

*RA 6/04*

June 10, 1994  
File No. 1049

Ms. Karlee Kenison  
Groundwater Permits Coordinator  
New Hampshire Department of Environmental Services  
Water Supply and Pollution Control Division  
Groundwater Protection Bureau  
P.O. Box 95, 6 Hazen Drive  
Concord, NH 03302-0095



Re: Groundwater Permit GWP-870433-8-001  
Consumat-Sanco, Inc. Landfill  
Bethlehem, New Hampshire

STANDARD FILES  
TOWN: Bethlehem  
PROJECT: Consumat - Sanco  
Stage II  
Correspondence/Data/Permit

Dear Ms. Kenison:

On behalf of Consumat Sanco, Inc. (Consumat Sanco), Sanborn, Head & Associates, Inc. (SHA) has prepared this request to modify Groundwater Permit No. GWP-87-0433-8-001 for the Consumat Sanco Landfill in Bethlehem, New Hampshire. The purpose of the requested modification is to obtain approval to decommission two monitoring well couplets, B-405U & L and B-406U & L, which will be required as part of the development of Stage II of the Consumat Sanco landfill.

Stage II received permits from NHDES in April 1989 (Solid Waste Permit DES-SW-89-009). Stage II is located to the east of Stage I in the area where the unlined landfill was located. The Stage II footprint area is 7 acres and will be developed in two phases. The development of Stage II will include construction of liner and leachate collection systems in the Stage II base area and placement of refuse over the newly constructed area as well as over the top of Stage I.

The first work completed toward development of Stage II involved relocation of refuse from the unlined landfill area to Stage I. Section 4 of the Stage II Solid Waste Permit outlined preconstruction requirements relating to removal of refuse. Development of Stage II in this manner provides a mechanism to eliminate the source of groundwater contamination at the site. Relocation of the refuse into Stage I was completed in early October 1993. Following relocation, SHA completed an assessment of soil conditions. The analytical data gathered during SHA's study did not indicate the presence of residual VOC contamination in the soils in the relocation area. SHA recommended that the site be stabilized by being graded to contain runoff within the disturbed area and vegetated in the spring of 1994. In a letter dated December 9, 1993, NHDES concurred with recommendations in SHA's report.

Following completion of the relocation, construction plans and a design report entitled "Consumat Sanco Landfill - Stage II, Bethlehem, New Hampshire" were prepared by SHA in February 1994 and provided to NHDES together with a revised facility operating plan prepared by Consumat Sanco. One of NHDES' review comments required that a formal request to modify the Groundwater Permit be made. The requested modification is described below. Additional documentation relative to the design and operation of the facility, prepared in response to NHDES' review comments, was submitted in a June 10, 1994 letter to NHDES.

Groundwater quality has been monitored at the facility since September 1984. Tables 1 through 21 summarize groundwater quality monitoring results; these tables have been provided in accordance with Env-W's 410.28. Under the proposed Permit modification, groundwater quality at the facility will continue to be monitored at the schedule and for the parameters required under the current Groundwater Permit, with the exception that wells B-405 U&L and B-406 U&L will be decommissioned. The current groundwater monitoring program includes sampling wells B-101, B-102S, B-102D, B-103S, B-103D, B-401, B-402U & L, B-403U & L, B-404U & L, B-405U & L, and B-406U & L. Well B-401 is upgradient of the facility. The remainder of the wells are downgradient. The locations of these wells are shown on Figure 1. Wells B-405U & L and B-406U & L are located to the northeast of Stage I within the footprint area of Phase I of Stage II. The remaining wells are located downgradient of the permitted footprint of the (Stage I and Stage II) facility and provide sufficient locations to monitor the facility in its entirety.

Following NHDES approval, the wells will be decommissioned by filling the PVC well pipe with grout and then cutting the well pipe at a depth 5 feet below the screened till base layer. The excavation created to cut the pipe will be backfilled with screened till placed in lifts not exceeding 12 inches thick and compacted to a density at least 95 percent of the maximum density as determined by ASTM D-698. Per condition 5.1.3 of the Solid Waste Permit, documentation of the decommissioning will be provided to WMD prior to requesting authorization to commence construction of Phase I. A copy of the documentation will also be provided to WSPCD.

We thank you for your attention to this permit modification request. Should you have any questions or if we can provide you with additional information, please do not hesitate to call us.

Very truly yours,  
SANBORN, HEAD & ASSOCIATES, INC.



R. Scott Shillaber, P.E.  
Principal



Paul M. Sanborn  
President/Principal

RSS:ljm  
Enc.

cc: v Pamela Sprague, WMD  
Larry B. Lackey, Consumat Sanco, Inc.  
James Bohlig, Casella Waste Management  
Robert Massey, Consumat Sanco, Inc.

Attachments: Tables 1-21  
Figure 1

Water Quality Summary Table 1

Water Level - Depth and Elevation (ft)

