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June 26, 1987

David Delaney
Water Resources Division
United States Environmental Protection Agency
Region I
JFK Federal Building
Boston, MA 02203

Re: UniFirst Corporation, Woburn, Massachusetts

Dear Dave:

Enclosed is a summary table of analytical results for ground-water samples taken from the recently installed multi-port sampling devices in wells UC9 and UC10. Samples were taken from all of the working ports and analyzed by EPA method 624 for volatile organic compounds. Please let me know if you would also like the laboratory data sheets.

Sincerely,

Jeffrey T. Lawson, P.G.
Senior Program Manager

JTL/cjr

Enclosure

SUMMARY OF
EPA METHOD 624 ANALYTICAL RESULTS
FOR GROUND-WATER SAMPLES

MICROGRAMS PER LITER (Parts Per Billion)

ELL NO.	DEPTH OF PORT[1]	DATE	TETRACHLOROETHENE	TRICHLOROETHENE	TRANS 1,2 DICHLOROETHENE	1,1,1 TRICHLOROETHANE	1,1 DICHLOROETHANE	TOLUENE	ACETONE
C10[2]	N/A	5/27/87	420	12	ND	ND	ND	ND	ND
C10-1	243	6/8/87	39	8	21	7	ND	6	ND
C10-1		6/15/87	ND	ND	10	ND	ND	5	87
C10-2	227	6/8/87	570	38	44	24	ND	ND	ND
C10-2		6/15/87	22	ND	20	ND	ND	6	110
C10-3	181	6/8/87	NOT SAMPLED[3]						
C10-3		6/15/87	32	ND	14	ND	ND	7	ND
C10-4[4]	158	6/8/87	480	31	24	ND	ND	245	ND
C10-4		6/15/87	2300	ND	ND	ND	ND	140	ND
C10-5[4]	129	6/8/87	760	ND	ND	ND	ND	ND	ND
C10-5		6/15/87	880	40	27	ND	ND	25	ND
C10-6	93	6/8/87	1400	86	48	32	8	16	ND
C10-6		6/15/87	54	ND	ND	ND	ND	7	72
C9-1	238	6/15/87	7	ND	ND	ND	ND	ND	ND
C9-2	181	6/15/87	520	29	ND	ND	ND	ND	ND
C9-3	149	6/15/87	40	ND	ND	ND	ND	6	ND
C9-4	112	6/15/87	2500	ND	ND	ND	ND	ND	ND
C9-5	60	6/15/87	NOT SAMPLED[3]						
C9-6	37	6/15/87	ND	ND	ND	ND	ND	ND	ND

Notes:

1. Sampling port depths are given in feet below ground surface. The depths are rounded off to the nearest whole foot.

2. This sample was taken from the completed (total depth 243.5 feet) boring prior to installation of the Solinst device. Sample was taken by bailer through the drill rods from the bottom of the boring after bailing 30 times. This sample and its field blank contained 140 micrograms/liter and 54 micrograms/liter methylene chloride respectively. The shipping blank contained no detectable concentrations of volatile organic compounds.

3. Ports were not sampled because drive gas (Nitrogen) leaks in the system prevented obtaining a sample.

4. Samples from UC10 ports 4 and 5 taken on June 8, 1987 were somewhat frothy. Bubbles could not be eliminated entirely from the sample vials.

5. The field and shipping blanks for the June 8 and 15, 1987 sample contained no detectable concentrations of volatile organic compounds.

6. Sample ports were purged five times, except for the June 15, 1987 samples from UC10. Inadequate drive-gas reserve necessitated that ports UC10 3,4,5 and 6 be purged once, and that ports UC10 1 and 2 not be purged prior to sampling.

7. The detection limits vary substantially among the parameters analyzed for and the samples. Refer to the laboratory data sheets for specific detection limits.

