

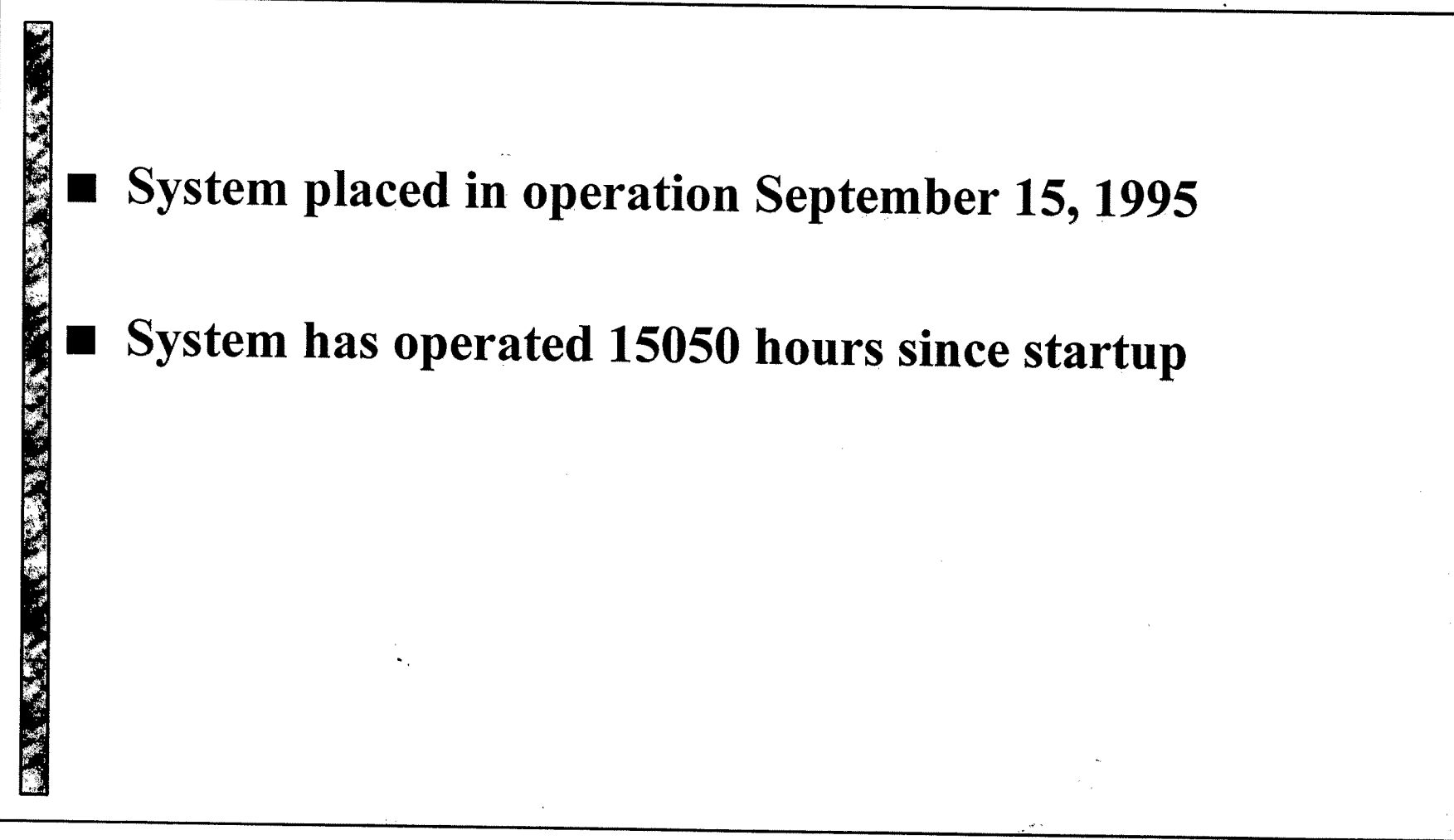
Presentation Overview

Topics to be Covered

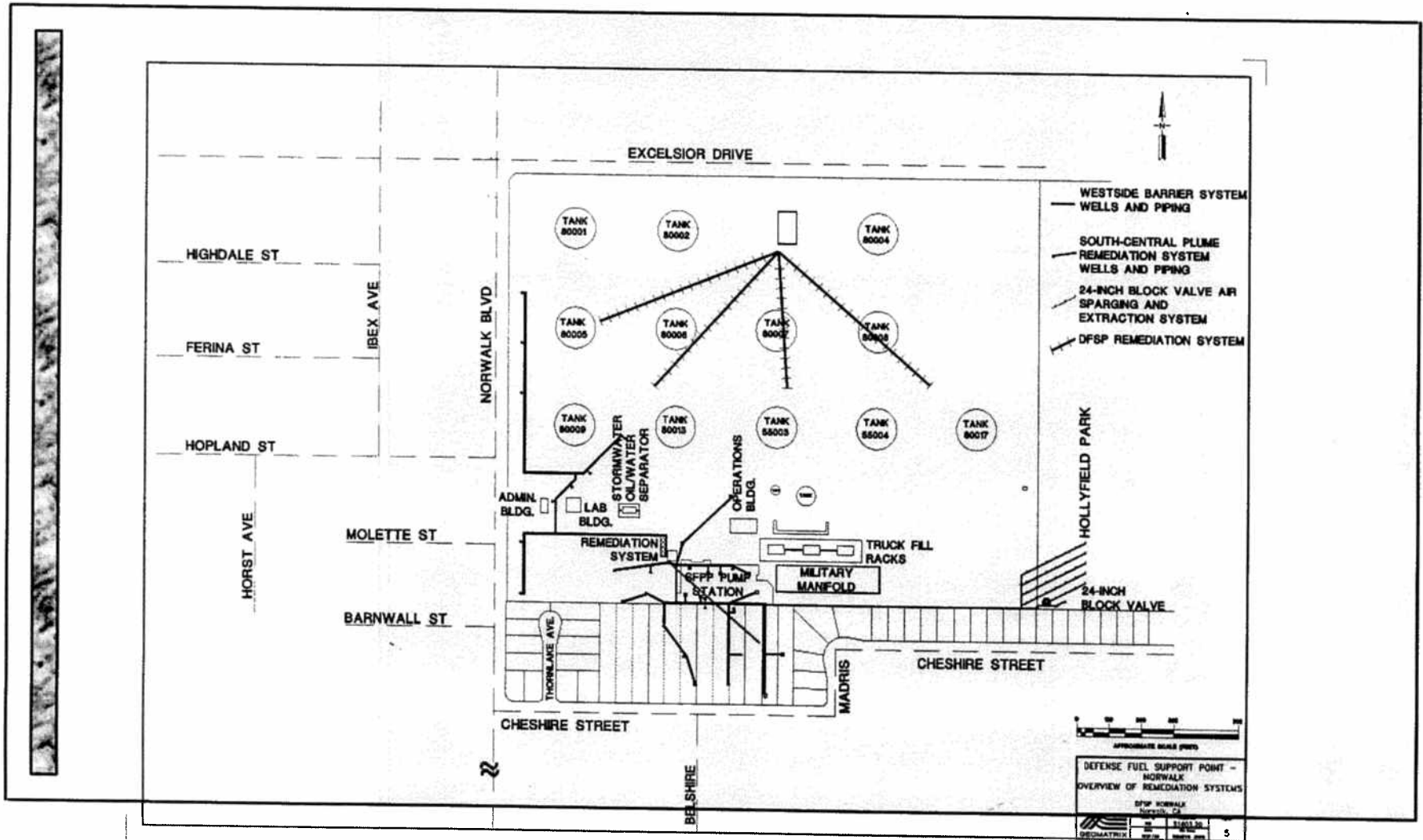
- Remediation Update
- Groundwater Monitoring Update
- OCCS / RBCA Update
- Pressure Testing Update / Tour



