ETHANE	1,1 DICHLORO-ETHANE	1,1 DICHLORO-ETHENE	TOLUENE	ACETONE	CARBON TETRACHLORIDE
UC4	10-20	12/8/86	601	1532	ND	-	4	-	-	-	-	-
	SCREEN INTERVAL	2/4/87		210	<10	<10	<10	<10	<10	<10	<10	<10
		11/30/87	624	33	ND	ND	ND	ND	ND	ND	ND	ND
UC5	9-19	12/8/86	601	2175	12	-	973	-	-	-	-	-
	SCREEN INTERVAL	12/8/86	601	2576	14	-	1087	-	-	-	-	-
		2/4/87		2000	25	13	1300	<10	11	<10	<10	140
		11/30/87	624	1500	8	ND	620	4.3	5.5	ND	ND	ND
UC6	33-43	12/8/86	601	92	<10	-	<10	-	-	-	-	-
	SCREEN INTERVAL	2/4/87		170	17	<10	<10	<10	<10	<10	<10	<10
		11/30/87	624	43	2.4	ND	ND	ND	ND	ND	ND	ND
		11/30/87	624	97	6.9	ND	ND	ND	ND	ND	ND	ND
UC7-5	15	2/3/87	624	820	100	59	21	11	ND	85	ND	ND
		8/26/87	624	95	4.1	2.3	3	2.2	ND	110	ND	ND
		12/1/87	624	100	5.2	4.8	ND	ND	ND	400	ND	ND
UC7-4	41	2/3/87	624	820	21	56	110	ND	ND	ND	ND	15
		8/26/87	624	3800	99	82	280	140	40	8.7	ND	ND
		12/1/87	624	9400	160	130	600	230	81	9.8	ND	ND
UC7-3	76	2/3/87	624	7600	550	150	140	410	150	78	ND	20
		8/26/87	624	6700	200	85	150	390	71	30	ND	ND
		12/1/87	624	13000	480	330	820	1100	230	53	ND	ND

WELL NO.	DEPTH OF PORT (FEET BELOW GROUND SURFACE)	DATE	ANALYSIS METHOD	TETRACHLORO-ETHENE	TRICHLORO-ETHENE	TRANS 1,2 DICHLORO-ETHENE	1,1,1 TRICHLORO-ETHANE	1,1 DICHLORO-ETHANE	1,1 DICHLORO-ETHENE	TOLUENE	ACETONE	CARBON TETRACHLORIDE
UC7-2	104	2/3/87	624	17000	200	170	1600	320	120	54	ND	230
		8/26/87	624	17000	180	700	1700	380	90	ND	ND	ND
		8/26/87	624	13000	140	600	1400	370	ND	ND	ND	ND
		12/1/87	624	17000	200	390	1400	950	170	58	ND	ND
UC7-1	138	2/3/87	624	7100	110	64	420	25	ND	ND	ND	54
		8/26/87	624	6900	89	170	560	ND	ND	ND	ND	ND
		12/1/87	624	12000	100	200	530	40	ND	53	ND	ND
UC7A-2	104	12/8/86	601	10892	73	-	221	-	-	-	-	-
		12/8/86	601	10498	72	-	202	-	-	-	-	-
UC7A-1	138	12/8/86	601	9682	74	-	197	-	-	-	-	-
UC8	6-21	1/19/88	624	10000	800	330	58	ND	ND	ND	ND	ND
	SCREEN INTERVAL	1/19/88	624	840000	63000	76000	ND	ND	ND	ND	ND	ND
		1/19/88	624	120000	920	930	ND	ND	ND	ND	ND	ND
		1/19/88	624	260000	1600	ND	ND	ND	ND	ND	ND	ND
		1/19/88	624	280000	2000	ND	ND	ND	ND	ND	ND	ND
		1/19/88	624	140000	1200	ND	ND	ND	ND	ND	ND	ND
UC9-6	37	6/15/87	624	ND	ND	ND	ND	ND	ND	ND	ND	ND
		8/26/87	624	ND	ND	ND	ND	ND	ND	ND	ND	ND
		8/26/87	624	ND	ND	ND	ND	ND	ND	ND	ND	ND
		12/1/87	624	ND	ND	ND	ND	ND	ND	17	ND	ND
UC9-5	60	6/15/87	Not sampled because drive-gas leaks in the system prevented sampling.									
