



DEPARTMENT OF THE NAVY  
NAVAL BASE  
NORFOLK, VIRGINIA 23511-6002

0701-10/11/1991-00120

IN REPLY REFER TO:

5090  
Ser N42/

001 1 : 1991

Mr. Dave Borton  
State Water Control Board  
287 Pembroke Office Park  
Suite 310, Pembroke II  
Virginia Beach, VA 23462

Re: Groundwater Data For Camp Allen Installation Restoration Site

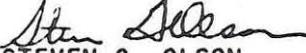
Dear Mr. Borton:

As discussed in a September 27, 1991 telephone conversation with Ms. Cheryl Barnett of this staff, we are providing groundwater data from studies conducted at the Camp Allen landfill. Enclosed are a section from our Installation Restoration Program Remedial Investigation - Interim Report of March 1988 conducted by Malcolm Pirnie and draft data from our Remedial Investigation/ Feasibility Study which is currently being conducted by CH2M Hill.

The section from the Malcolm Pirnie study provides groundwater monitoring well locations and results from three rounds of sampling. The CH2M Hill draft report provides a table of water level elevations, figures showing well sampling locations, boring logs, well completion reports for wells installed, and sampling results.

For additional information please contact Ms. Sharon Waligora at 444-3009.

Sincerely,

  
STEVEN G. OLSON  
Director, Environmental Programs  
Acting  
By direction of the Commander

Encl:

- (1) Data from Malcolm Pirnie Study
- (2) Data from CH2M Hill Study

Enclos

**WELLS SAMPLED AND SURVEYED  
AS PART OF THE  
CAMP ALLEN RI INVESTIGATION**

<b>AREA</b>	<b>WELL#</b>	<b>SHALLOW</b>	<b>DEEP</b>	<b>SURVEY COORDINATES</b>
A	B-1W	X		North: 223552.66 East: 2642291.15
A	A-MW5	X		North: 223172.38 East: 2641818.69
A	A-MW7	X		North: 222990.20 East: 2641397.95
A	A-MW9C		X	North: 224182.60 East: 264127.51
A	A-MW9A	X		North: 224174.39 East: 2641252.49
A	A-MW9B		X	North: 224184.91 East: 2641243.00
A	A-MW8A	X		North: 224043.08 East: 2641246.93
A	A-MW6A	X		North: 223445.45 East: 2641426.77
A	A-MW6B		X	North: 223452.79 East: 2641421.01
A	B-20W	X		North: 224102.54 East: 2641482.00
A	B-17W	X		North: 224435.57 East: 2641487.30
A	B-15WA	X		North: 224731.28 East: 2641590.57
A	A-MW1B		X	North: 225387.21 East: 2641957.11
A	A-MW1C		X	North: 225375.40 East: 2641969.35
A	A-MW11A	X		North: 225038.23 East: 2643040.86
A	A-MW11B		X	North: 225046.72 East: 2643046.77
A	A-MW12	X		North: 225357.46 East: 2642851.51

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AREA	WELL#	SHALLOW	DEEP	SURVEY COORDINATES
A	GW-3	X		North: 225536.63 East: 2643384.11
A	A-MW10B		X	North: 224275.70 East: 2641122.51
A	GW-2	X		North: 224582.99 East: 2642695.15
A	A-MW4B		X	North: 224012.61 East: 2642366.85
A	A-MW4A	X		North: 224027.44 East: 2642377.36
A	A-MW14B		X	North: 224252.41 East: 2640822.82
A	A-MW13B		X	North: 223921.69 East: 2640763.67
A	GW-1	X		North: 225381.10 East: 2641963.60
A	A-MW8B		X	North: 224064.63 East: 2641243.91
A	B-15WB		X	North: 224741.26 East: 2641594.55
A	A-MW15B		X	North: 224791.57 East: 2640773.07
A	A-MW16B		X	North: 225346.20 East: 2640841.34
A	A-MW17B		X	North: 225543.18 East: 2641858.28
A	B-20WSS	X		North: 224122.95 East: 2641475.85
A	A-MW10A	X		North: 224267.86 East: 2641122.78
A	A-MW1B		X	North: 225387.21 East: 2641957.11
A	AP-8		X	North: 224076.20 East: 2641245.13
A	A-MW18B		X	North: 225887.55 East: 2641799.38