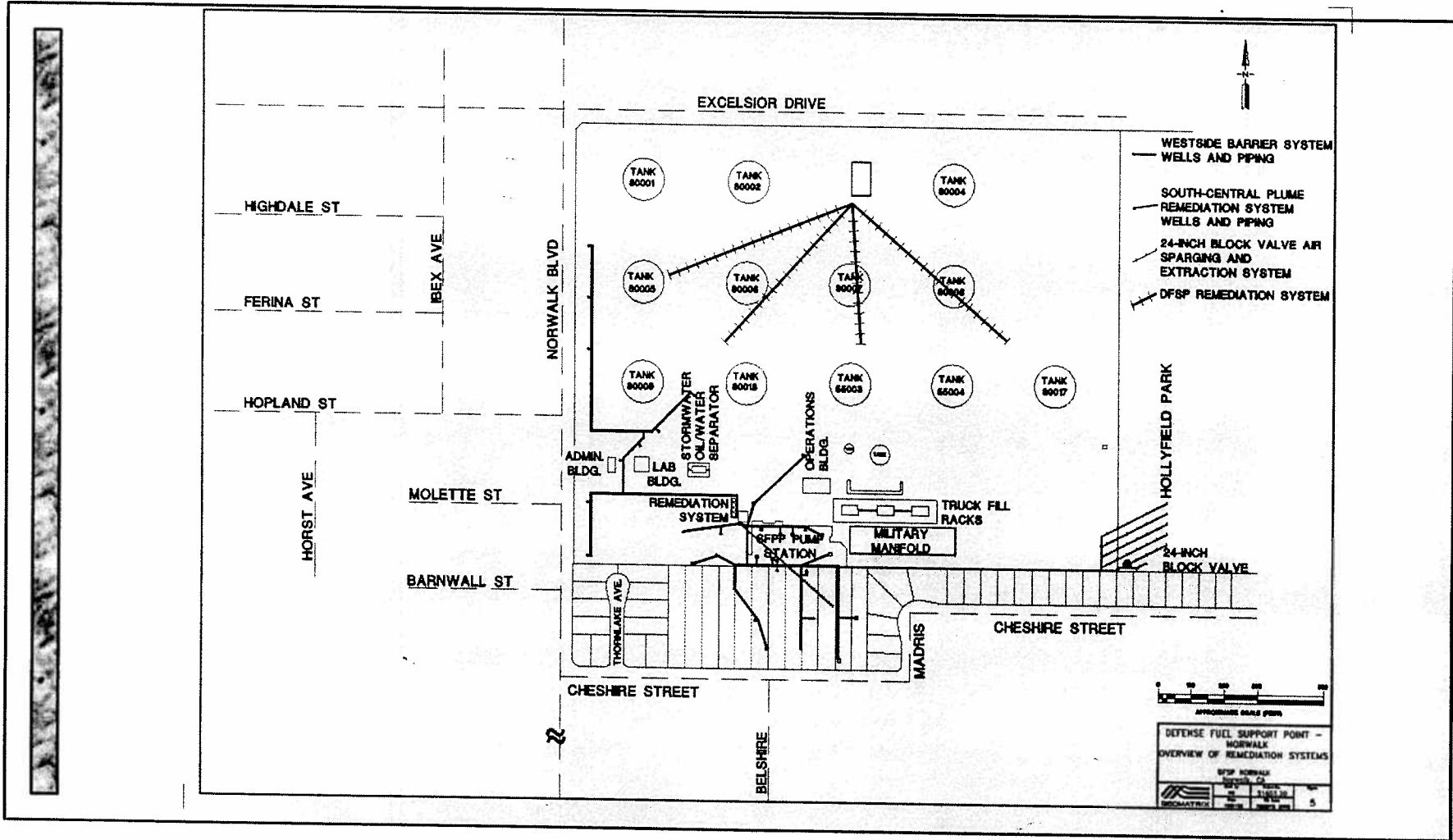
SUMMARY OF REMEDIATION PROGRESS

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- **System placed in operation September 15, 1995**
 - **System has operated 15050 hours since startup**

Map of Current Remediation Systems



Map of Current Remediation Systems



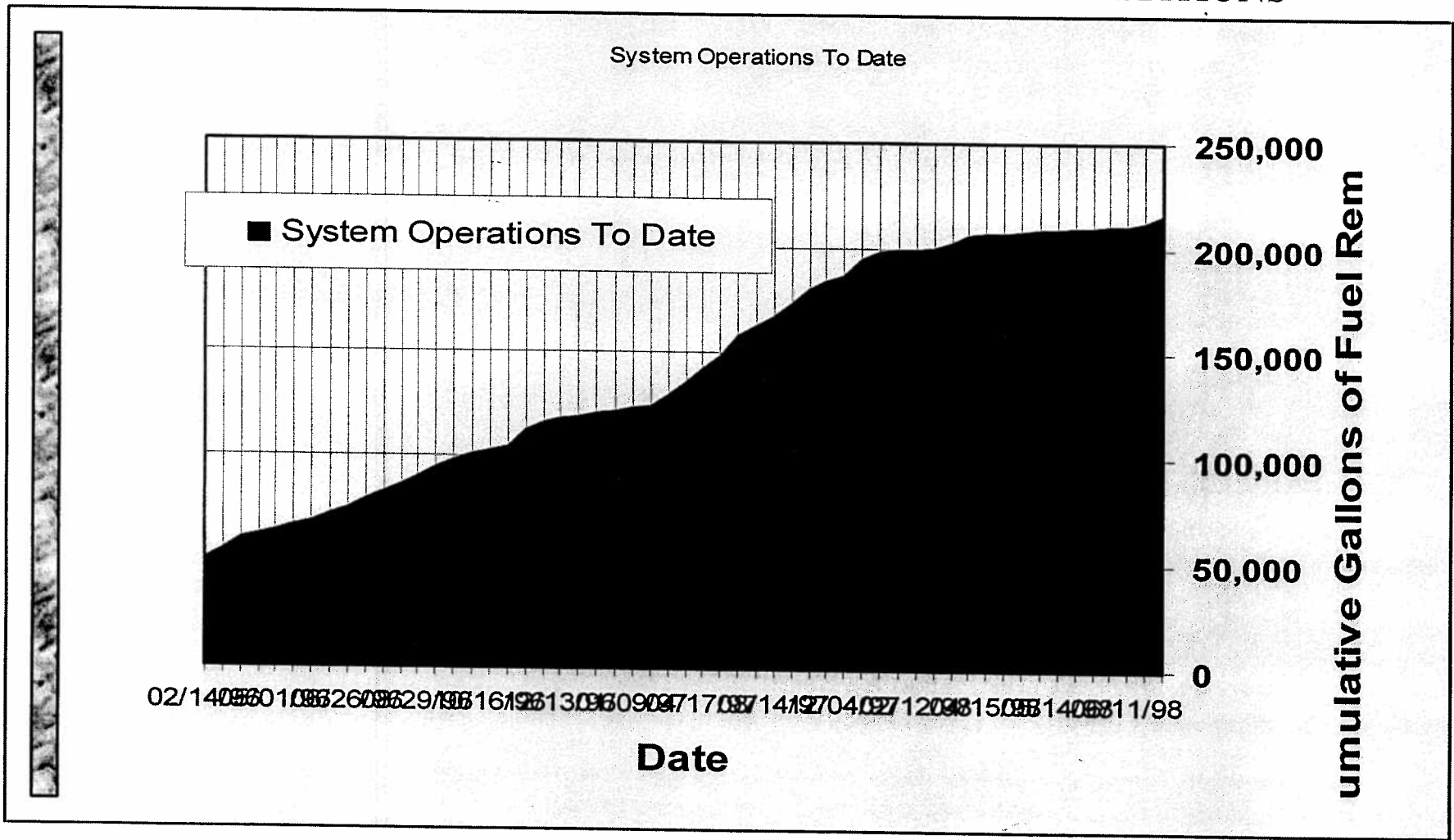
Soil Vapor Extraction System Operations Summary

- **25 Vapor extraction wells online and in use
(3 additional)**
- **Approximately 217,000 gallons equivalent of fuel
removed from soil and destroyed**
- **Approximately 9,000 gallons total of fuel removed and
since April RAB meeting**

