



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I

1 CONGRESS STREET, SUITE 1100 (HBT)
BOSTON, MASSACHUSETTS 02114-2023

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NAS BRUNSWICK
5090.3a

December 1, 1998

Mr. Emil Klawitter (eeklawitter@efdnorth.navfac.navy.mil)
Northern Division, Naval Facilities Engineering Command
Code 1823/EK
10 Industrial Highway, Mailstop 82
Lester, PA 19113-2090

Building 95 Monitoring Event 10-August 1998, Naval Air Station, Brunswick, Maine

Dear Mr. Klawitter: *Emil*

The EPA is encouraged by the above report results in which most trends observed in the 1997 Annual Report seem to continue. We have several general observations and comments.

Observations

1. DDT concentration continued downward in MW-067 but rose in MW-068 after many undetected rounds. This could indicate DDT transport and/or decay. DDT levels were at the same order of magnitude, but less than the MEG of 0.83 ppb. MW-065/066 remain free of DDT/DDD.
2. The groundwater gradient remained steady at about 0.01 ft/ft in a SE direction.
3. DDT concentrations were very similar in MW-067 and PW-9501/9502, which were sampled in 5/98 by Harding-Lawson. This indicates to EPA that MW-067 is representative of groundwater between the shed and building 95.
4. VOC's and metals were below MEG/MCL's, except for manganese which is due to site background.
5. Thallium wasn't detected in any wells on this event. Proving that thallium detections were due to background was an EPA comment to the draft closure and 1997 annual reports.

Comments

1. The results of the 10 monitoring events indicate to EPA that yearly sampling of all four monitoring wells isn't required. We recommend that MW-067/068 be sampled for pesticides in 2000 to support a five year review type of process (even though building 95 isn't strictly part of the CERCLA process at Brunswick).
 - a. Current pesticide levels are less than the MEG/MCL, but soil sources are still in place and concentrations rose in MW-068.
 - b. Recent and long term trends show that concentrations are stable within

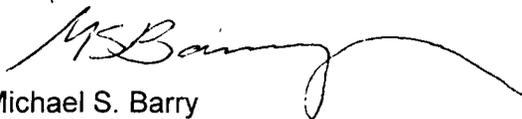
a range and shouldn't rise above MEG/MCL within two years.

- c. Depending on the results in 2000, EPA would expect pesticide sampling again in 2005, or not at all. Well locations could also be changed per 2000 results.
2. Well gaging events have resulted in steady groundwater gradients; we feel that performing these events with sampling events is often enough.
3. We believe the data shows that the existing well network adequately monitors site groundwater conditions relative to site risks. If another well is installed, we recommend the area between MW-068 and SE corner of building 95. It could be either a micro well or direct push since a long term well may not be needed.
4. VOC and metal sampling, except for thallium, is no longer required. Data showing that thallium is due to area background conditions would satisfy EPA and remove any need to sample for thallium.

Because we will be discussing these results and the building 95 site in general at the technical meeting on 12/3/98, a formal response to these general comments isn't required. Noting discussion points and consensus on the way ahead in the meeting minutes is acceptable to the EPA and will streamline the project.

For any questions, please contact me at 617-918-1344 or barry.michael@epamail.epa.gov.

Sincerely,



Michael S. Barry
Remedial Project Manager
Federal Superfund Facilities Section

Attachments: Graphs of Pesticides for MW-NASB-067/068
Building 95 Site Map marked up with recent Pesticide Results