Round No.	Sampling Date	B 101 Elevation		B 102 Elevation		B 102S Elevation		B 103 Elevation		B 103D Elevation		B 104 Elevation		B 401 Elevation		B 402L Elevation	
		Casing (C) PVC (P) GS	Water Depth Ref Elevation	Casing (C) PVC (P) GS	Water Depth Ref Elevation	Casing (C) PVC (P) GS	Water Depth Ref Elevation	Casing (C) PVC (P) GS	Water Depth Ref Elevation	Casing (C) PVC (P) GS	Water Depth Ref Elevation	Casing (C) PVC (P) GS	Water Depth Ref Elevation	Casing (C) PVC (P) GS	Water Depth Ref Elevation	Casing (C) PVC (P) GS	Water Depth Ref Elevation
1	09 18 84																
2	09 27 84																
3	02 15 85																
4	06 24 85																
5	09 13 85																
6	02 06 86																
7	06 05 86																
8	11 15 86																
9	03 03 87																
10	06 11 87	52.8 C	1298.0	34.0 C	1302.0	38.4 C	1300.0	37.4 C	1292.2	38.6 C	1291.4	23.1 C	1307.0				
11	09 21 87	53.8 P	1297.0	34.4 C	1301.6	38.8 C	1299.6	37.5 C	1292.1	38.9 C	1291.1			36.9 C	1309.2	16.0 C	1306.8
12	12 29 87	53.0 C	1297.8	34.2 C	1301.8	38.7 C	1299.7	37.4 C	1292.2	38.8 C	1291.2			37.0 C	1309.1	17.9 C	1304.9
13	03 29 88	53.1 P	1297.7	34.5 C	1301.5	38.9 C	1299.5	37.8 C	1291.8	39.0 C	1291.0						
14	07 13 88	52.9 P	1297.9	34.2 P	1300.7	39.4 P	1298.9	37.1 P	1292.0	37.5 P	1292.0			36.7 P	1309.4	19.4 P	1303.4
15	10 17 88	53.2 P	1297.6	37.1 P	1301.8	39.0 C	1299.4	37.9 C	1291.7	39.0 C	1291.0			37.2 C	1308.9	19.9 P	1302.9
16	12 20 88	53.4 P	1297.4			39.1 P	1299.2	37.6 P	1291.5	38.7 P	1290.8			37.5 P	1308.6	19.5 P	1303.3
17	04 26 89	53.1 P	1297.7			38.9 P	1299.4	37.0 P	1292.1	38.5 P	1291.0			38.1 P	1308.0	20.6 P	1302.2
18	07 27 89	53.8 P	1297.0			39.7 P	1298.6	38.0 P	1291.1	39.0 P	1290.5			37.7 P	1308.4	19.7 P	1303.1
19	10 26 89	54.1 P	1296.7	37.9 P	1301.0	39.8 P	1298.5	38.3 P	1290.8	39.3 P	1290.2			38.0 P	1308.1	13.2 P	1309.6
20	02 06 90	54.0 P	1296.8	38.0 P	1300.9	39.8 P	1298.4	38.1 P	1291.1	39.2 P	1290.3			38.0 P	1308.1	19.4 P	1303.4
21	05 23 90	53.6 P	1297.2	37.6 P	1301.3	39.6 C	1298.8	38.2 C	1291.4	39.3 C	1290.7			37.6 P	1308.6	18.2 P	1304.6
22	08 29 90	53.0 C	1297.8	37.0 P	1301.9	DRY		37.3 C	1292.3	38.6 C	1291.4			37.1 C	1309.0	18.0 P	1304.8
23	12 03 90	52.0 P	1298.8	36.4 P	1302.5	36.3 P	1302.0	36.4 P	1292.7	37.3 P	1292.2			44.3 P	1301.8	17.3 P	1305.5
24	02 28 91	51.8 C	1299.0	37.8 C	1298.2	35.9 C	1302.5	36.6 C	1293.0	37.6 C	1292.4			36.0 C	1310.1	18.7 C	1304.1
25	07 08 91	51.3 P	1299.5	35.2 P	1303.7	36.9 P	1301.4	35.5 P	1293.6	36.7 P	1292.8			35.3 P	1310.8	20.8 P	1302.0
26	09 09 91	51.4 P	1299.4	35.4 P	1303.5	37.1 P	1301.2	35.9 C	1293.7	37.2 C	1292.8			36.2 P	1309.9	18.5 P	1304.3
27	01 02 92	51.7 P	1299.1	35.8 P	1303.1	37.4 P	1300.9	36.4 C	1293.2	37.6 C	1292.4			36.6 C	1309.5	17.9 C	1304.9
28	04 10 92	51.1 P	1299.7	35.6 P	1303.3	36.8 P	1301.5	35.1 P	1294.0	36.5 P	1293.0					19.3 P	1303.5
29	05 26 92																
30	07 08 92	51.5 C	1299.3	35.6 P	1303.3	37.2 P	1301.1	35.8 P	1293.3	37.4 C	1292.6			36.4 C	1309.7	19.8 P	1303.0
31	10 07 92	52.3 P	1298.5	36.3 P	1302.7	37.9 P	1300.4	36.5 P	1292.6	38.1 C	1291.9			37.3 C	1308.8	20.0 P	1302.9
32	04 15 93	52.8 P	1298.0	36.6 P	1303.3	38.1 P	1300.2	36.6 P	1292.5	37.8 P	1291.7			37.7 P	1308.4	21.4 P	1301.4
33	07 15 93																
34	11 24 93	53.9 P	1298.9	37.7 P	1301.2	39.5 P	1298.7	38.5 C	1291.0	39.5 C	1290.5			38.4 C	1307.7	20.6 P	1312.2
35	04 13 94	51.4 P	1299.4	36.4 P	1302.5	38.9 P	1299.4	36.5 C	1293.1	37.8 C	1292.2			38.4 C	1307.7	17.0 P	1315.8
Maximum		54.1	1299.7	38.2	1303.7	39.8	1302.6	38.5	1284.0	39.5	1293.0	23.1	1307.0	44.3	1310.8	21.4	1318.8
Average		52.7	1298.1	36.3	1302.0	38.4	1300.0	37.1	1292.3	38.2	1291.5	23.1	1307.0	37.5	1308.6	18.8	1304.9
Minimum		51.1	1298.7	34.0	1298.2	35.9	1298.4	35.1	1290.8	36.5	1290.3	22.1	1307.0	35.3	1307.6	13.2	1301.4
Range (Max to Min)		3.0	1.0	4.2	5.5	3.9	4.2	3.4	8.2	3.0	0.6	1.0	9.8	9.0	7.6	8.2	7.4
Standard Deviation		0.8	0.8	1.7	1.7	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire. Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.



Round No.	Sampling Date	Water Depth	Elevation	
			Case	GS
1	03 18 84		1336.6	1335.3
2	09 27 84		1336.4	
3	02 15 85			
4	06 24 85			
5	09 13 85			
6	02 06 86			
7	06 05 86			
8	11 15 86			
9	03 03 87			
10	06 11 87			
11	09 21 87	32.3	1304.3	
12	12 29 87	33.0	1303.6	
13	03 29 88	33.4	1303.2	
14	07 13 88	32.6	1303.8	
15	10 17 88	33.2	1303.4	
16	12 20 88	33.3	1303.1	
17	04 26 89	33.7	1302.7	
18	07 27 89	33.5	1302.9	
19	10 26 89	33.8	1302.6	
20	02 06 90	33.9	1302.5	
21	05 23 90	33.6	1303.0	
22	08 29 90	33.0	1303.6	
23	12 03 90	32.4	1304.0	
24	02 28 91	32.1	1304.5	
25	07 08 91	32.3	1304.1	
26	09 09 91	32.1	1304.5	
27	01 02 92	32.3	1304.3	
28	04 10 92	32.4	1304.2	
29	05 26 92			
30	07 08 92	32.0	1304.5	
31	10 07 92	32.5	1303.9	
32	04 15 93	35.6	1300.8	
33	07 15 93			
34	11 24 93	33.9	1302.7	
35	04 13 94	33.2	1303.4	
Maximum		35.6	1304.5	
Average		33.0	1303.5	
Minimum		32.0	1300.8	
Range (Max. to Min)		3.6		
Standard Deviation		0.5		