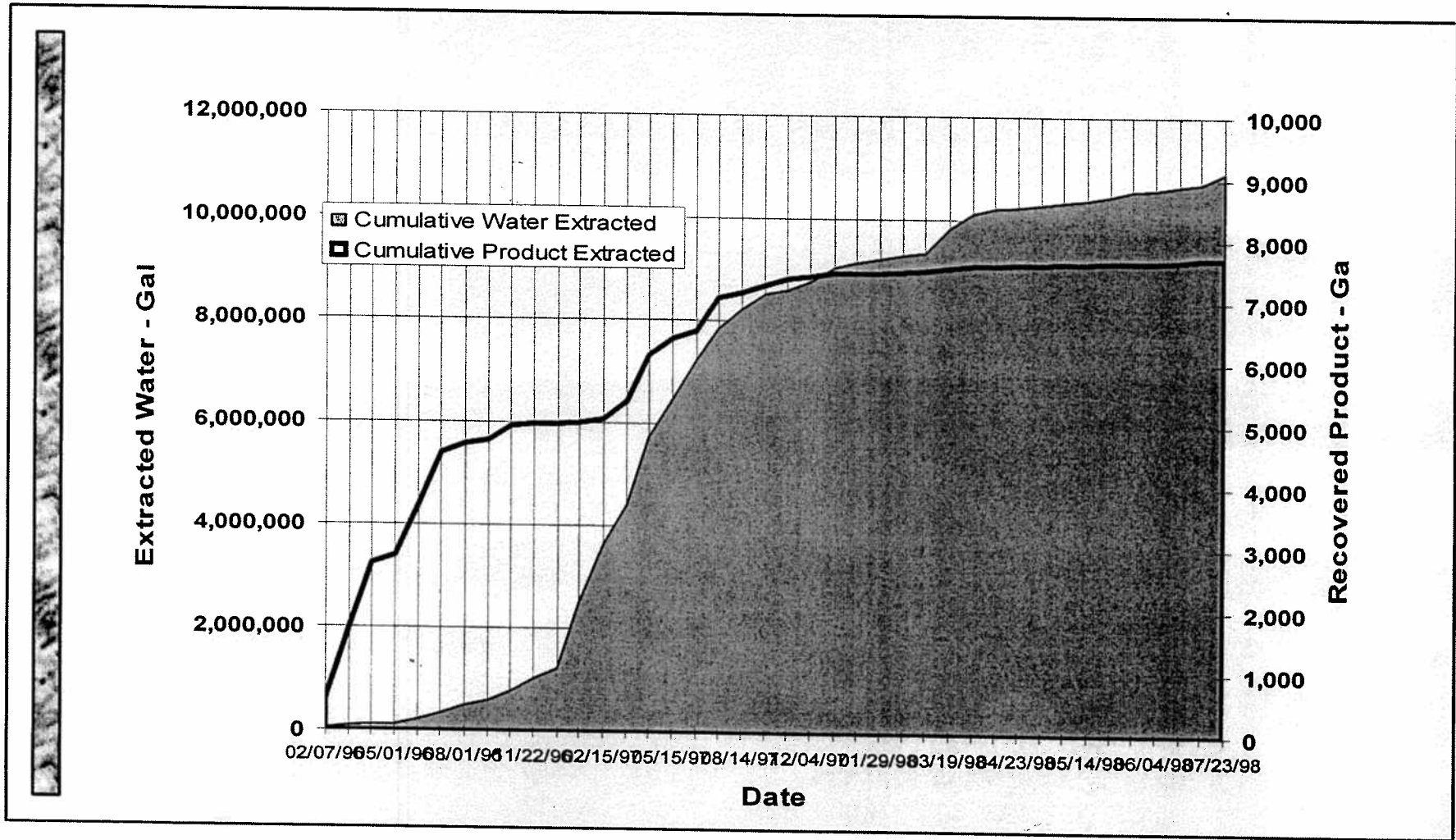
Product Recovery/West Side Barrier System Operations Summary

- **6 Product/groundwater extraction wells online in South/Central Plume area. Replaced 5 of the recovery wells with new wells**
- **9 West Side Barrier wells operating**
- **Approximately 10.9 million gallons of water pumped and treated (0.8 million gallons since April RAB meeting)**
- **Approximately 7700 gallons of liquid fuel recovered**
- **Approximately 130 gallons of liquid fuel recovered since April RAB meeting (30-40 gallons from one new well in the last week)**

DFSP NORWALK - SOUTH CENTRAL PLUME SUMMARY OF VAPOR PHASE EXTRACTION OPERATIONS



DFSP NORWALK SOUTH CENTRAL PLUME AND WEST SIDE BARRIER SYSTEM SUMMARY OF GROUNDWATER AND PRODUCT RECOVERY SYSTEM OPERATIONS