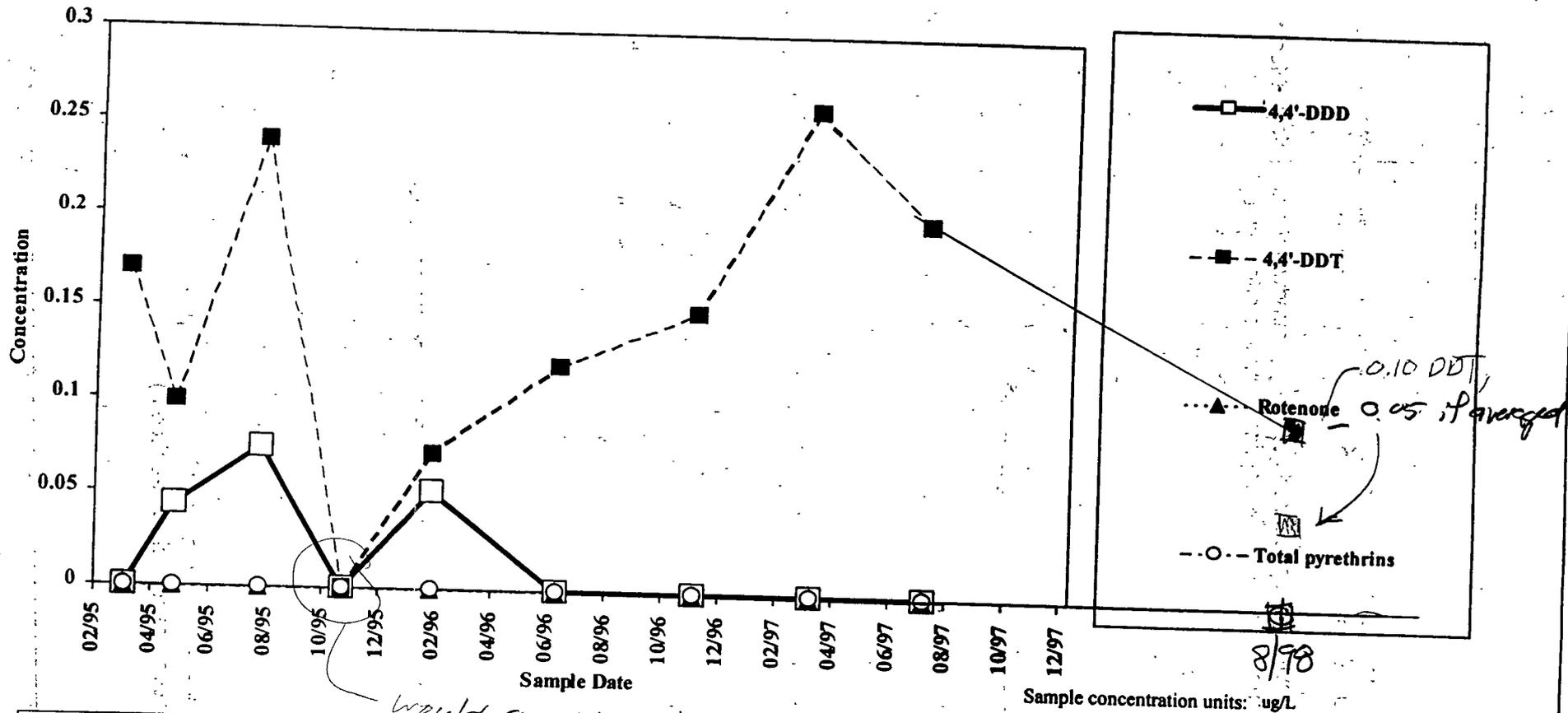
- cc. Tony Williams/NASB (WilliamsA@nasb.navy.mil)
Claudia Sait/ME DEP (claudia.b.sait@state.me.us)
Tom Fusco/BACSE
Ed Benedikt/Brunswick Conservation Commission (rbenedik@giw.net)
Rene Bernier/Topsham Community Rep.
Carolyn LePage/LePage Environmental (clepagegeo@aol.com)
Jeff Brandow/Harding-Lawson (jbrandow@harding.com)
Pete Nimmer/EA Environmental (pln@eaest.com)

Sample Location:

MW-NASB-067

Building 95
Ground-water

Chemicals of concern: Pesticides



4,4'-DDD	
MEG:	0.83
MCL:	