Round No.	Sampling Date	B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	SEEP
1	09-18-84	6.3	6.3	-	6.6	-	6.9	-	-	-	-	-	-	-	-	-	-	-	6.7
2	09-27-84	6.2	6.5	-	6.6	-	7.1	-	-	-	-	-	-	-	-	-	-	-	6.6
3	02-15-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	06-24-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	09-13-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	02-06-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	06-05-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8
8	11-15-86	6.2	6.5	-	6.4	-	6	-	-	-	-	-	-	-	-	-	-	-	6.5
9	03-03-87	6.6	6.4	6.4	6.7	6.6	7	-	-	-	-	-	-	-	-	-	-	-	6.8
10	06-11-87	6.6	6.8	6.8	6.6	6.7	7	-	-	-	-	-	-	-	-	-	-	-	-
11	09-21-87	6.2	6	6	6.3	5.9	-	5.8	6.4	6.2	6.3	5.7	6.3	6.3	5.7	6.4	5.6	5.3	6.5
12	12-29-87	6.4	6.5	6.1	6.5	6.6	-	5.6	5.7	5.4	5.7	6.1	6.4	6.6	5.7	6.7	5.5	6	5.7
13	03-29-88	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	7.1	-	-	-
14	07-13-88	6.8	6.5	6.4	6.7	6.8	-	6.5	6.4	6.4	6.5	6.9	6.8	6.7	5.4	6.2	5.9	6.7	6.7
15	10-17-88	6.6	6.6	6.6	6.6	6.6	-	7.3	6.6	6.2	6.5	6.3	7.1	7.1	6.5	6.8	6.8	7.2	6.4
16	12-20-88	6.9	-	6.6	6.8	6.9	-	6	6.6	6.7	5.8	6.6	6.8	7.1	6.1	7	6.1	7.2	6.7
17	04-26-89	6.6	-	6.3	6.5	6.6	-	6.5	6.5	6.4	6.2	6.4	6	6.4	6.3	6.4	6	6.3	6.2
18	07-27-89	6.4	-	5.9	6.4	6.6	-	6.1	6	6.1	5.5	6.1	6.3	6.5	5.2	6.1	5.2	6.2	6
19	10-26-89	6.8	6.6	6	6.6	6.7	-	6.1	6.5	6.7	5.8	6.1	5.7	6.5	6.7	6.7	5.8	6.7	6.4
20	02-06-90	7.2	6.7	7	7	7.2	-	6.5	6.8	6.4	6.5	6.7	6.9	7	6.5	7.1	6.3	7	6.5
21	05-23-90	6.9	7	6.5	6.6	6.9	-	7.5	8.5	8.3	9.1	8.5	7.2	7.1	7.1	6.8	6.3	6.8	7
22	08-29-90	7.8	7.8	-	7.7	8.0	-	8.4	7.9	8.0	8.7	8.2	5.6	8.0	7.1	8.6	7.7	8.8	8.1
23	12-03-90	6.2	6.7	6.1	6.1	6.3	-	5.7	8.6	6.7	6.7	6.8	8.2	6.9	7.1	7.1	5.6	7.5	6.1
24	02-28-91	6.3	6.0	6.7	7.2	6.2	-	6.9	6.2	6.8	7.3	7.5	7.5	6.1	6.8	6.0	6.8	6.1	7.5
25	07-08-91	6.3	6.6	6.3	6.2	6.3	-	6.2	6.2	6.3	6.2	6.2	7.0	6.3	5.9	6.6	5.4	6.4	6.2
26	09-09-91	6.6	6.8	6.5	6.4	6.5	-	6.5	6.3	6.2	6.2	6.4	8.5	6.5	6.6	6.3	6.6	6.4	6.8
27	01-02-92	6.7	6.4	6.1	6.4	6.2	-	6.3	5.7	6.5	5.8	6.5	6.2	5.8	5.6	6.1	6.2	5.1	6.3
28	04-10-92	6.5	6.4	6.3	6.4	6.6	-	6.2	6.3	6.0	5.9	6.0	6.7	6.6	6.9	6.7	-	6.9	6.6
29	05-26-92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	07-08-92	6.9	6.5	6.7	6.6	6.6	-	6.2	6.2	6	6.3	6.4	7.2	6.8	7.1	6.6	6.4	6.5	6.6
31	10-07-92	5.8	5.9	6.2	6	6.6	-	6.4	6.1	7.3	5.6	6.2	6.1	6.3	6.1	5.4	6.1	5.8	6.7
32	04-15-93	6.6	6.6	6.6	6.5	6.6	-	6.1	8.2	8.5	6.7	6.6	6.8	6.7	6.1	6.5	6.2	8.3	6.7
33	07-15-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	11-24-93	7.2	7.1	7.2	7.2	7.1	-	7.7	7.5	7.8	6.7	7.3	7.1	7	6.9	6.5	6.4	7	7.2
35	04-13-94	6.6	6.5	6.9	6.5	6.8	-	7.2	7.1	6.5	6.5	6.6	6.4	6.5	5.7	6.8	5.8	6.6	6.7

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire.

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA

- Indicates no testing performed

Indicates an upgradient sampling location.

Round No.	Sampling Date	Groundwater B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	Surf	
1	09-18-84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	09-27-84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	02-15-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	06-24-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	09-13-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	02-06-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	06-05-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	11-15-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	03-03-87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	06-11-87	300	435	175	440	440	40	-	-	-	-	-	-	-	-	-	-	-	-	80
11	09-21-87	320	343	122	400	330	-	43	60	50	92	90	100	55	91	290	73	180	90	90
12	12-29-87	400	460	340	570	480	-	58	60	60	42	55	75	65	60	80	60	95	90	90
13	03-29-88	-	-	-	-	-	-	-	-	-	-	-	-	-	58	75	-	-	-	-
14	07-13-88	641	644	654	886	738	-	81	78	76	48	68	72	76	75	74	39	85	116	116
15	10-17-88	730	700	410	998	704	-	86	91	93	78	73	92	102	67	82	98	100	132	132
16	12-20-88	775	-	405	958	708	-	48	74	72	50	65	62	82	53	70	65	79	640	640
17	04-26-89	724	-	344	837	675	-	40	68	81	44	62	55	74	52	70	63	73	166	166
18	07-27-89	880	-	311	968	718	-	41	72	74	70	122	58	-	-	71	90	76	146	146
19	10-26-89	841	907	214	939	695	-	38	78	70	48	63	56	75	53	73	78	75	139	139
20	02-06-90	920	840	309	1002	658	-	45	79	79	49	68	60	78	57	72	89	78	57	57
21	05-23-90	958	854	345	931	732	-	39	83	76	48	63	61	70	52	68	76	75	268	268
22	08-29-90	723	1009	-	950	712	-	40	75	68	47	65	64	73	115	80	73	89	253	253
23	12-03-90	540	1009	348	947	702	-	42	84	82	50	70	62	76	69	80	67	78	264	264
24	02-28-91	648	930	415	960	642	-	60	100	80	52	76	58	90	61	98	60	78	128	128
25	07-08-91	690	730	390	720	560	-	51	81	90	51	70	63	75	47	80	57	110	156	156
26	09-09-91	980	1050	620	930	699	-	42	85	78	50	73	62	73	49	71	45	74	68	68
27	01-02-92	1006	1061	451	1061	1103	-	45	100	84	60	80	62	121	55	67	25	56	248	248
28	04-10-92	934	823	182	798	664	-	42	99	86	60	80	62	77	51	74	-	81	317	317
29	05-26-92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	07-08-92	1009	957	585	855	750	-	47	100	76	61	80	61	73	49	75	52	74	176	176
31	10-07-92	1120	47	74	950	615	-	58	119	92	77	92	68	79	50	71	67	79	-	-
32	04-15-93	749	1106	264	696	629	-	45	106	90	79	93	77	79	71	84	62	97	111	111
33	07-15-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	11-24-93	1132	1198	553	1210	1116	-	44	142	114	79	87	79	75	58	73	93	82	355	355
35	04-13-94	1288	2040	292	1920	1123	-	54	224	114	85	83	102	79	64	95	105	74	675	675

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire.

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.

- Indicates no testing performed.

Indicates an upgradient sampling location.