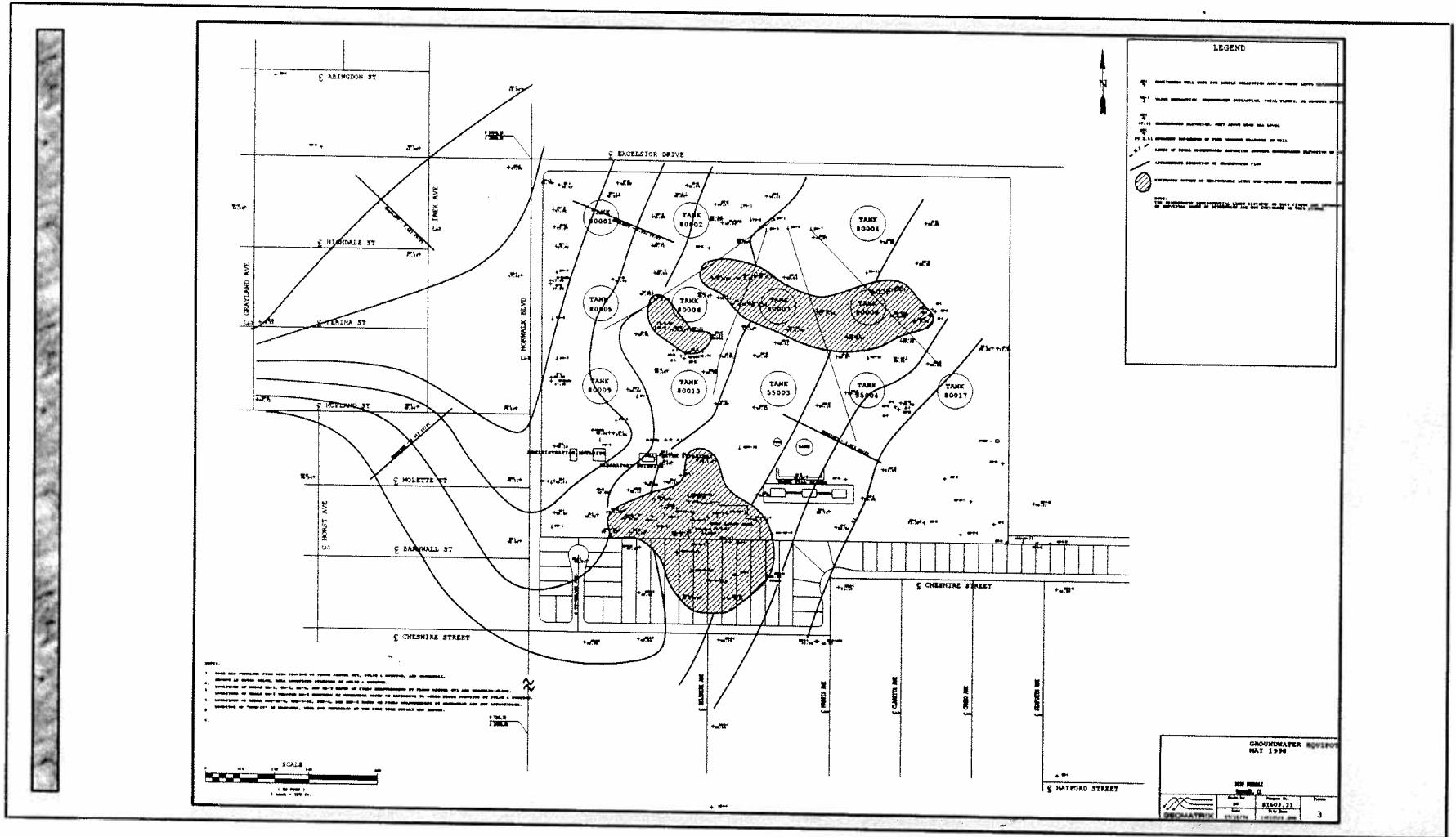
24-Inch Valve Plume System

- No product measured in GMW-36 during the last two sampling rounds.
- TPH and BTEX concentrations generally decreasing in most wells with a few exceptions
- MTBE was detected in wells MW-8, GMW-38, GMW-SF-8, GMW-O-16, GMW-O-18, GMW-36, GMW-O-19, GMW-39. (Detection Limits lowered which affected 3 wells)
- Lower the Air Sparge volume and increase pumping rate at GMW-O-15 to improve recovery