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<b>AREA</b>	<b>WELL#</b>	<b>SHALLOW</b>	<b>DEEP</b>	<b>SURVEY COORDINATES</b>
A	A-MW19B		X	North: 225325.63 East: 2642760.63
B	B-MW2B		X	North: 224216.19 East: 2643564.02
B	B-MW3B		X	North: 224397.77 East: 2643873.37
B	B-MW5B		X	North: 224787.83 East: 2643821.56
B	GW-4	X		North: 224509.25 East: 2643793.74
B	B-MW8B		X	North: 225071.61 East: 2643799.61
B	B-MW9B		X	North: 224894.82 East: 2644137.05
B	B-MW11B		X	North: 224206.67 East: 2644105.53
B	B-MW12	X		North: 224161.55 East: 2644256.69
B	B-MW13	X		North: 224049.09 East: 2644204.23
B	B-MW14	X		North: 223766.20 East: 2644373.03
B	B-MW15	X		North: 223349.12 East: 2643831.16
B	B-MW16	X		North: 223435.58 East: 2643742.23
B	B-MW17	X		North: 223304.11 East: 2643766.67
B	B-MW18A	X		North: 224244.54 East: 2643407.98
B	B-MW19A	X		North: 224511.13 East: 2643582.13
B	B-MW19B		X	North: 224506.04 East: 2643577.80
B	B-MW11A	X		North: 224211.38 East: 2644109.62

**WELLS SAMPLED AND SURVEYED  
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<b>AREA</b>	<b>WELL#</b>	<b>SHALLOW</b>	<b>DEEP</b>	<b>SURVEY COORDINATES</b>
B	B-MW3A	X		North: 224398.07 East: 2643886.00
B	B-MW7	X		North: 224700.50 East: 2643240.88
B	B-MW9A	X		North: 224893.59 East: 2644118.93
B	B-MW10	X		North: 224536.52 East: 2644366.57
B	B-MW8A	X		North: 225078.02 East: 2643791.01
B	GW-5	X		North: 224781.75 East: 2643828.62
B	B-MW2A	X		North: 224233.28 East: 2643583.51
B	GW-6	X		North: 224057.62 East: 2643297.08
B	B-MW1	X		North: 224068.98 East: 2643742.22

**MISCELLANEOUS WELLS SURVEYED  
AS PART OF THE  
CAMP ALLEN RI INVESTIGATION**

<b>AREA</b>	<b>WELL#</b>	<b>SHALLOW</b>	<b>DEEP</b>	<b>SURVEY COORDINATES</b>
A	B-4W	X		North: 223560.79 East: 2641896.50
A	B-5W	X		North: 223547.52 East: 2641643.69
A	B-7W	X		North: 223831.12 East: 2641853.98
A	B-9W	X		North: 224246.94 East: 2642235.50
A	B-11W	X		North: 224558.57 East: 2642205.00
A	B-13W	X		North: 224828.38 East: 2641983.29
A	B-16W	X		North: 224494.17 East: 2641825.88
A	GW-7		X	North: * East: *

Note:

\* Location not surveyed

**GAS MONITORING STATIONS SURVEYED  
AS PART OF THE  
CAMP ALLEN RI INVESTIGATION**

AREA	STATION#	SURVEY COORDINATES
A	B-2	North: 223644.15 East: 2642153.34
A	B-3	North: 223808.68 East: 2642128.11
A	B-6	North: 223793.48 East: 2641610.71
A	B-8	North: 224082.95 East: 2642286.09
A	B-10	North: 224393.07 East: 2642216.97
A	B-12	North: 224696.21 East: 2642179.96
A	B-14	North: 224766.72 East: 2641818.65
A	B-18	North: 224579.85 East: 2641564.52
A	B-19	North: * East: *

Note:

\* Location not surveyed