

August 30, 2004

de maximis, inc.

200 Day Hill Road, Suite 200
Windsor, Connecticut 06095

Attention: John Hunt

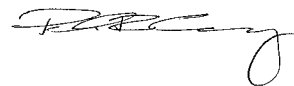
Subject: June 2004 Semiannual Groundwater Sampling Results
NMI Site, Concord, Massachusetts

Dear John:

GeoSyntec Consultants is pleased to provide you with the groundwater monitoring data from the June 2004 semiannual sampling round. Table 1 provides a summary of analytes detected during the February and June sampling rounds. Table 2 lists the results of the radionuclide analysis of the hydrant sample, and Table 3 provides a summary of the isotopic and total uranium results for the groundwater samples.

If you have any questions regarding this summary, please do not hesitate to contact either of the undersigned at (978) 263-9588.

Sincerely,



Paula R. Chang, M.S.E.
Project Engineer



Douglas G. Larson, Ph.D., P.E.
Associate

Attachments

Table 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 June 2004 Radionuclides in Hydrant Sample
 NMI Site, Concord, MA

Method Group	Parameter	Units	Hydrant-06092004
Radionuclides via EPA Method 901.1			
	Actinium-228	pCi/l	4.46/U
	Americium-241	pCi/l	6.99/U
	Antimony-124	pCi/l	-1.03/U
	Antimony-125	pCi/l	1.83/U
	Barium-133	pCi/l	-1.1/U
	Barium-140	pCi/l	1.26/U
	Beryllium-7	pCi/l	-7.01/U
	Bismuth-212	pCi/l	-4.81/U
	Bismuth-214	pCi/l	0/U
	Cerium-139	pCi/l	-0.764/U
	Cerium-141	pCi/l	1.75/U
	Cerium-144	pCi/l	0.538/U
	Cesium-134	pCi/l	0.838/U
	Cesium-136	pCi/l	-1.56/U
	Cesium-137	pCi/l	1.6/U
	Chromium-51	pCi/l	2.55/U
	Cobalt-56	pCi/l	1.05/U
	Cobalt-57	pCi/l	0.151/U
	Cobalt-58	pCi/l	0.26/U
	Cobalt-60	pCi/l	-1.07/U
	Europium-152	pCi/l	3.28/U
	Europium-154	pCi/l	4.47/U
	Europium-155	pCi/l	0.865/U
	Iridium-192	pCi/l	1.39/U
	Iron-59	pCi/l	1.53/U
	Lead-210	pCi/l	286/U
	Lead-212	pCi/l	4.01/U
	Lead-214	pCi/l	16.3/
	Manganese-54	pCi/l	0.237/U
	Mercury-203	pCi/l	0.688/U
	Neodymium-147	pCi/l	-3.59/U
	Neptunium-239	pCi/l	1.75/U
	Niobium-94	pCi/l	0.151/U
	Niobium-95	pCi/l	0.481/U
	Potassium-40	pCi/l	18.3/U
	Promethium-144	pCi/l	0.417/U
	Promethium-146	pCi/l	2.65/U
	Radium-226	pCi/l	22.2/
	Radium-228	pCi/l	4.46/U
	Ruthenium-106	pCi/l	-0.405/U
	Silver-110m	pCi/l	-1.13/U
	Sodium-22	pCi/l	1.61/U
	Thallium-208	pCi/l	2.27/U
	Thorium-230	pCi/l	22.2/
	Thorium-232	pCi/l	3.94/U
	Thorium-234	pCi/l	69/U
	Tin-113	pCi/l	-0.552/U
	U-235	pCi/l	-5.45/U
	U-238	pCi/l	69/U
	Yttrium-88	pCi/l	-0.162/U
	Zinc-65	pCi/l	-3.09/U
	Zirconium-95	pCi/l	1.07/U
Thorium via DOE EML HASL-300, "Th-01-RC Modified"			
	Thorium-228	pCi/l	0.0109/U
	Thorium-230	pCi/l	0.173/U
	Thorium-232	pCi/l	-0.00593/U

Notes: "J"—Compound detected below method quantitation limit, estimated value provided.
 "B"—Compound detected in Laboratory blank analysis.
 "U"—Compound not detected above method quantitation limit, quantitation limit provided.
 "H"—Analytical holding time exceeded
 "E" = Indicates compounds whose concentrations exceed the calibration range of the instrument
 Department of Energy (DOE) Environmental Measurement Laboratory (EML) Health and Safety Laboratory (HASL)

Highlighted cells indicate negative detections reported by the laboratory (i.e., detections below background).
 GeoSyntec collected the groundwater samples on February 24 and 25, 2004. Laboratory analyses were performed by General Engineering Laboratories of Columbia, South Carolina.

