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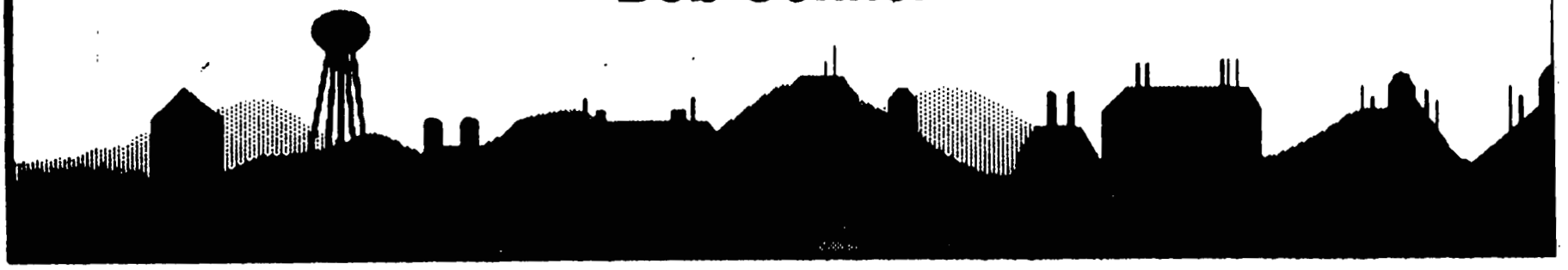
FMPC COMMUNITY MEETING INTERIM CLEANUP ACTIONS MAY 15, 1989