		8/26/87	Not sampled because drive-gas leaks in the system prevented sampling.									
		12/1/87	Not sampled because drive-gas leaks in the system prevented sampling.									

WELL NO.	DEPTH OF PORT (FEET BELOW GROUND SURFACE)	DATE	ANALYSIS METHOD	TETRACHLORO-ETHENE	TRICHLORO-ETHENE	TRANS 1,2 DICHLORO-ETHENE	1,1,1 TRICHLORO-ETHANE	1,1 DICHLORO-ETHANE	1,1 DICHLORO-ETHENE	TOLUENE	ACETONE	CARBON TETRACHLORIDE
UC9-4	112	6/15/87	624	2500	ND	ND	ND	ND	ND	ND	ND	ND
		8/26/87	624	1300	ND	24	60	ND	ND	ND	ND	ND
		12/1/87	624	1000	14	23	48	7.9	ND	7.8	ND	ND
UC9-3	149	6/15/87	624	40	ND	ND	ND	ND	ND	6	ND	ND
		8/26/87	624	490	ND	ND	15	ND	ND	18	ND	ND
		12/1/87	624	820	19	33	53	5.6	ND	16	ND	ND
UC9-2	181	6/15/87	624	520	29	ND	ND	ND	ND	ND	ND	ND
		8/26/87	624	300	14	ND	ND	ND	ND	74	ND	ND
		12/1/87	624	280	34	11	2.5	5.1	ND	94	ND	ND
		12/1/87	624	280	24	10	2.2	4.2	ND	95	ND	ND
UC9-1	238	6/15/87	624	7	ND	ND	ND	ND	ND	ND	ND	ND
		8/27/87	624	110	4	3.6	5	ND	ND	ND	ND	ND
UC10-6	93	6/8/87	624	1400	86	48	32	8	ND	16	ND	ND
		6/15/87	624	54	ND	ND	ND	ND	ND	7	72	ND
		8/26/87	624	74	3.8	ND	ND	ND	ND	13	ND	ND
		12/1/87	624	94	3.2	2.5	4.4	ND	ND	4.9	ND	ND
UC10-5	129	6/8/87	624	760	ND	ND	ND	ND	ND	ND	ND	ND
		6/15/87	624	880	40	27	ND	ND	ND	25	ND	ND
		8/26/87	624	290	ND	ND	ND	ND	ND	49	ND	ND
		12/1/87	624	140	10	ND	ND	ND	ND	28	ND	ND
UC10-4	158	6/8/87	624	480	31	24	ND	ND	ND	245	ND	ND
		6/15/87	624	2300	ND	ND	ND	ND	ND	140	ND	ND
		8/26/87	624	5500	130	ND	ND	ND	ND	130	ND	ND
		12/1/87	624	3100	170	65	66	8.5	4.9	68	ND	ND

WELL NO.	DEPTH OF PORT (FEET BELOW GROUND SURFACE)	DATE	ANALYSIS METHOD	TETRACHLORO-ETHENE	TRICHLORO-ETHENE	TRANS 1,2 DICHLORO-ETHENE	1,1,1 TRICHLORO-ETHANE	1,1 DICHLORO-ETHANE	1,1 DICHLORO-ETHENE	TOLUENE	ACETONE	CARBON TETRACHLORIDE
UC10-3	181	6/8/87	Not sampled because drive-gas leaks in the system prevented sampling.									