Round No.	Sampling Date	B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	Seep	
1	09-18-84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	09-27-84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	02-15-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	06-24-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	09-13-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	02-06-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	06-05-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	11-15-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	03-03-87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	06-11-87	10	12.1	9.3	8.3	9.5	7.3	-	-	-	-	-	-	-	-	-	-	-	-	13.3
11	09-21-87	11	8.5	7.7	8.4	8.5	-	11.6	13	12.8	7.5	8.7	10.8	10.7	8.7	9	8.1	7.8	9	9
12	12-29-87	0.7	1.2	1.3	2.2	2	-	4.5	2.9	1.8	4.1	4.5	4.5	3.3	5	2.7	7.7	6.2	0.5	0.5
13	03-29-88	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5	12.7	-	-	-	-
14	07-13-88	18.6	19.1	13.7	15.7	17	-	17	12.7	12.2	16.8	16.4	17.7	19	20.3	19.2	19.3	17.2	15.9	15.9
15	10-17-88	9.7	10.9	10.5	11.7	11.7	-	10.1	15	10.3	9.3	13	11.2	11	9.9	10.5	11.2	8.7	10.9	10.9
16	12-20-88	8.7	-	8.2	8.1	8.4	-	9.5	7.7	8.2	7.9	9	8.6	10.7	9.4	7.2	8.5	7.3	7.7	7.7
17	04-26-89	8.6	-	8.2	8.8	8.6	-	6	9.8	12.1	10.7	11.6	9.1	7.7	11.9	11.3	10.5	7.7	7.4	7.4
18	07-27-89	18.6	-	15.5	14	11.8	-	9.2	11.2	14.7	19.2	12.3	16.3	12.2	10.1	10	15.4	14.5	13.8	13.8
19	10-26-89	9	9.6	9.3	10.2	10.5	-	10.7	11.2	10.1	9.6	8.1	7.4	10.3	8.2	7.7	9.2	10.4	7.6	7.6
20	02-06-90	4.2	7.7	6	6.2	5.5	-	6.1	5.3	4.7	3.6	5.3	4.4	4.1	4.7	4.4	5.7	5.3	4.7	4.7
21	05-23-90	9	12.9	11.9	11.6	10.6	-	9	10.3	9.3	7.7	8.3	9.2	6.9	9.6	7.7	9.3	7.6	7.3	7.3
22	08-29-90	15.3	16.2	-	11.1	13.5	-	10.5	16.6	15.3	14	13.5	23.7	15.5	15.1	10.5	14	10.8	16	16
23	12-03-90	5.7	3.8	4.8	6.1	6	-	3	3.5	2.9	7	3.2	3.8	3.9	3.9	5.6	6.8	7.8	16	16
24	02-28-91	8.2	6.7	8.7	5	8.3	-	7.2	9.5	7.6	7.5	7.2	7.3	9.6	3.9	8.7	3.7	7.8	7.4	7.4
25	07-08-91	11	11	12.5	11.2	11.3	-	11.1	10.1	11.9	13.8	12.6	13.9	10	13	14.9	12.6	13.2	-	-
26	09-09-91	12	15.3	13.1	14.6	11.3	-	11.3	15.2	9	13.7	18.9	10.4	12.8	16.5	13.7	13	12.1	19.8	19.8
27	01-02-92	5.6	6.4	5.7	5.9	5.4	-	1.6	6.9	3.2	5.9	5.2	3.2	5.9	5.9	4.7	2.2	1.8	2.6	2.6
28	04-10-92	12.8	16.4	15.7	12.8	14	-	9.2	9.9	8.8	9.5	5.8	9.6	10.8	8.4	10	-	10.1	14	14
29	05-29-92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	07-08-92	14.2	12.7	15.7	-	-	-	14.6	13.1	11.5	13	13.5	15.4	13.7	13.1	15.3	12.3	14.5	13.4	13.4
31	10-07-92	11.4	12.1	13.5	12.3	12	-	6.3	6.1	8.1	9.1	8.5	11.1	11	15.5	11.1	13.1	13.8	-	-
32	04-15-93	13.4	9	9.6	12.4	9.7	-	9.1	10.3	7.7	8.5	9.1	11.4	9.4	8.5	9.7	8.9	8	5.8	5.8
33	07-15-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	11-24-93	5.7	3.2	3.5	5.5	6.7	-	3.2	8.1	6.5	8.5	7.6	7.8	7	9.6	7.7	7.7	7.6	6	6
35	04-13-94	8.2	8.9	9	9.8	10	-	9.5	8	8	7.6	7.1	9.1	8.5	10.2	9.2	9.3	8.7	9.1	9.1

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire.

Sampling rounds 1 through 33 were performed by GZA. Subsequent rounds were performed by SHA.

- Indicates no testing performed.

- Indicates an upgradient sampling location.



Round No.	Sampling Date	Groundwater																																		
		B-101	B-102	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	Seep																		
1	09-18-84	<50	360	<50	-	50	-	-	-	-	-	-	-	-	-	-	-	<50																		
2	09-27-84	84	210	63	-	<50	-	-	-	-	-	-	-	-	-	-	-	<50																		
3	02-15-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
4	06-24-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
5	09-13-85	20	120	75	-	9	-	-	-	-	-	-	-	-	-	-	-	44																		
6	02-06-86	<25	88	69	-	<25	-	-	-	-	-	-	-	-	-	-	-	50																		
7	06-05-86	43	120	31	-	<20	-	-	-	-	-	-	-	-	-	-	-	78																		
8	11-15-86	<20	210	53	-	29	-	-	-	-	-	-	-	-	-	-	-	55																		
9	03-03-87	150	160	240	73	130	44	-	-	-	-	-	-	-	-	-	-	<20																		
10	06-11-87	38	200	140	110	110	59	-	-	-	-	-	-	-	-	-	-	5.8																		
11	09-21-87	50	180	120	220	140	-	26	31	25	29	<5	29	<5	31	<5	<5	6.5																		
12	12-29-87	46	200	130	210	47	-	110	80	49	50	56	110	30	100	190	83	8.6																		
13	03-29-88	73	240	86	160	78	-	63	110	13	39	140	120	62	88	270	95	5																		
14	07-13-88	61	140	88	150	86	-	50	330	5.7	46	13	66	33	22	14	160	26																		
15	10-17-88	140	-	110	190	110	-	80	9.9	26	46	23	73	5.1	24	<5	66	<5																		
16	12-20-88	60	-	85	190	85	-	89	21	<5	49	<5	50	23	7.2	<5	69	8	110																	
17	04-26-89	150	-	120	160	120	-	63	39	<5	24	<5	88	<5	30	<5	41	27	24																	
18	07-27-89	150	-	95	170	100	-	32	63	38	51	6	46	<5	54	<5	27	<5	7																	
19	10-26-89	190	380	93	280	140	-	88	110	<5	58	44	90	<5	75	<5	37	<5	7																	
20	02-06-90	270	170	54	190	100	-	61	28	<5	27	<5	44	<5	49	<5	51	<5	230																	
21	05-23-90	180	100	46	100	59	-	<5	28	<5	10	<5	9	<5	<5	<5	28	23	17																	
22	08-29-90	250	220	-	1600	180	-	110	41	<5	120	<5	110	<5	72	29	74	24	41																	
23	12-03-90	120	130	29	69	62	-	<5	<5	12	6	12	<5	<5	<5	<5	<5	22	22																	
24	02-28-91	270	140	120	180	96	-	91	60	33	86	<5	45	43	110	22	62	34	<5																	
25	07-08-91	350	190	170	170	210	-	160	110	<5	60	7.3	150	<5	<5	<5	100	<5	<5																	
26	09-09-91	330	240	170	110	48	-	10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10																	
27	01-02-92	380	320	66	340	75	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10																	
28	04-10-92	360	320	39	150	87	-	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	56																	
29	05-26-92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<10																	
30	07-08-92	180	390	150	440	90	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10																	
31	10-07-92	520	490	110	300	99	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	13	25																	
32	04-15-93	330	200	50	240	190	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10																	
33	07-15-93	400	660	98	280	250	-	65	62	<10	86	<10	14	<10	47	<10	30	<10	11																	
34	11-24-93	420	430	110	340	220	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10																	
35	04-13-94	600	1200	17	1400	270	-	<10	<10	<10	16	<10	<10	<10	<10	<10	<10	<10	94																	

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire.