05/15/89

WMCO/PUBLIC
22
PRESENTATION

FMPC Community Meeting
Interim Cleanup Actions

Bob Conner

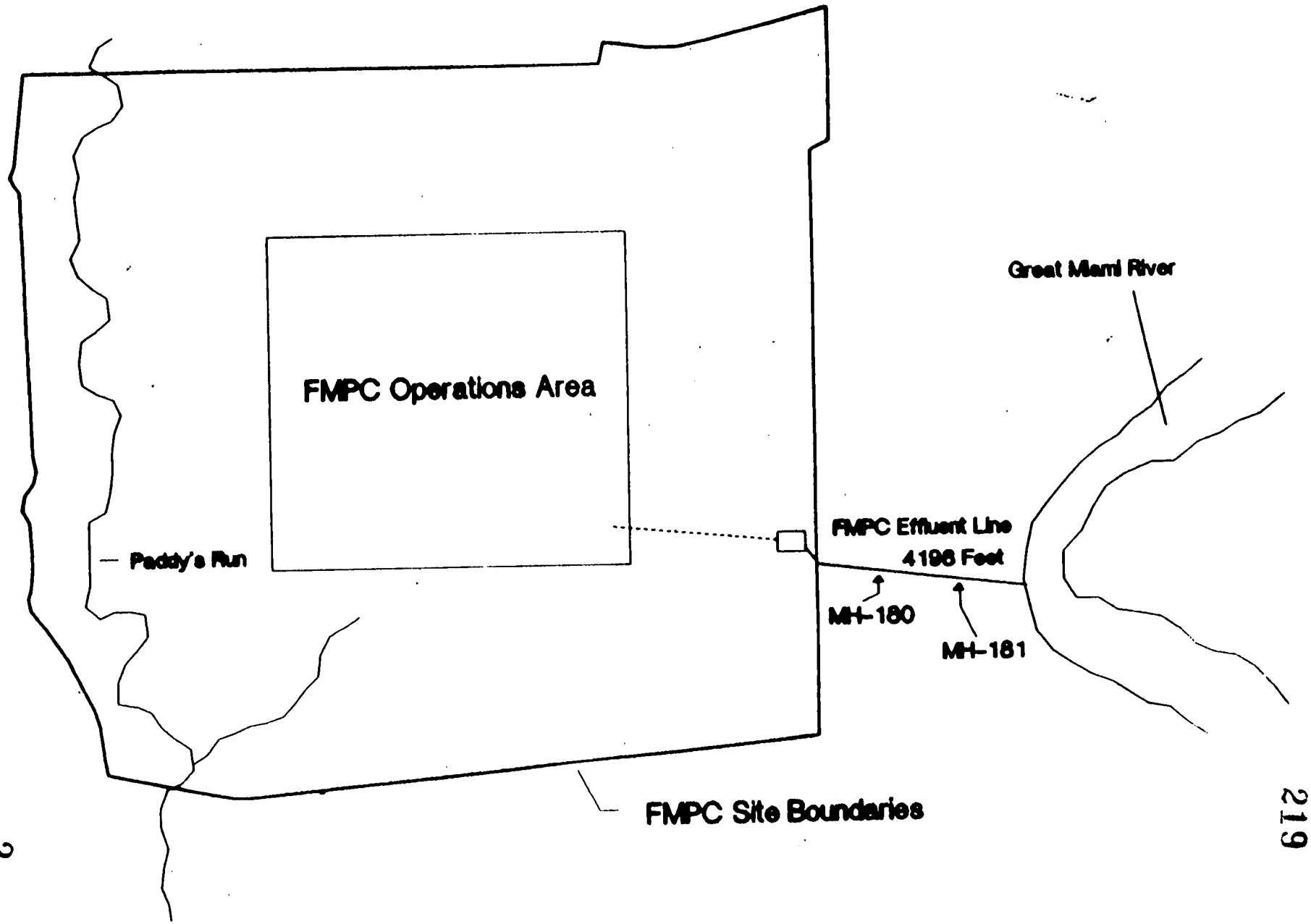


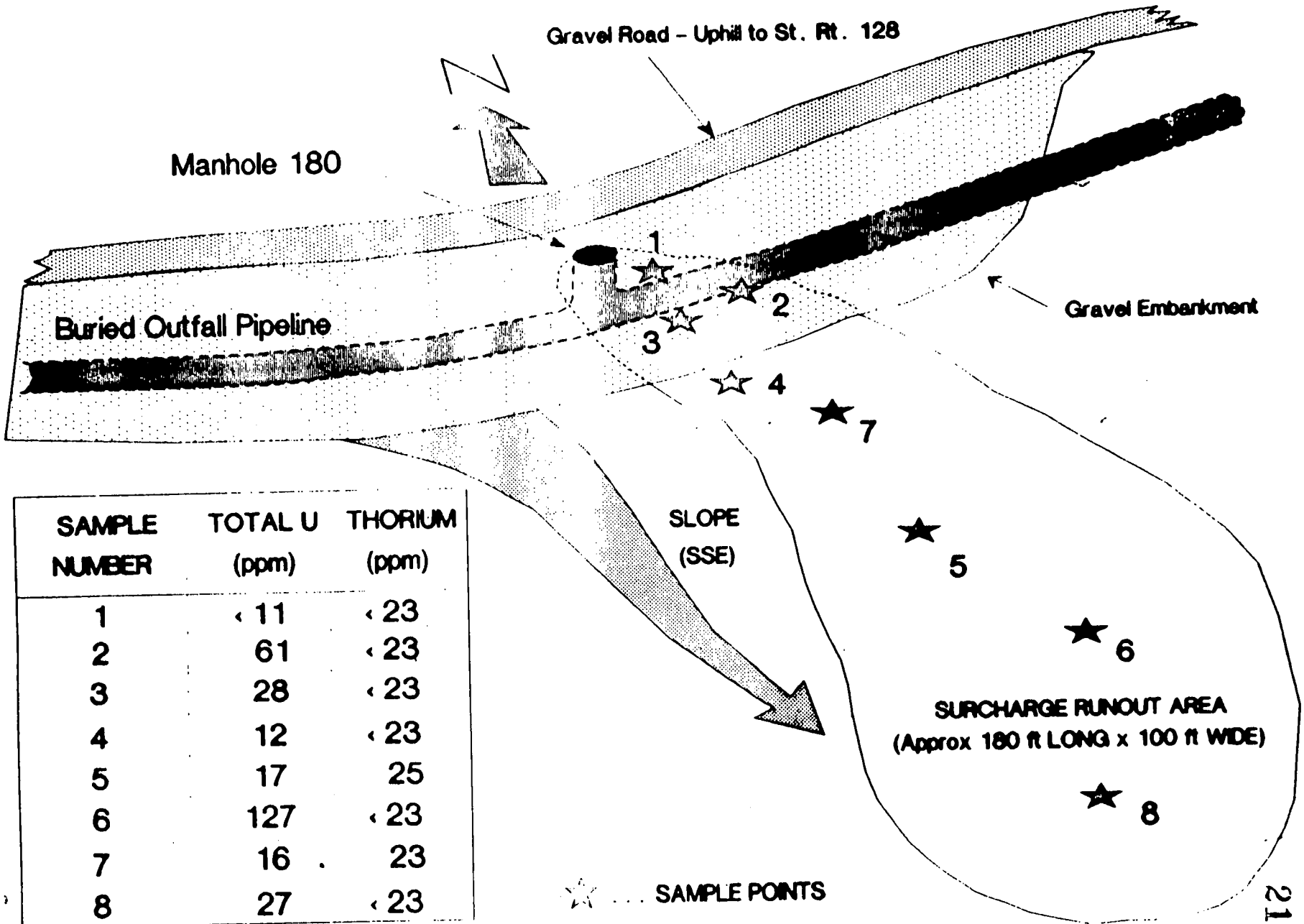
May 15, 1989

Feed Materials Production Center

EFFLUENT LINE OVERFLOW

FMPC





SAMPLE NUMBER	TOTAL U (ppm)	THORIUM (ppm)
1	< 11	< 23
2	61	< 23
3	28	< 23
4	12	< 23
5	17	25
6	127	< 23
7	16	23
8	27	< 23

RI/FS PROCESS

FMPC

- Remedial Investigation (RI)
  - -- Characterize Environment
- Feasibility Study (FS)
  - -- Identify Corrective Actions