		6/15/87	624	32	ND	14	ND	ND	ND	7	ND	ND
		8/26/87	624	1600	ND	ND	ND	ND	ND	120	ND	ND
		12/1/87	624	880	130	51	7.7	3.2	ND	91	ND	ND
UC10-2	227	6/8/87	624	570	38	44	24	ND	ND	ND	ND	ND
		6/15/87	624	22	ND	20	ND	ND	ND	6	110	ND
		8/26/87	624	4200	160	93	ND	ND	ND	130	ND	ND
		12/1/87	624	2600	150	100	30	10	5.8	110	ND	ND
UC10-1	243	6/8/87	624	39	8	21	7	ND	ND	6	ND	ND
		6/15/87	624	ND	10	10	ND	ND	ND	5	87	ND
		8/27/87	624	490	87	73	15	8.5	3.3	47	ND	ND
		12/1/87	624	180	28	23	3.6	2.8	ND	35	ND	ND
UC11-6	51	12/21/87	601	700	84	26	22	ND	ND	-	-	ND
UC11-4	172	12/21/87	601	28	12	8.9	ND	3.8	ND	-	-	ND
		12/22/87	601	110	67	42	3.6	28	3.9	-	-	ND
UC11-3	211	12/21/87	601	880	150	41	ND	34	ND	-	-	ND
UC11-2	273	12/21/87	601	340	130	66	28	29	6	-	-	ND
		12/21/87	601	330	120	64	26	28	5.6	-	-	ND
		1/19/88	601	1400	210	ND	18	10	BDL (5)	-	-	ND
		1/19/88	601	1800	340	ND	45	27	16	-	-	ND
UC11-1	335	12/21/87	601	6.3	14	19	ND	8.7	1.1	-	-	ND
		1/19/88	601	59	28	ND	ND	ND	ND	-	-	ND

WELL NO.	DEPTH OF PORT (FEET BELOW GROUND SURFACE)	DATE	ANALYSIS METHOD	TETRACHLORO-ETHENE	TRICHLORO-ETHENE	TRANS 1,2 DICHLORO-ETHENE	1,1,1 TRICHLORO-ETHANE	1,1 DICHLORO-ETHANE	1,1 DICHLORO-ETHENE	TOLUENE	ACETONE	CARBON TETRACHLORIDE
UC12-6	60	12/22/87	601	ND	ND	ND	ND	ND	ND	-	-	ND
UC12-5	92	12/22/87	601	ND	ND	ND	ND	ND	ND	-	-	ND
UC12-4	161	12/22/87	601	ND	ND	ND	ND	ND	ND	-	-	ND
UC12-3	199	12/22/87	601	6.1	5.3	2.3	ND	1.3	ND	-	-	ND
		12/22/87	601	6.8	5.7	2.4	ND	ND	ND	-	-	ND
UC12-2	276	12/22/87	601	ND	ND	ND	ND	ND	ND	-	-	ND
		1/19/88	601	ND	ND	ND	ND	ND	ND	-	-	ND
UC12-1	343	12/22/87	601	ND	ND	ND	ND	ND	ND	-	-	ND
		1/19/88	601	ND	ND	ND	ND	ND	ND	-	-	ND
UC13-4	72	2/3/88	624	ND	36	ND	ND	ND	ND	2.6	ND	ND
UC13-3	114	2/3/88	624	ND	3.7	ND	ND	ND	ND	31	ND	ND
UC13-2	153	2/3/88	624	ND	2.9	ND	ND	ND	ND	3.7	ND	ND
UC13-1	213	2/3/88	624	ND	ND	ND	ND	ND	ND	2	ND	ND
		2/3/88	624	ND	3.2	ND	ND	ND	ND	3.1	ND	ND
UC14-5	98	2/18/88	624	71	3.2	ND	ND	ND	ND	ND	ND	ND
UC14-4	157	2/18/88	624	75	3.5	ND	ND	ND	ND	ND	ND	ND
UC14-3	236	2/18/88	624	9.3	ND	ND	ND	ND	ND	ND	ND	ND
UC14-2	295	2/18/88	624	3	ND	ND	ND	ND	ND	ND	ND	ND
UC14-1	339	2/29/88	624	ND	ND	ND	ND	ND	ND	ND	ND	ND
		2/29/88	624	ND	ND	ND	ND	ND	ND	ND	ND	ND