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.

- Indicates no testing performed.

< Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.

Round No.	Sampling Date	B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	SEEP
1	09-18-84	14	21	-	14	-	1	-	-	-	-	-	-	-	-	-	-	-	9.3
2	09-27-84	27	33	-	47	-	34	-	-	-	-	-	-	-	-	-	-	-	6
3	02-15-85	6.6	13	-	12	-	3.4	-	-	-	-	-	-	-	-	-	-	-	8.4
4	06-24-85	5.9	8	-	14	-	3.2	-	-	-	-	-	-	-	-	-	-	-	8.2
5	09-13-85	4.8	8.1	-	14	-	2	-	-	-	-	-	-	-	-	-	-	-	5.3
6	02-06-86	5.9	9.2	-	10	-	2.4	-	-	-	-	-	-	-	-	-	-	-	6.2
7	06-05-86	6.6	8.4	-	13	-	4.3	-	-	-	-	-	-	-	-	-	-	-	9.9
8	11-15-86	6.4	9.9	-	12	-	4	-	-	-	-	-	-	-	-	-	-	-	5.7
9	03-03-87	6.5	7.4	9.4	14	15	4.2	-	-	-	-	-	-	-	-	-	-	-	2.7
10	06-11-87	9.3	9	6.2	16	15	6.6	-	-	-	-	-	-	-	-	-	-	-	4.8
11	09-21-87	6.8	8	7.2	15	12	-	-	-	-	-	-	-	-	-	-	-	-	4.1
12	12-29-87	12	8.6	12	13	12	-	-	-	-	-	-	-	-	-	-	-	-	4.1
13	03-29-88	7	7	4	12	10	-	-	-	-	-	-	-	-	-	-	-	-	3
14	07-13-88	8	7	7	12	12	-	-	-	-	-	-	-	-	-	-	-	-	4
15	10-17-88	10	-	6	10	11	-	-	-	-	-	-	-	-	-	-	-	-	4
16	12-20-88	10	-	5	9	10	-	-	-	-	-	-	-	-	-	-	-	-	8
17	04-26-89	10	-	9	10	6	-	-	-	-	-	-	-	-	-	-	-	-	4
18	07-27-89	11	-	7	11	11	-	-	-	-	-	-	-	-	-	-	-	-	5
19	10-26-89	11	8	5	9	9	-	3	6	3	3	3	3	3	3	3	3	3	4
20	02-06-90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	05-23-90	11	6	7	8	8	-	2	5	3	4	3	6	4	3	3	4	4	5
22	08-29-90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	12-03-90	8.7	6	7	7.2	6.9	-	3.2	5.7	3.2	4	3.3	4.8	3.8	3.6	3.3	3.4	4.1	4.7
24	02-28-91	8.2	5.9	6.9	8	7.3	-	2	3.7	3.1	2.7	3.2	3.8	3.7	3.1	2.8	3.3	4	3.5
25	07-08-91	11	6.9	6.7	9.2	8.6	-	3.5	5.2	4.9	4	4.5	4.7	5.5	4	5	4.1	5.8	3.7
26	09-09-91	14	12	10	12	11	-	<5	<5	<5	<5	<5	6	<5	<5	<5	<5	<5	<5
27	01-02-92	14	10	6	8	<5	-	<5	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
28	04-10-92	11	<5	<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
29	05-26-92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
30	07-08-92	14	12	9	9	8	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
31	10-07-92	13	12	8	10	8	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
32	04-15-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	07-15-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	11-24-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	04-13-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester New Hampshire.

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.

- Indicates no testing performed

Indicates an upgradient sampling location.

Results > Secondary Maximum Contaminant Level (SMCL) for sodium are shown in boldface type.

Round No.	Sampling Date	Groundwater	B-101	B-102	B-102S	B-103	B-103D	B-104	H-101	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	Seep
1	09-18-84	16.0	18.0	-	13.0	-	-	8.5	-	-	-	-	-	-	-	-	-	-	-	1.0
2	09-27-84	-	15.0	-	22.0	-	-	9.0	-	-	-	-	-	-	-	-	-	-	-	12.0
3	02-15-85	10.0	12.0	-	27.0	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	7.0
4	06-24-85	<5	<5	-	21.0	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	5.0
5	09-13-85	5.0	7.0	-	22.0	-	-	0.9	-	-	-	-	-	-	-	-	-	-	-	9.3
6	02-06-86	17.0	11.0	-	5.1	-	-	5.2	-	-	-	-	-	-	-	-	-	-	-	12.0
7	06-05-86	14.0	6.8	-	10.0	-	-	1.6	-	-	-	-	-	-	-	-	-	-	-	1.5
8	11-15-86	13.0	15.0	-	10.3	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	1.2
9	03-03-87	14.0	6.3	3.6	8.4	23.0	0.9	-	-	-	-	-	-	-	-	-	-	-	-	1.0
10	06-11-87	13.0	9.0	4.5	43.0	14.0	0.9	-	-	-	-	-	-	-	-	-	-	-	-	1.4
11	09-21-87	23.0	11.0	2.8	16.0	18.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2
12	12-29-87	13.0	8.7	4.5	12.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0
13	03-29-88	17.0	11.0	3.3	13.0	19.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2
14	07-13-88	16.0	35.0	9.4	14.0	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	<2
15	10-17-88	14.0	-	3.6	13.0	11.0	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2
16	12-20-88	21.0	-	5.2	16.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7
17	04-26-89	18.0	-	19.0	8.0	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0
18	07-27-89	20.0	-	6.1	13.0	11.0	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.0
19	10-26-89	23.0	<1.0	4.0	<1.0	9.0	-	<1	2.5	1.5	<1	<1	<1	<1.0	<1.0	<1.0	1.5	<1.0	1.5	6.5
20	02-06-90	13.0	6.8	3.0	7.3	7.6	-	<1	1.4	1.3	<1	<1	<1	1.4	1.3	1.1	1.2	1.3	1.3	8.2
21	05-23-90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6
22	08-29-90	13.0	85.0	-	8.2	45.0	-	-	18.0	14.0	2.7	12.0	26.0	1.5	2.8	16.0	16.0	18.0	4.8	2.0
23	12-03-90	12.0	10.0	11.0	8.0	7.0	-	<1	33.0	2.0	2.0	1.0	2.0	<1	1.0	2.0	2.0	1.0	<1	3.0
24	02-28-91	26.0	14.0	18.0	33.0	14.0	-	-	4.0	1.0	5.0	2.0	2.0	4.0	2.0	5.0	1.0	9.0	1.0	3.0
25	07-08-91	18.0	7.3	7.0	7.8	7.9	-	<2	4.8	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3.5
26	09-09-91	17.0	15.0	9.0	9.0	7.0	-	<1	4.0	2.0	<1	2.0	<1	1.0	1.0	1.0	1.0	<1	<1	2.0
27	01-02-92	21.0	15.0	8.0	13.0	8.0	-	<1	9.0	3.0	1.0	4.0	4.0	1.0	12.0	2.0	1.0	2.0	1.0	7.0
28	04-10-92	24.0	11.0	14.0	8.0	6.0	-	2.0	4.0	2.0	<1	<1	<1	1.0	1.0	<1	3.0	-	1.0	23.0
29	05-26-92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	2.0
30	07-08-92	26.0	21.0	11.0	17.0	15.0	-	<1.0	7.0	3.0	1.0	5.0	<1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0
31	10-07-92	20.0	26.0	10.0	17.0	17.0	-	<1.0	7.0	2.0	2.0	1.0	5.0	<1.0	1.0	1.0	1.0	<1.0	1.0	3.0
32	04-15-93	20.0	37.0	5.0	23.0	25.0	-	<1.0	8.0	3.0	3.0	2.0	6.0	<1.0	2.0	1.0	1.0	1.0	1.0	2.0
33	07-15-93	25.0	61.0	14.0	22.0	31.0	-	<1.0	11.0	4.0	4.0	3.0	6.0	1.0	2.0	1.0	2.0	1.0	2.0	3.0
34	11-24-93	20.0	31.0	20.0	27.0	26.0	-	<1	18.0	4.0	4.0	2.0	6.0	1.0	1.0	<1	1.0	<1	1.0	3.0
35	04-13-94	29.0	71.0	6.0	74.0	26.0	-	<1	34.0	6.0	6.0	3.0	4.0	1.0	1.0	1.0	1.0	1.0	2.0	11.0