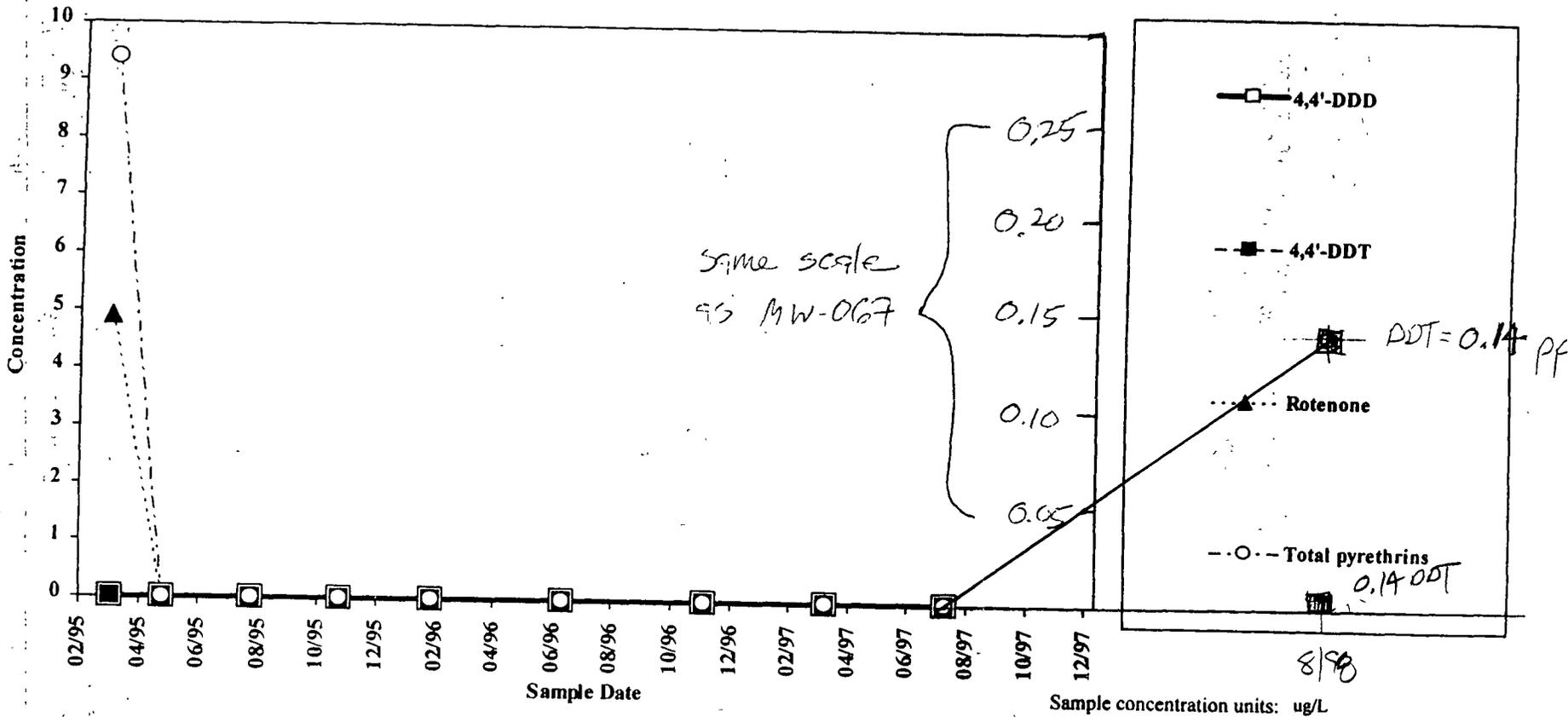
*would consider throwing this result out?
It looks suspect!*

Marked up by US EPA Region 1 [Signature]

Sample Location:
MW-NASB-068

Building 95
 Ground-water

Chemicals of concern: Pesticides

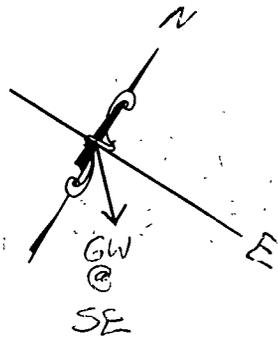


4,4'-DDD	
MEG:	0.83
MCL:	-

Note: (1) Were this trend to continue, the MEG would be reached in about 6 yrs.
 (2) There's no evidence it would continue to rise that far.