ND - Not Detected

SUMMARY OF VOC ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES
TAKEN FROM SOLINST DEVICES 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	11/30/87	624	33	ND	ND	ND	ND	ND	ND	ND	ND
	SCREEN INTERVAL											
UC5	9-19	11/30/87	624	1500	8	ND	620	4.3	5.5	ND	ND	ND
	SCREEN INTERVAL											
UC6	33-43	11/30/87	624	43	2.4	ND	ND	ND	ND	ND	ND	ND
	SCREEN INTERVAL	11/30/87	624	97	6.9	ND	ND	ND	ND	ND	ND	ND
UC7-5	15	2/3/87	624	320	100	59	21	11	ND	65	ND	ND
		8/26/87	624	95	4.1	2.1	3	2.2	ND	110	ND	ND
		12/1/87	624	100	5.2	4.0	ND	ND	ND	400	ND	ND
UC7-4	41	2/3/87	624	880	21	55	110	ND	ND	ND	ND	15
		8/26/87	624	2300	99	32	230	140	40	6.7	ND	ND
		12/1/87	624	3400	160	120	600	230	21	9.8	ND	ND
UC7-3	75	2/3/87	624	7300	550	150	140	410	150	76	ND	23
		8/26/87	624	6700	310	82	150	350	71	50	ND	ND
		12/1/87	624	10000	480	320	320	1100	120	53	ND	ND
UC7-2	104	2/3/87	624	17000	300	177	1300	380	120	64	ND	330
		8/26/87	624	17000	190	700	1700	230	50	ND	ND	ND
		8/26/87	624	12000	140	600	1400	370	ND	ND	ND	ND
		12/1/87	624	17000	300	390	1400	550	170	53	ND	ND
UC7-1	128	2/3/87	624	7100	110	64	420	25	ND	ND	ND	24
		8/26/87	624	5300	69	170	550	ND	ND	ND	ND	ND
		12/1/87	624	12000	100	200	530	40	ND	53	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.									
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	46	7.9	ND	7.3	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	15	ND	ND
		12/1/87	624	820	19	33	53	5.6	ND	16	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
UC9-2	181	6/15/87	624	520	23	ND	ND	ND	ND	ND	ND	ND
		8/26/87	624	300	14	ND	ND	ND	ND	74	ND	ND
		12/1/87	624	260	24	11	2.5	5.1	ND	54	ND	ND
		12/1/87	624	280	24	10	2.2	4.2	ND	55	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	66	48	32	8	ND	15	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	54	3.2	2.5	4.4	ND	ND	4.5	ND	ND
UC10-5	129	6/8/87	624	760	ND	ND	ND	ND	ND	ND	ND	ND
		6/15/87	624	680	40	27	ND	ND	ND	25	ND	ND
		8/26/87	624	250	ND	ND	ND	ND	ND	49	ND	ND
		12/1/87	624	140	10	ND	ND	ND	ND	23	ND	ND
UC10-4	153	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	6.5	4.5	63	ND	ND
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	17	ND	ND
		8/25/87	624	1600	ND	ND	ND	ND	ND	120	ND	ND
		12/1/87	624	880	120	51	7.7	3.2	ND	91	ND	ND
UC10-2	227	6/8/87	624	570	33	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	150	33	ND	ND	ND	130	ND	ND
		12/1/87	624	2500	150	100	30	10	5.8	110	ND	ND
UC10-1	243	6/3/87	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	450	37	73	15	8.5	3.3	47	ND	ND
		12/1/87	624	130	28	23	3.6	2.3	ND	35	ND	ND
UC11-6	51	12/21/87	601	700	64	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	23	6	-	-	ND
		12/21/87	601	330	120	64	25	28	5.6	-	-	ND
UC11-1	335	12/21/87	601	6.3	14	19	ND	8.7	1.1	-	-	ND
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

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
UC12-4	151	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
UC12-1	343	12/22/87	601	ND	ND	ND	ND	ND	ND	-	-	ND

NOTES:

1. ND = Not detected
   - = Not reported
2. The field and shipping blanks for 6/6/87, 6/15/87, 8/26/87, and 8/27/87 contained no detectable concentrations of VOCs. The field blank and several samples taken on 2/3/87 contained methylene chloride. The shipping blank prepared on 2/2/87 and that accompanying the 2/3/87 sample vials contained no detectable concentrations of VOCs.
3. The detection limits vary substantially among the parameters analyzed for and the samples. Refer to the laboratory data sheets for specific detection limits.
4. The field and shipping blanks for 12/1/87, 12/21/87, and 12/22/87 contained no detectable concentrations of VOCs.