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Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.

- Indicates no testing performed

< Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.

Results > Secondary Maximum Contaminant Level (MCL) for chloride are shown in bold face type.







Round No.	Date	B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	SEEP
1	09-18-84	5.8	24	-	16	-	8.1	-	-	-	-	-	-	-	-	-	-	-	0.62
2	09-27-84	7	22	-	12	-	31	-	-	-	-	-	-	-	-	-	-	-	2.5
3	02-15-85	3.1	16	-	17	-	0.077	-	-	-	-	-	-	-	-	-	-	-	10
4	06-24-85	3.5	1.6	-	180	-	<0.02	-	-	-	-	-	-	-	-	-	-	-	8.7
5	09-13-85	4.9	15	-	26	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	4.8
6	02-06-86	5	11	-	15	-	<0.03	-	-	-	-	-	-	-	-	-	-	-	5.9
7	06-05-86	6.1	11	-	11	-	<0.005	-	-	-	-	-	-	-	-	-	-	-	11
8	11-15-86	9	19	-	11	-	0.094	-	-	-	-	-	-	-	-	-	-	-	1.4
9	03-03-87	8.2	16	17	14	1.4	0.051	-	-	-	-	-	-	-	-	-	-	-	0.39
10	06-11-87	7	16	16	17	9.8	0.03	-	-	-	-	-	-	-	-	-	-	-	0.58
11	09-21-87	7.9	15	12	24	9.6	-	0.19	0.084	0.053	0.12	0.09	0.24	0.035	0.2	0.061	0.016	0.043	0.49
12	12-29-87	7.4	16	21	24	8.3	-	0.23	0.014	<0.005	0.011	0.033	0.26	<0.005	0.036	0.038	<0.005	0.015	0.61
13	03-29-88	6.5	15	20	22	4.6	-	0.08	<0.01	<0.01	<0.01	0.02	0.15	0.05	0.03	0.03	<0.01	<0.01	0.36
14	07-13-88	7.2	14	21	25	11	-	0.014	0.005	<0.005	<0.005	0.04	<0.005	0.02	<0.005	<0.005	0.008	0.028	
15	10-17-88	8.8	-	20	28	11	-	0.057	0.014	0.006	0.024	0.01	0.013	0.007	0.028	<0.005	0.017	<0.005	0.43
16	12-20-88	13	-	31	28	12	-	0.012	0.012	<0.005	0.016	<0.005	0.008	<0.005	0.016	<0.005	0.008	0.005	8.1
17	04-26-89	15	-	36	22	12	-	0.01	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.034	<0.005	<0.005	0.024	1.6
18	07-27-89	28	-	23	25	12	-	0.01	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	0.01	<0.005	0.005	<0.005	1.2
19	10-26-89	24	18	20	27	14	-	0.022	0.025	<0.005	0.007	<0.005	0.005	<0.005	0.008	<0.005	<0.005	<0.005	1.6
20	02-06-90	23	17	17	23	15	-	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	7.4
21	05-23-90	36	28	16	23	14	-	<0.005	0.025	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	2.9
22	08-29-90	20	14	-	20	14	-	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	0.005	0.013	<0.005	0.005	<0.005	2.6
23	12-03-90	16	13	25	19	12	-	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005	2.7
24	02-28-91	19	12	19	19	13	-	0.009	0.03	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	0.011	0.007	0.009
25	07-08-91	25	11	11	19	13	-	0.006	0.017	<0.005	0.01	<0.005	0.014	<0.005	0.013	<0.005	0.023	0.038	0.44
26	09-09-91	27	15	11	22	12	-	0.009	0.011	<0.005	<0.005	<0.005	0.01	<0.005	0.01	<0.005	0.016	<0.005	0.006
27	01-02-92	20	13	5.8	18	14	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.3
28	04-10-92	18	12	2.3	19	14	-	0.01	0.091	<0.005	<0.005	<0.005	<0.005	0.009	0.009	<0.005	<0.005	<0.005	3.5
29	05-29-92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	0.14
30	07-08-92	96	11	7.3	19	16	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.017	<0.005	1.8
31	10-07-92	24	14	8.4	22	15	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
32	04-15-93	15	12	4.1	14	16	-	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005
33	07-15-93	17	12	14	15	16	-	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.13
34	11-24-93	21	14	28	18	19	-	<0.005	0.017	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<0.005	2.2
35	04-13-94	21	23	6.5	44	18	-	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	0.029	<0.005	0.039	<0.005	7.6

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Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SITA.

- Indicates no testing performed

< Indicates result is less than the detection limit shown

Indicates an upgradient sampling location.

Results > Secondary Maximum Contaminant Level (MCL) for manganese are shown in boldface type.

Round No.	Sampling Date	Groundwater	B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	Seep	
1	09-18-84																				
2	09-27-84																				
3	02-15-85																				
4	06-24-85																				
5	09-13-85																				
6	02-06-86																				
7	06-05-86																				
8	11-15-86																				
9	03-03-87																				
10	06-11-87																				
11	09-21-87																				
12	12-29-87																				
13	03-29-88																				
14	07-13-88																				
15	10-17-88																				
16	12-20-88																				
17	04-26-89																				
18	07-27-89																				
19	10-26-89																				
20	02-06-90	<0.04	0.04	<0.01	0.04	0.04	0.04	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	
21	05-23-90	0.04	0.04	<0.01	0.03	0.03	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
22	08-29-90	0.05	0.05	0.03	0.03	0.03	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
23	12-03-90	0.023	0.04	<0.01	<0.01	0.018	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
24	02-28-91	0.035	0.04	<0.01	0.04	0.04	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
25	07-08-91	<b>0.054</b>	<b>0.06</b>	<0.01	<b>0.04</b>	<b>0.04</b>	<b>0.04</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
26	09-09-91	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
27	01-02-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
28	04-10-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
29	05-26-92																				<0.01
30	07-08-92	<0.01	0.03	0.03	<0.01	0.03	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
31	10-07-92	0.08	0.07	0.05	0.05	0.04	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
32	04-15-93	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
33	07-15-93	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
34	11-24-93	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
35	04-13-94	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