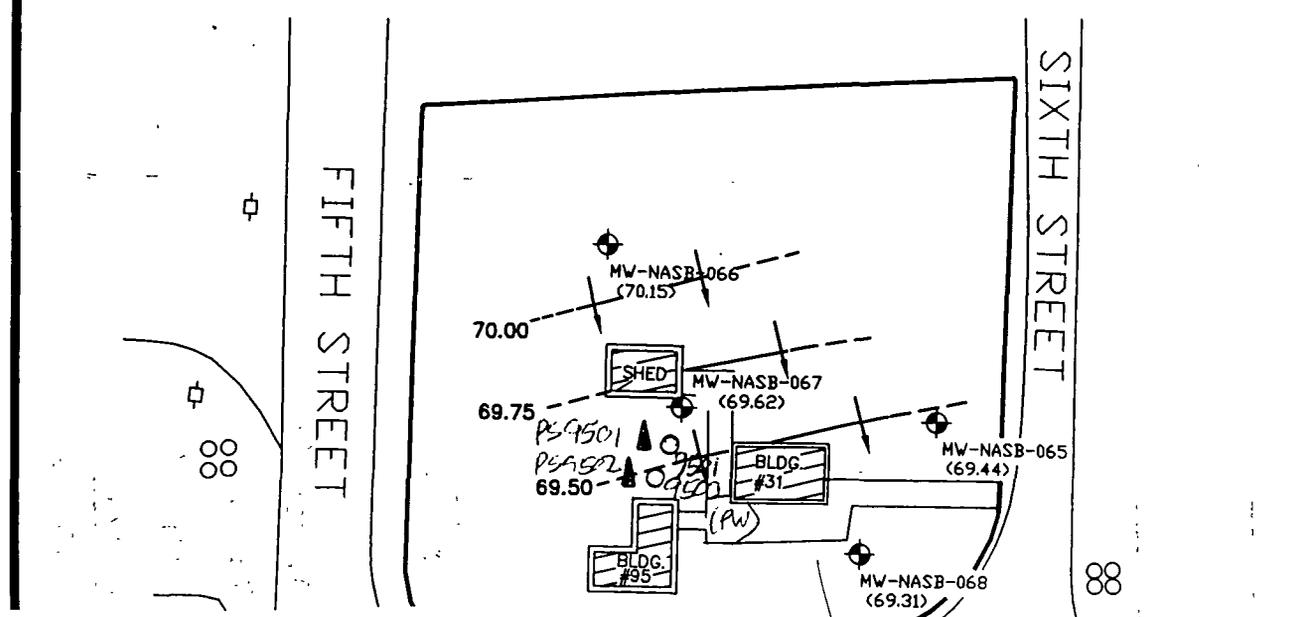
Slight rise after many events at zero. Movement toward? of plume away from site?

Marked up by US EPA Region 1, MSB



LEGEND

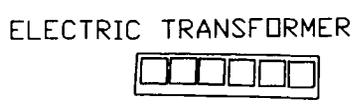
- MW-NASB-065 (69.44) MONITORING WELL LOCATION (WATER TABLE ELEVATION, FT. MSL.)
- INTERPRETED DIRECTION OF GROUND-WATER FLOW
- 70.00 INTERPRETED POTENTIOMETRIC SURFACE; CONTOUR INTERVAL = 0.25 FT
- FORMER BUILDINGS
- SITE BOUNDARY



Results Table - Recent GW

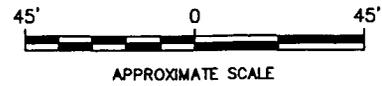
Chem MEG/MCL	5/98		8/98	8/98
	PW 9501	PW 9502	MW 67	MW 68
DDT (.83)	ND	0.20	0.10	0.14
DDD -	0.44	0.20	0.0	0.0

$$\text{Grad} = \frac{70.15 - 69.31}{100} = 0.0084$$



all in PPB.
USEPA RI MSB

NOTE: NO PRECIPITATION WAS NOTED DURING GAUGING EVENT.



DWG. FILE No. F:\CAD\29600\47\ANNUAL\BLD95\1998\B95EV12

			BUILDING 95 NAVAL AIR STATION BRUNSWICK, MAINE			FIGURE 5 INTERPRETED WATER TABLE ELEVATIONS, 4 AUGUST, 1998 WELL GAUGING DATA	
PROJECT MGR CEM	DESIGNED BY SYC	DRAWN BY SAP	CHECKED BY PLN	SCALE AS SHOWN	DATE 26 OCT 1998	PROJECT NO 29600.47	FILE No. B95EV12