Table 3
Summary of Uranium Concentrations Detected in Groundwater Samples
February and June 2004 Sampling Round
NMI Site, Concord, MA

Sample Location	U ²³⁴ µg/L Feb-04	U ²³⁴ µg/L Jun-04	U ²³⁵ µg/L Feb-04	U ²³⁵ µg/L Jun-04	U ²³⁸ µg/L Feb-04	U ²³⁸ µg/L Jun-04	Total U µg/L Feb-04	Total U µg/L Jun-04	Total U (ICP) µg/L Feb-04	U ²³⁸ /U ²³⁵ Ratio Feb-04	U ²³⁸ /U ²³⁵ Ratio Jun-04	U ²³⁸ % Feb-04	U ²³⁸ % Jun-04	U ²³⁵ % Feb-04	U ²³⁵ % 4-Jun
GZW-10	0.00513	0.00506	0.565	1.285	62.20	71.43	62.77	72.72		110.01	56.13	99.09	98.226	0.90	1.75
GZW-10-DUPp	0.00469		0.500		57.14		57.65			114.29		99.12		0.87	
GZW-6-3	0.00482		0.687		69.05		69.74	67.7		100.52		99.01		0.98	
GZW-7-1	0.00087	0.00084	0.461	0.738	126.19	136.61	126.65	137.35		273.60	186.96	99.64	99.462	0.36	0.53
GZW-7-1-DUP		0.00108		0.818		129.76		130.58			160.28		99.373		0.62
GZW-7S	0.00081	0.00081	0.345	0.743	113.69	108.93	114.04	109.67		329.23	148.02	99.70	99.322	0.30	0.67
HB-10	0.00001	0.00002	-0.016	0.039	0.17	0.32	0.15	0.36		-	8.42	110.42	89.270	-	10.60
HB-10S	0.00002	0.00013	-0.021	0.057	1.09	2.32	1.07	2.38		-	40.66	101.95	97.576	-	2.40
HB-12	0.04132	0.01350	24.393	6.729	5892.86	1886.905	5917.29	1893.65		241.58	283.08	99.59	99.644	0.41	0.35
HB-12-HYDRASL		0.01161		6.075		1633.93		1640.01			271.47		99.629		0.37
HB-7	0.00063	0.00049	0.221	0.228	86.90	77.68	87.13	77.91		394.02	343.82	99.75	99.707	0.25	0.29
HBPZ-2R	0.01833	0.01569	8.084	11.028	2880.95	2473.21	2889.05	2484.26		356.37	226.26	99.72	99.555	0.28	0.44
ML-1-3		0.00066		0.175		11.46		11.63			66.10		98.488		1.49
HYDRANT		0.00003		0.075				0.07			0.00		0.000		41.00
MW-8A	0.00294	0.00537	1.411	6.776	422.62	601.19	424.03	607.97	534	299.47	89.90	99.67	98.885	0.33	1.10

Notes:

1. Natural uranium is roughly 0.7% U²³⁵, and the U²³⁸/U²³⁵ ratio is approximately 130 to 180.
2. Depleted uranium is roughly 0.2% U²³⁵, and the U²³⁸/U²³⁵ ratio is approximately 400 to 500.
3. GZW-10 and GZW-6-3 are both bedrock wells; the others are overburden wells.
4. Highlighted cells indicate negative detection of U-235 (picoCuries per Liter [pCi/L]) reported by the laboratory (i.e., detections below background)
5. Negative U-235 detection are indicated by dashes in the U-235 ratio and percentage columns.
6. GZW-6-3 was not sampled in June 2004 due to damage to the Barcad equipment.

µg/L - micrograms per liter

U - uranium

ICP - inductively coupled plasma

HYDRSL - hydrasleeve sampling device

DUP - duplicate sample