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· Indicates no testing performed  
 < Indicates result is less than the detection limit shown.  
 Indicates an upgradient sampling location.  
**Results > Maximum Contaminant Level (MCL) for arsenic are shown in boldface type.**



Water Quality Summary Table 13

Round No.	Sampling Date	Groundwater	Barium (mg/L)
1	09-18-84	B-101 B-102 B-102S B-103 B-103D B-401 B-402U B-402L B-403U B-403L B-404U B-404L B-405U B-405L B-406U B-406L	See R
2	09-27-84		
3	02-15-85		
4	06-24-85		
5	09-13-85		
6	02-06-86		
7	06-05-86		
8	11-15-86		
9	03-03-87		
10	06-11-87		
11	09-21-87		
12	12-29-87		
13	03-29-88		
14	07-13-88		
15	10-17-88		
16	12-20-88		
17	04-26-89		
18	07-27-89		
19	10-26-89		
20	02-06-90		
21	05-23-90		
22	08-29-90		
23	12-03-90		
24	02-28-91		
25	07-08-91		
26	09-09-91		
27	01-02-92		
28	04-10-92		
29	05-26-92		
30	07-08-92		
31	10-07-92		
32	04-15-93	0.06	0.17 0.08 0.09 0.09
33	07-15-93	0.07	0.3 0.14 0.1 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05
34	11-24-93	0.07	0.06 1.6 0.14 0.12
35	04-13-94	0.08	0.1 1.4 0.23 0.12

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Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SH&A

- Indicates no testing performed

< Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.

Results > Maximum Contaminant Level (MCL) for barium are shown in boldface type.

Round No.	Sampling Date	Groundwater																
		B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-404L	B-404U	B-405L	B-405U	B-406L	B-406U	Seep
1	09-18-84																	
2	09-27-84																	
3	02-15-85																	
4	06-24-85																	
5	09-13-85																	
6	02-06-86																	
7	06-05-86																	
8	11-15-86																	
9	03-03-87																	
10	06-11-87																	
11	09-21-87																	
12	12-29-87																	
13	03-29-88																	
14	07-13-88																	
15	10-17-88																	
16	12-20-88																	
17	04-26-89																	
18	07-27-89																	
19	10-26-89																	
20	02-06-90	<0.005	<b>0.011</b>	<0.005	<b>0.009</b>	<b>0.006</b>												
21	05-23-90	<0.005	<0.005	<0.005	<0.005	<0.005												
22	08-29-90	<0.005	<0.005	<0.005	<0.005	<0.005												
23	12-03-90	<0.005	<0.005	<0.005	<0.005	<0.005												
24	02-28-91	<0.005	<0.005	<0.005	<0.005	<0.005												
25	07-08-91	<0.005	<0.005	<0.005	<0.005	<0.005												
26	09-09-91	<0.001	<0.001	<0.001	<0.001	<0.001												
27	01-02-92	<0.001	<0.001	<0.001	<0.001	<0.001												
28	04-10-92	<b>0.016</b>	<b>0.042</b>	<b>0.01</b>	<b>0.027</b>	<b>0.013</b>												
29	05-26-92																	
30	07-08-92	<0.001	<b>0.04</b>	<b>0.019</b>	<b>0.025</b>	<b>0.01</b>												
31	10-07-92	<0.001	<0.001	<0.001	<0.001	<0.001												
32	04-15-93	<0.001	<b>0.015</b>	<b>0.004</b>	<0.001	<b>0.003</b>												
33	07-15-93	<0.001	<0.001	<0.001	<0.001	<0.001												
34	11-24-93	<0.001	<0.001	<0.001	<0.001	<0.001												
35	04-13-94	<0.001	<0.001	<0.001	<0.001	<0.001												

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA

- Indicates no testing performed

< Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.

Results > Maximum Contaminant Level (MCL) for cadmium are shown in boldface type.

No.	Date	Round Sampling Groundwater															See		
		B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L		B-406U	B-406L
1	09-18-84																		
2	09-27-84																		
3	02-15-85																		
4	06-24-85																		
5	09-13-85																		
6	02-06-86																		
7	06-05-86																		
8	11-15-86																		
9	03-03-87																		
10	06-11-87																		
11	09-21-87																		
12	12-29-87																		
13	03-29-88																		
14	07-13-88																		
15	10-17-88																		
16	12-20-88																		
17	04-26-89																		
18	07-27-89																		
19	10-26-89																		
20	02-06-90	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21	05-23-90	0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
22	08-29-90	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	12-03-90	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	02-28-91	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	07-08-91	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	09-09-91	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
27	01-02-92	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
28	04-10-92	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
29	05-26-92																		
30	07-08-92	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
31	10-07-92	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
32	04-15-93	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
33	07-15-93	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
34	11-24-93	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
35	04-13-94	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire.

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.

Indicates no testing performed.

< Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.

Results > Maximum Contaminant Level (MCL) for chromium are shown in boldface type.

Round No.	Sampling Date	Groundwater										Seed						
		B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U		B-403L	B-404U	B-404L	B-405U	B-405L	B-406U
1	09-18-84																	
2	09-27-84																	
3	02-15-85																	
4	06-24-85																	
5	09-13-85																	
6	02-06-86																	
7	06-05-86																	
8	11-15-86																	
9	03-03-87																	
10	06-11-87																	
11	09-21-87																	
12	12-29-87																	
13	03-29-88																	
14	07-13-88																	
15	10-17-88																	
16	12-20-88																	
17	04-26-89																	
18	07-27-89																	
19	10-26-89																	
20	02-06-90	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
21	05-23-90	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	<0.005	<0.005	<0.005	<0.005	<0.005
22	08-29-90	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
23	12-03-90	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
24	02-28-91	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
25	07-08-91	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
26	09-09-91	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	01-02-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
28	04-10-92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
29	05-26-92																	
30	07-08-92	<0.01	0.06	<0.01	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31	10-07-92	<0.01	0.03	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
32	04-15-93	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
33	07-15-93	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
34	11-24-93	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
35	04-13-94	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire.

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.

Indicates no testing performed.

< Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.

Results > Maximum Contaminant Level (MCL) for lead are shown in boldface type.

Round No.	Sampling Date	B-101	B-102	B-102S	B-103	B-103D	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	Seep	
1	09-18-84																		
2	09-27-84																		
3	02-15-85																		
4	06-24-85																		
5	09-13-85																		
6	02-06-86																		
7	06-05-86																		
8	11-15-86																		
9	03-03-87																		
10	06-11-87																		
11	09-21-87																		
12	12-29-87																		
13	03-29-88																		
14	07-13-88																		
15	10-17-88																		
16	12-20-88																		
17	04-26-89																		
18	07-27-89																		
19	10-26-89																		
20	02-06-90																		
21	05-23-90																		
22	08-29-90																		
23	12-03-90																		
24	02-28-91																		
25	07-08-91																		
26	09-09-91																		
27	01-02-92																		
28	04-10-92																		
29	05-26-92																		
30	07-08-92																		
31	10-07-92																		
32	04-15-93	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
33	07-15-93	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
34	11-24-93	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
35	04-13-94	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire. Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.

Indicates no testing performed.

Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.

Results > Maximum Contaminant Level (MCL) for mercury are shown in boldface type.