CLEANUP ACTIVITIES

FMPC

Final
Remedial Actions

Removal
Actions

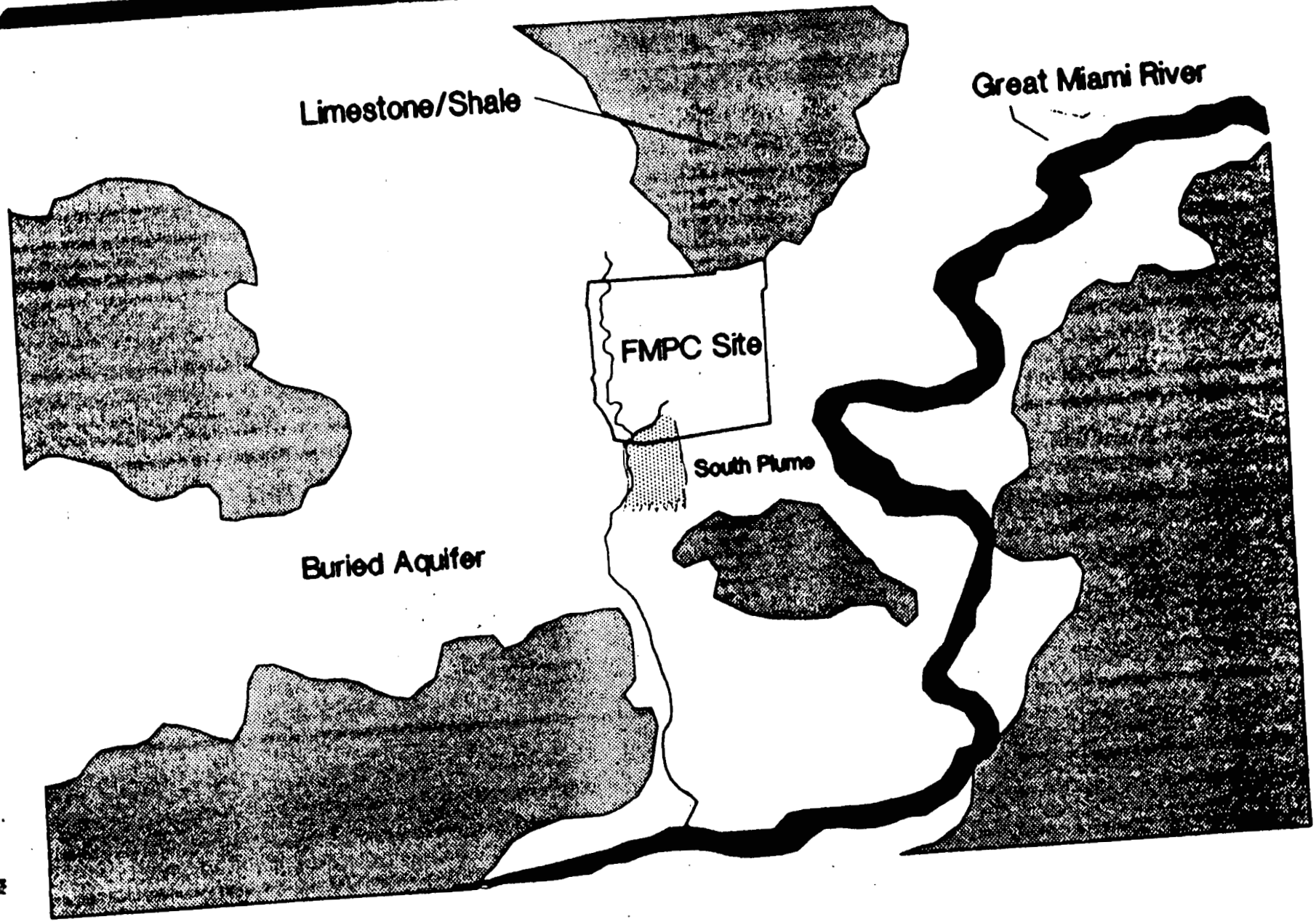
REMOVAL ACTION PROJECTS

FMPC

- South Plume
- Facilities Ground Water
- Storm Water Runoff Waste Storage Area
- K – 65 Silos