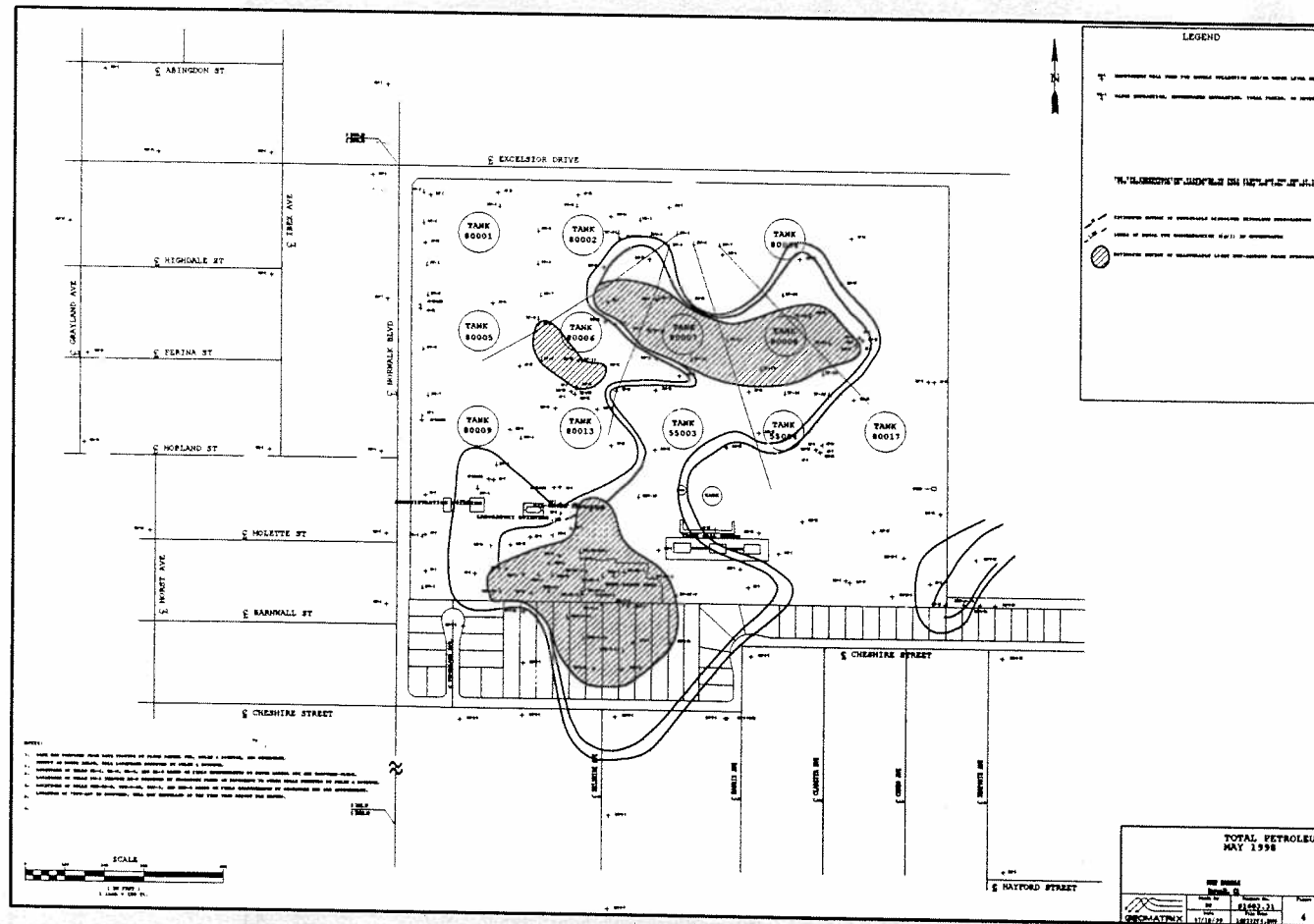
Groundwater Monitoring Update

- The semi-annual monitoring report for May 1998 was completed and distributed
- Kinder Morgan and DFSC have proposed a list of Sentry wells for quarterly monitoring and will begin this sampling in August
- To better monitor efficiency of product recovery, Kinder Morgan has begun gauging select wells on a monthly basis and will report the data in the semi-annual report

