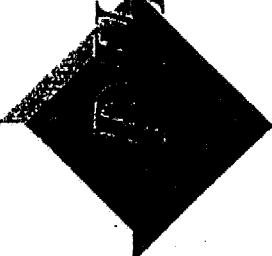




**WASHINGTON WORKS & EPA
RFI PLANNING MEETING**

JUNE 26, 1997

ASH002018



DuPont PERSONNEL

- ❖ **Bill Mancini-DuPont CRG-Program Manager**
- ❖ **Walt Stewart-Site Sr. Environmental Control
Consultant**
- ❖ **Dan Weber-Site Environmental Engineer**
- ❖ **Mike Lukas-DuPont CRG-Principal Engineer**
- ❖ **Andrew Hartten-DuPont CRG-Senior Geo./PM**

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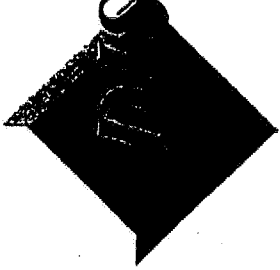
AGENDA

❖ 10:00-10:10	Introduction	(Walt/Bill)
❖ 10:10-10:40	Review 30 Day Response	(Dan)
❖ 10:40-11:10	Current Conditions Summary	(Dan/Andrew)
❖ 11:10-11:20	Break	
❖ 11:20-12:20	RFI W.P. Conceptual Approach	(Mike/Andrew)
❖ 12:20-1:00	Define Path Forward	(All)



- ❖ To review the required scope and schedule for RFI activities

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DISCUSSION TOPICS

- ❖ **List of SWMUs to be addressed in RFI**
- ❖ **Current conditions and VI results**
- ❖ **RFI workplan technical approach and schedule**

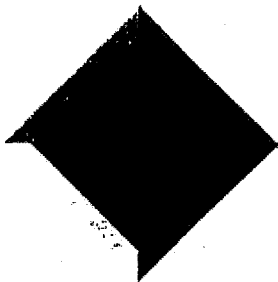
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30-DAY RESPONSE

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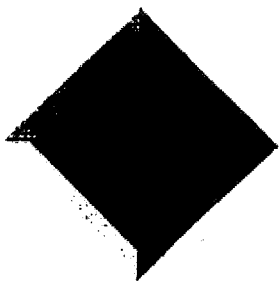
CURRENT CONDITIONS SUMMARY



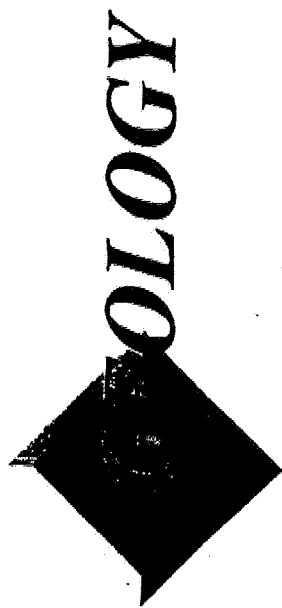
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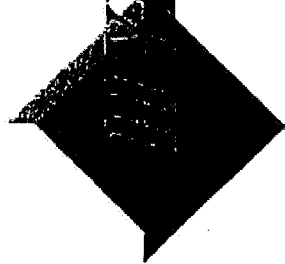
GEOLOGY & HYDROGEOLOGY



ASH002025



- ❖ Simple stratigraphy--Ohio River Terrace
Deposits
- ❖ Fine grained soils near surface and along
riverbank
- ❖ Sand and gravel primary site geologic
unit and aquifer
- ❖ Overlies Permian age bedrock (shale/ss)



DROGEOLOGY

- ❖ Flow direction controlled by groundwater pumping centers
- ❖ Pumping induces recharge--flow into site from river
- ❖ East Well Field 2000 gpm
- ❖ Ranney Well 800-1000 gpm
- ❖ Lubeck 500-700 gpm

WASHINGTON WORKS VI RESULTS

KEY CONSTITUENTS DETECTED IN GROUNDWATER (by SWMU)

Concentration Range (mg/l)

RIVERBANK LANDFILL

Freon 113	.081-3.1
C-8	.052-7.1
Tetrachloroethylene	.019-.22
Chloroform	.005-.006
Arsenic	.007-.38
Mercury	.0005-.028

ANAEROBIC DIGESTION PONDS

Freon 113	.015-4.0
Methylene Chloride	.26-.29
C-8	.025-38.0
Barium	2.9-3.8
Lead	.13-.36

BURNING GROUND

Carbon Tetrachloride	.009-.036
Tetrachloroethylene	.011-.025
Trichloroethylene	.027-.32
Freon 113	.027-.039

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RFI WORKPLAN TECHNICAL APPROACH

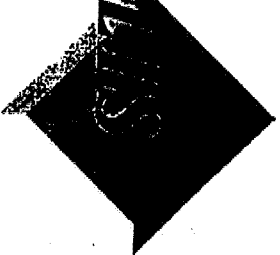
ASH002029

RFI TECHNICAL APPROACH

- ❖ Fully understand hydrogeologic system (i.e., confirm gw capture)
- ❖ Identify key data needs (hydro. & analytical)
- ❖ Meet applicable EPA standard RFI requirements

>> Refine Site Conceptual Model (SCM)

ASH002030



SAFE CONCEPTUAL MODEL

- ❖ Present hypothesis to confirm or refute current understanding
- ❖ Supports risk-based decision making
- ❖ Aids in identifying potential remedial alternatives
- ❖ Focuses RFI activities

RISK-BASED DECISION MAKING

- ❖ Screen VI data against Region III residential RBCs to identify applicable analytical list
- ❖ Development of site-specific RBCs

ASH002032

RFI WORKPLAN TECHNICAL APPROACH

- ❖ **STEP 1-Identify initial data needs (included in workplan)**
- ❖ **STEP 2-Construct groundwater flow model to fully define hydrogeologic system (identify additional data needs)**
- ❖ **STEP 3-Refine site conceptual model to confirm or identify final data needs**
- ❖ **STEP 4-Submit tech. memo to EPA with final RFI data collection points**
- ❖ **STEP 5-Field implementation**

ASH002033

RFI WORKPLAN TABLE OF CONTENTS

- ❖ Introduction
- ❖ Current Conditions (SWMUs,
Geo/Hydro, SCM)
- ❖ RFI Technical Approach
- ❖ Report Preparation
- ❖ References

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REF WORKPLAN- APPENDICES

- ❖ Proj. Management Plan
- ❖ Sampling & Analysis Plan
- ❖ QAPP
- ❖ Data Management Plan
- ❖ HASP
- ❖ Community Relations Plan

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DEI WORKPLAN PATH FORWARD

❖ Submittal date September 26, 1997

ASH002036

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