EFFLUENT LINE OVERFLOW

FMPC

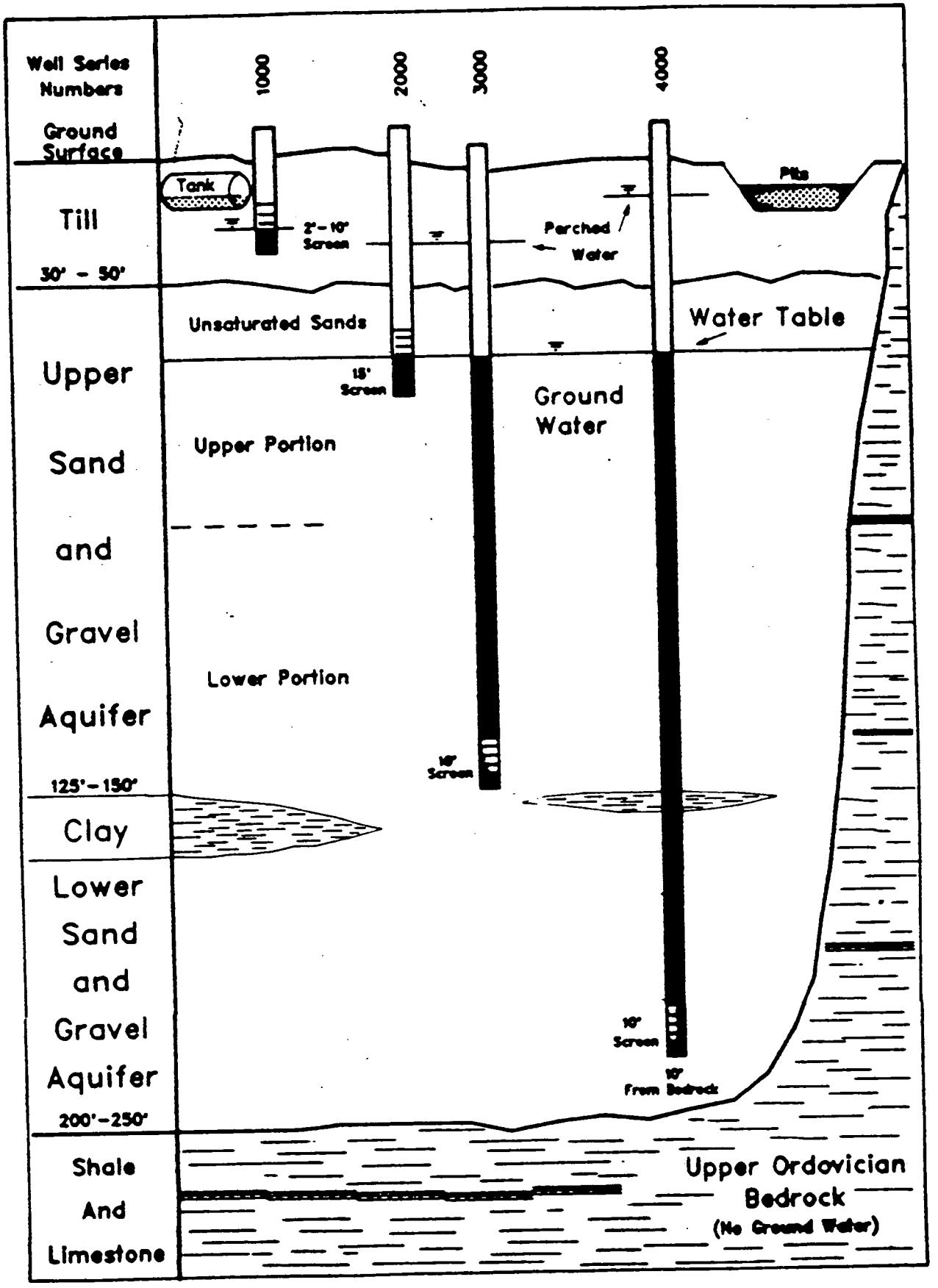


REMOVAL ACTION PROCESS

FMPC

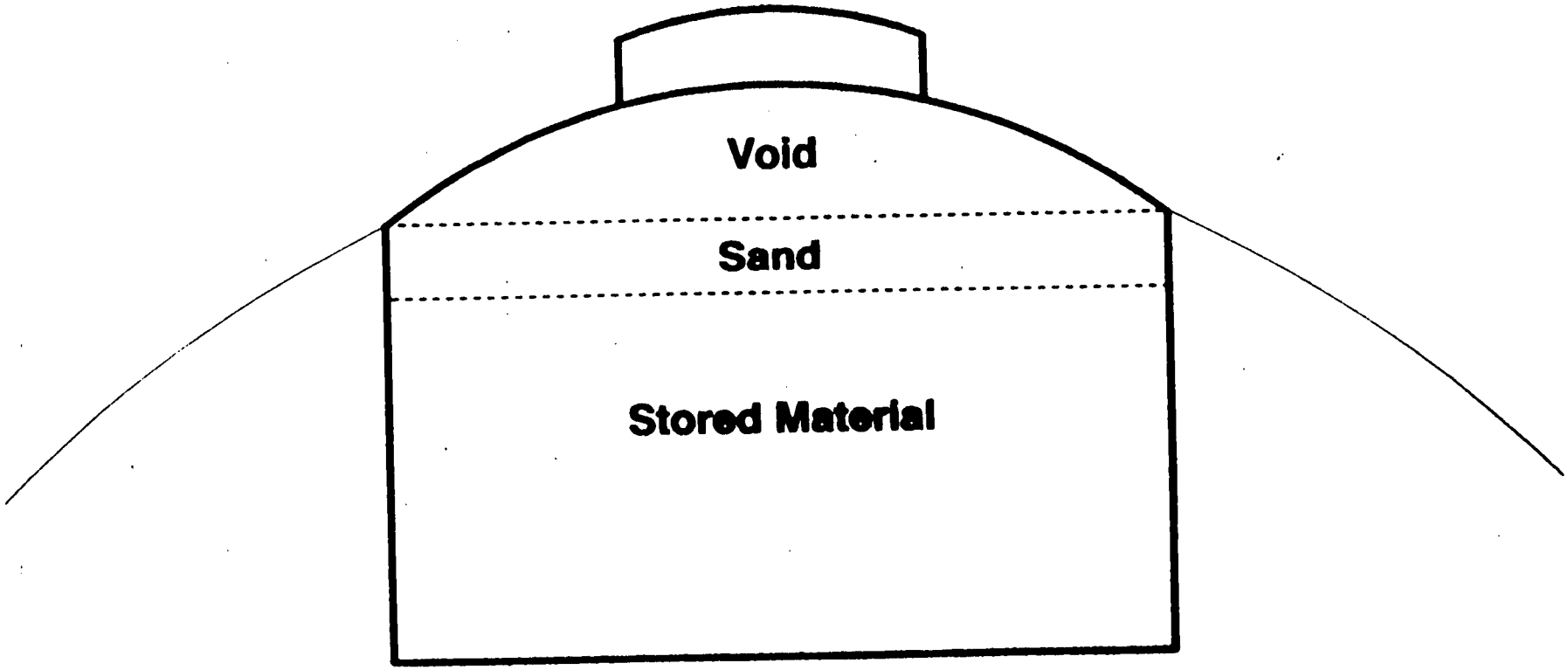
- Environmental Investigation
- Alternatives Evaluation
- Engineering Design
- Execute Cleanup