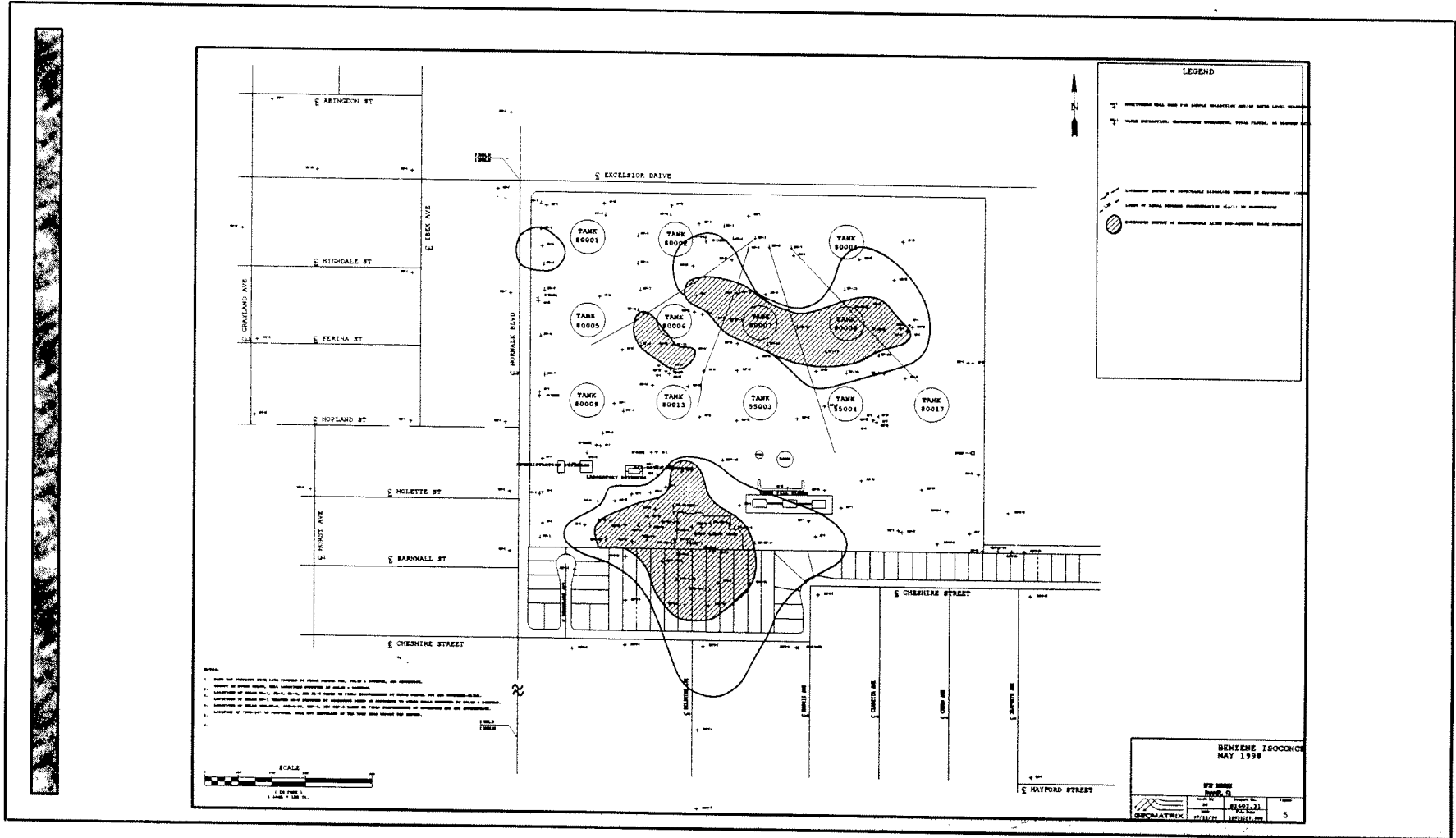
Free Product Plumes



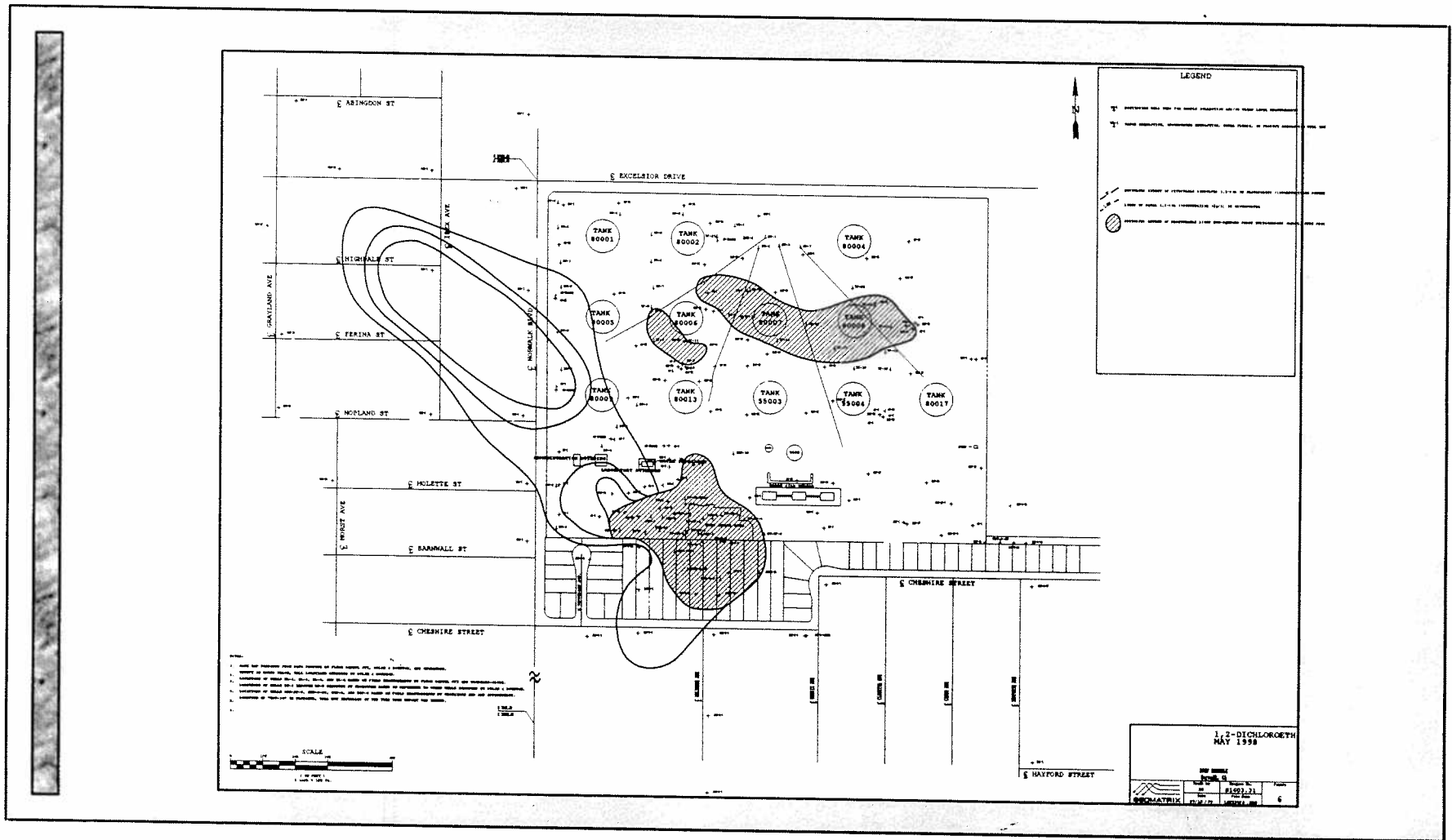
Groundwater Plume-TPH



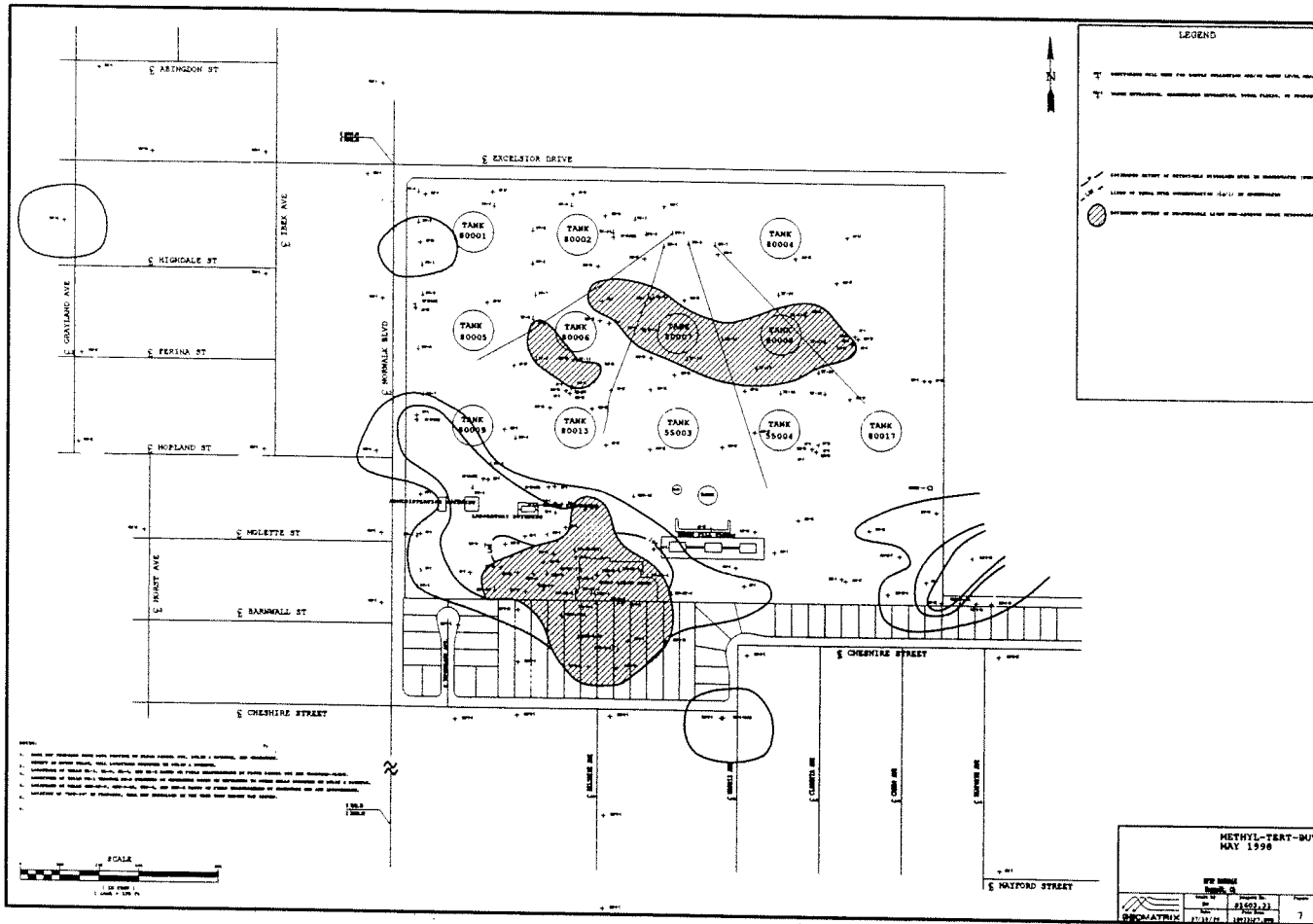
Groundwater Plumes-Benzene



Groundwater Plume-1,2 DCA





Groundwater Plume-MTBE




Enhancements to Remediation System

- Evaluation of Product Recovery Wells
 - Re-drill new extraction wells - Completed
 - Technology Evaluation of in-well product recovery - Pilot installed
- Treatment System Capacity Evaluation
 - Total flow (vapor and liquid)
 - Mobil system for product removal - pilot to begin in 3rd quarter



Enhancements to Remediation System - continued


