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FROM:	Patrick Holden, Team Lea Ground-Water Team Exposure Assessment Bran		I'		7				
THRU:	Paul F. Schuda, Chief Exposure Assessment Bra	nch/HED	(TS-76	9 <b>K</b>	al.	F.	khu	Au	
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Type P	roduct: <u>Soil fumigant</u>								
Compan	y Name: <u>DOW Chemical C</u>	ompany		<del></del>		<del>7 - 3 - 1</del> - 5 - 1 - 1 - 1 - 1		<del></del>	
Purpose: Review of monitoring sites for small-scale									
retrospective ground-water monitoring study.									
Date R	eceived: <u>3/30/88</u>	<del></del>	ACTION	1 CO	DE: _	0			
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## SMALL-SCALE RETROSPECTIVE GROUND-WATER MONITORING STUDY SITE REVIEW FOR TELONE II

### 1. CHEMICAL:

Chemical name: 1,3-Dichloropropene Common name: 1,3-D, Telone II

Structure:

$$\begin{array}{c|cccc}
H C - C = CH \\
2 & & & \\
C1 & H & C1
\end{array}$$

# 2. TEST MATERIAL:

Not Applicable.

### 3. SPUDY/ACTION TYPE:

Review of proposed sites for small-scale retrospective ground-water monitoring study.

# 4. STUDY IDENTIFICATION:

Letter dated 3/21/88 with attachments from Robert Morgan, Agricultural Products Department, DOW Chemical U.S.A. to Herman Toma, Registration Division, EPA/OPP.

Robert W. Morgan, Manager Submitted by:

Regulatory Planning

Agricultural Products Department

DOW Chemical U.S.A. Midland, MI 48640

Identifying No.: 464-511

Action Code:

Accession Number: Not given Record Number: 218,789

Date Sent to HED: 3/30/88

5. REVIEWED BY:

W. Martin Williams Signature:

Hydrologist

w. Mark Williams

Date: 5/5/88 OPP/HED/EAB/Ground-Water Team

#### 6. APPROVED BY:

Patrick Holden Team Leader

OPP/HED/EAB/Ground-Water Team

Signature:

Date:

5/5/88

#### 7. CONCLUSIONS:

Site data submitted to date is inadequate to give approval on proposed sites. See deficiencies under Section 10.

### 8. RECOMMENDATIONS:

Registrant should be sent a copy of the discussion given in Section 10 with the enclosed Appendix from FAB's Ground-Water Monitoring Guidelines.

# 9. BACKGROUND:

The protocol for a small-scale retrospective ground-water monitoring study for Telone II was submitted and reviewed in EAB file #70575 (dated 6/16/87). The present review includes both site data submitted from the registrant (accompanying the letter identified above) and agreements reached at a meeting on April 15, 1988 between DOW Chemical Company and the Ground-Water Team of the Exposure Assessment Branch. Present during the meeting were Robert Morgan, Frances O'Melia, J. Robert Peterson of Dow Chemical U.S.A.; and Herman Toma, Catherine Eiden, and W. Martin Williams of U.S.EPA/OPP.

### 10. DISCUSSION:

Agreements reached during the April 15, 1988 meeting are presented below.

- 1. DOW Chemical Company will need to provide supplemental information on each site prior to site approval. A list of minimum data requirements follows:
  - Chemical use histories (minimum requirements are use in 2/3 or 3/5 most recent years),
  - Crop history (past and proposed),
  - Ground slopes (ideal requirements are 2% maximum).
  - Water table depths (ideal requirements are 20-30 ft maximum),
  - Seasonal water table fluctuations,
  - Irrigation practices,
  - Soil characterization (restrictive layers prohibited), and
  - Knowledge of anthropoegenic influences (e.g. installation of drain tiles, significant ground water withdrawls, site grading, etc.).
- 2. The Ground-Water Team will forward a copy of the Appendix to the Ground-Water Monitoring Guidelines to the registrant.
- 3. Sampling is not required to begin prior to spring 1988 field treatment of Telone II. Sampling will continue for one year after study initiation, during and after the following spring treatment. This agreement is based

on a need for additional time for site selection and setup.

- 4. DOW Chemical Company will propose two sites in Oregon and two sites in Washington from which one monitoring site will be selected by the Agency. This is based on EAB's concern for relatively low use histories, high well depths, and fine textured soils in Dow's proposed Washington sites.
- 5. Both sites proposed in Florida look promising with Site A preferred at this time. Minimum data requirements are outstanding.
- 6. Only one site will be required in the Carolinas. Both sites in North Carolina look promising with the Sampson Co. site preferred at this time. This decision was based on similarities between both proposed Carolina sites and the desire to pick up an additional site in California.
- 7. The proposed site in Scott's Bluff County Nebraska looks promising at this time. Minimum data requirements are outstanding.
- 8. Two sites will be monitored in California: one in the coastal (i.e., brocoli) region and one in the central valley. This decision is based on diverse climatological and geological conditions in these two areas.
- 9. Site selection and monitoring for Hawaii will require additional investigation because of the steep slopes and deep water tables in the DOW Chemical Company will research: a) additional pineapple regions. hydrogeological descriptions of the pineapple growing areas including soil characterizations and the nature of underground springs, and b) existing monitoring programs that may be used as substitutes in this study. will concurrently investigate existing monitoring programs and upon receipt of DOW's research will consider the following alternate options to assess the potential of Telone II to reach ground-water in Hawaii: a) a largescale retrospective study using existing wells, b) a monitoring study of ground-water seeps, c) a soil dissipation study, and d) a feasibility study assessing the potential of 1,3-D to contaminate ground water based on existing literature, modeling, and sampling done to date on existing wells FAB will investigate the potential to help fund financially prohibitive studies through federal and state cooperative agreements.

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	Chemical Undergoing Active Registration Standards Review						Return to H. Toma (Rm 255)						
16	18. RELATED ACTIONS 18. Particle Paragraphical Standard requirement												
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