FMPC RI/FS
Ground Water Monitoring Wells



K-65 REMOVAL ACTION

FMPC



FEED MATERIALS PRODUCTION CENTER

INTERIM CLEANUP SUMMARY

FS

RI

FMPC

• South Ground Water	Evaluating Alternatives
• Facilities Ground Water	Install Wells, Pump & Treat
• Storm Water Runoff	Install Collection System
• K - 65 Silos	Install Sand Fill

COMMUNITY INTERFACE

FMPC

- Administrative Record
- Newspaper Announcements
- Community Meetings

EFFLUENT LINE OVERFLOW

FMPC

STATUS

• First Round Sampling	- Complete
• Walk Over Surveys	- Complete
• Soil Sampling	- In Progress
• Manhole Cover Repair	- In Progress
• Soils Cleanup	- In Design

BIOLOGICAL RESULTS: RADIONUCLIDE CONCENTRATIONS

FS RI

FMPC

Garden Produce: FMPC vicinity sampling results comparable to background area near Brookville, Indiana

Vegetation:

- Highest levels were found:
  - Near the old incinerator site
  - Below the fly ash pile
  - In the northeast portion of the site.
- Concentrations were lower as the distance from FMPC increased.
- Results are consistent with soil sampling.

Fish:

- Great Miami River -- No detectable levels.
- Paddy's Run -- Low, but detectable levels in 20% of samples.

METHODS TO ACCELERATE SCHEDULE

FMPC

- Implement "Removal Actions"
- Divide Site Into Distinct Operable Units

FS
RI

OPERABLE UNITS STATUS AS OF MAY 15, 1989

FMPC

OPERABLE UNITS \ FS STEPS	DEVELOP ALTERNATIVES	SCREEN ALTERNATIVES	ANALYZE ALTERNATIVES
OPERABLE UNIT 1 WASTE STORAGE AREA			
OPERABLE UNIT 2 SOLID WASTE AREAS			
OPERABLE UNIT 3 FACILITIES/SUSPECT AREAS			
OPERABLE UNIT 4 K-65 SILOS			
OPERABLE UNIT 5 ENVIRONMENTAL MEDIA			
OPERABLE UNIT 6 SOUTH PLUME			