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- Evaluate Phytoremediation (tree planting) with DE-OLA along the West Side of Facility
 - Determine and Improve flow rate balances from extraction wells (west side barrier / south central plume)
 - Evaluate In-situ bioremediation for BTEX constituents

OCCS Update

- RBCA Workplan completed and Submitted to RWQCB
- Incorporated comments from RAB members
- Pending approval work has been initiated to stay on schedule
- A Meeting of the OCCS Committee will be scheduled to discuss implementation once comments are received from the RWQCB



RBCA Schedule

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- Perform Tasks of RBCA (modeling, review risk assessment, technology evaluation) - Sept. 30
 - Meet with OCCS to discuss data and format of report - mid October
 - Summarize Results and Prepare Draft Report to OCCS Group - November
 - Review Report with OCCS and Prepare presentation for RAB - December
 - Implement RBCA

SFPP Pressure Testing / Leak Reports

- See Letter to RWQCB
- 1998 Pressure Test Results Distributed
- Schedule Site Tour and Discussion of Pressure Test Procedures and Results - August

Table for Additional Sampling at Norwalk Facility

Sentry Wells	Product Wells
PW-2	GMW-23
PW-3	GMW-25
WCW-1	GMW-O-10
WCW-2	GMW-O-12
WCW-3	GMW-O-13
MW-14	GMW-O-14
MW-19	MW-O-3
MW-22	MW-O-4
GMW-O-1	
GMW-O-3	
GMW-O-5	

* *Sentry Wells – Sampled Quarterly*

* *Product Wells – Sampled Monthly*