Round No.	Sampling Date	Groundwater	Result
1	09-18-84	B-101 B-102 B-102S B-103 B-103D B-401 B-402U B-402L B-403U B-403L B-404U B-404L B-405U B-405L B-406U B-406L	Seep
2	09-27-84		
3	02-15-85		
4	06-24-85		
5	09-13-85		
6	02-06-86		
7	06-05-86		
8	11-15-86		
9	03-03-87		
10	06-11-87		
11	09-21-87		
12	12-29-87		
13	03-29-88		
14	07-13-88		
15	10-17-88		
16	12-20-88		
17	04-26-89		
18	07-27-89		
19	10-26-89		
20	02-06-90		
21	05-23-90		
22	08-29-90		
23	12-03-90		
24	02-28-91		
25	07-08-91		
26	09-09-91		
27	01-02-92		
28	04-10-92		
29	05-26-92		
30	07-08-92		
31	10-07-92		
32	04-15-93	<0.01	<0.01
33	07-15-93	<0.01	<0.01
34	11-24-93	<0.01	<0.01
35	04-13-94	<0.01	<0.01

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire.

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SH&A.

- Indicates no testing performed.

< Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.

Results > Maximum Contaminant Level (MCL) for selenium are shown in boldface type.

Round No.	Sampling Date	B-101	B-102	B-102S	B-103	B-103D	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	Seed
1	09-18-84																	
2	09-27-84																	
3	02-15-85																	
4	06-24-85																	
5	09-13-85																	
6	02-06-86																	
7	06-05-86																	
8	11-15-86																	
9	03-03-87																	
10	06-11-87																	
11	09-21-87																	
12	12-29-87																	
13	03-29-88																	
14	07-13-88																	
15	10-17-88																	
16	12-20-88																	
17	04-26-89																	
18	07-27-89																	
19	10-26-89																	
20	02-06-90																	
21	05-23-90																	
22	08-29-90																	
23	12-03-90																	
24	02-28-91																	
25	07-08-91																	
26	09-09-91																	
27	01-02-92																	
28	04-10-92																	
29	05-26-92																	
30	07-08-92																	
31	10-07-92																	
32	04-15-93	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
33	07-15-93	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
34	11-24-93	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
35	04-13-94	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester, New Hampshire. Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SH&A.

. Indicates no testing performed.  
 < Indicates result is less than the detection limit shown.  
 Indicates an upgradient sampling location.  
 Results > Maximum Contaminant Level (MCL) for silver are shown in boldface type.

Round No.	Sampling Date	Groundwater	B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-402U	B-402L	B-403U	B-403L	B-404U	B-404L	B-405U	B-405L	B-406U	B-406L	Seep
1	09-18-84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	09-27-84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	02-15-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	06-24-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	09-13-85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	02-06-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	06-05-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	11-15-86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	03-03-87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	06-11-87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	09-21-87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	12-29-87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	03-29-88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	07-13-88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	10-17-88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	12-20-88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	04-26-89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	07-27-89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	10-26-89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	02-06-90	0.041	0.011	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21	05-23-90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	08-29-90	<0.01	0.029	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	12-03-90	0.027	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	02-28-91	0.033	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	07-08-91	0.041	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	09-09-91	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
27	01-02-92	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
28	04-10-92	0.06	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
29	05-26-92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	07-08-92	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
31	10-07-92	0.08	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
32	04-15-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	07-15-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	11-24-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	04-13-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Spreadsheet master prepared by and data for rounds 1 through 32 entered by GZA GeoEnvironmental, Inc. of Manchester New Hampshire.

Sampling rounds 1 through 33 were completed by GZA. Subsequent rounds were completed by SHA.

- Indicates no testing performed.

< Indicates result is less than the detection limit shown.

Indicates an upgradient sampling location.



Round No.	Sampling Date	B-101	B-102	B-102S	B-103	B-103D	B-104	B-401	B-403L	B-404U	B-405L	B-406U	B-406L	B-407L	Seep
1	09-18-84	>10	>2790	-	>26	-	>0	-	-	-	-	-	-	-	>0
2	09-27-84	>31	>590	-	>337	-	BDL	-	-	-	-	-	-	-	>395
3	02-15-85	>6	>920	-	>934	-	>0	-	-	-	-	-	-	-	>405
4	06-24-85	>0	>260	-	>644	-	>0	-	-	-	-	-	-	-	>230
5	09-13-85	>9	>310	-	>506	-	BDL	-	-	-	-	-	-	-	>43
6	02-06-86	BDL	>87	-	>79	-	BDL	-	-	-	-	-	-	-	>213
7	06-05-86	>0	>240	-	>74	-	BDL	-	-	-	-	-	-	-	BDL
8	11-15-86	>0	>1105	-	>120	-	BDL	-	-	-	-	-	-	-	BDL
9	03-03-87	>0	>262	BDL	>20	>30	BDL	-	-	-	-	-	-	-	BDL
10	06-11-87	BDL	>721	26	>53	>252	BDL	-	-	-	-	-	-	-	BDL
11	09-21-87	20	>929	42	>474	>450	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	>40
12	12-29-87	7	647	BDL	>505	>255	-	>0	BDL	BDL	BDL	BDL	BDL	BDL	BDL
13	03-29-88	>0	682	BDL	>214	>19	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14	07-13-88	>56	>441	>0	>1016	>524	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	10-17-88	>5	-	BDL	>516	>42	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	>7
16	12-20-88	>82	-	>0	>467	>165	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	>222
17	04-26-89	>331	-	>0	>458	>86	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	>0
18	07-27-89	106	-	BDL	>48	>49	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
19	10-26-89	94	>107	BDL	>9	50	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	02-06-90	347	102	BDL	95	61	-	BDL	13	BDL	BDL	BDL	BDL	BDL	63
21	05-23-90	102	68	BDL	40	49	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9
22	08-29-90	195	142	-	27	58	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
23	12-03-90	211	227	BDL	55	51	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	51
24	02-28-91	>292	147	BDL	>40	44	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
25	07-08-91	>468	>313	96	>60	>54	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26	09-09-91	916	1165	477	302	106	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
27	01-02-92	661	1563	234	1219	275	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
28	04-10-92	669	1376	178	624	279	-	120	BDL	BDL	BDL	BDL	BDL	BDL	417
29	05-26-92	-	-	-	-	-	-	BDL	-	-	-	-	-	-	BDL
30	07-08-92	889	938	507	787	298	-	50	BDL	BDL	BDL	BDL	BDL	BDL	27
31	10-07-92	846	1573	487	849	364	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12
32	04-15-93	792	4006	161	723	660	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
33	07-15-93	1033	2870	244	1078	1239	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
34	11-24-93	1028	2375	435	1476	1029	-	-	-	-	-	-	-	-	21
35	04-13-94	1820	6250	3	9020	1326	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	98

LEGEND

Indicates an upgradient sampling location.  
 BDL - Indicates the result is below detection limits for parameters tested.  
 > - Indicates that the sum of the VOC's is greater than the value shown due to the presence of one or more parameters identified but in concentrations less than the detection limit.

NOTES:

Samples for rounds 1-25 analyzed by Resource Analyticals, Inc. of Hampton, New Hampshire.  
 Samples for rounds 26-34 analyzed by Eastern Analytical, Inc. of Concord, New Hampshire.  
 Old landfill excavation commenced in 1/91 approximately 2 months after Round No. 26.  
 VOC concentration at B-401, Round 28, consists of 120 ug/l Acetone.  
 VOC concentration at B-401, Round 30, consists of 50 ug/l Acetone.  
 VOC concentration at B-402U, Round 32, consists of 80 ug/l Acetone.