FS

RI

PRELIMINARY ALTERNATIVES
OPERABLE UNIT 4
K-65 SILOS

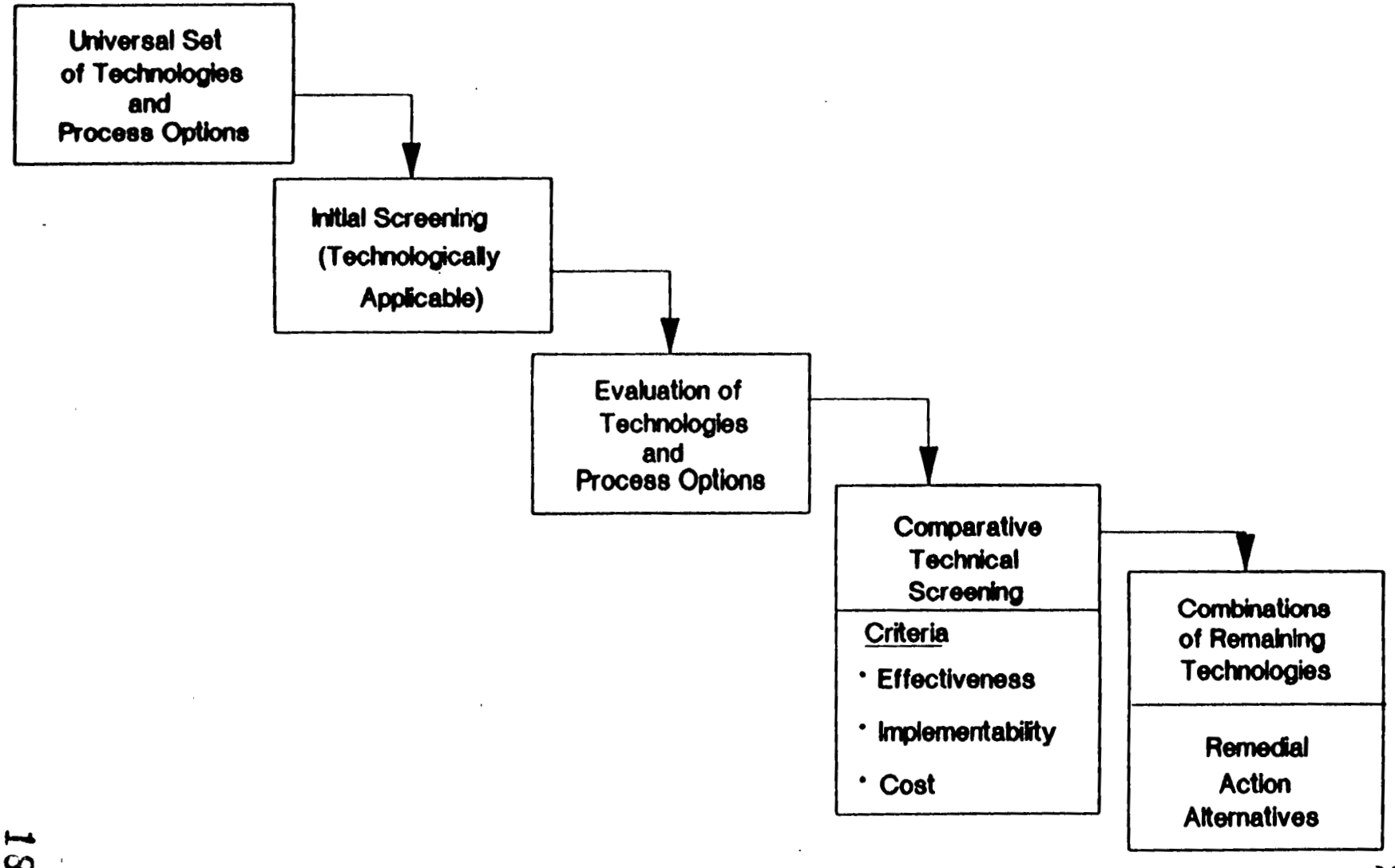
FMPC

- No Action
- Non-Removal: Silo Isolation and Material Stabilization (Including Vitrification as an Option)
- Removal of Waste, Treatment, and On-Site Disposal
- Removal of Waste, Treatment, and Off-Site Disposal
- Removal of Waste, Material Separation, and On-Site Disposal
- Removal of Waste, Material Separation, and Off-Site Disposal

FS
RI

TECHNICAL APPROACH
DEVELOPMENT OF ALTERNATIVES

FMPC



ALTERNATIVE SCREENING CRITERIA

Effectiveness

- Protection of Human Health and Environment
- Reduction in Toxicity, Mobility, or Volume of Waste

Implementability

- Technical
- Administrative

Cost (Secondary Factor)

- Capital Costs
- Operation and Maintenance Costs

SCREENING OF ALTERNATIVES STATUS

FS
RI

FMPC

- K-65 Silos and South Plume. Expected Completion for Agency Review:
  - K-65 Silos: Summer 1989
  - South Plume: Late Spring 1989
- Waste Storage Units: Initiate in Late Spring 1989
- Solid Waste Units: Initiate in Summer 1989
- Facilities/Suspect Areas & Environmental Media: Initiate in 1990

DETAILED ANALYSIS OF ALTERNATIVES STATUS

FS

RI

FMPC

- South Plume: Initiate in Early Summer 1989
- K-65 Silos: Initiate in Summer 1989
- Waste Storage Units & Solid Waste Units: Initiate in Fall 1989
- Facilities/Suspect Areas & Environmental Media: Initiate in 1990

FS
RI

DETAILED ANALYSIS OF ALTERNATIVES
EVALUATION CRITERIA

FMPC

- Protection of Human Health and the Environment
- Compliance with Applicable or Relevant and Appropriate Requirements
- Long-Term Effectiveness and Performance
- Reduction of Toxicity, Mobility, and Volume
- Short-Term Effectiveness
- Implementability
- Cost
- State Acceptance
- Community Acceptance