March 2, 2011

Remedial Investigation Results

SCOVILL INDUSTRIAL LANDFILL

SDMS DocID 474390

MEETING AGENDA

- Welcome & Meeting Purpose
- Superfund Roadmap: where we are
- Remedial Investigation
  - Purpose
  - Activities
  - Findings
- Superfund Roadmap: what comes next
- Questions & Answers

The Superfund Process:
from Discovery *to* Cleanup

Scovill Industrial Landfill

REMEDIAL INVESTIGATION

REMEDIAL INVESTIGATION

Activities:

- Geophysical Survey
- Utility Line Identification
- Surface Water Dye Study
- Storm Sewer Survey
- Historical Aerial Photography Evaluation

REMEDIAL INVESTIGATION, *CONTINUED*

Activities:

- On -Site and Off-Site Environmental Sampling:
  - Surface Soil
  - Subsurface Soil
  - Groundwater
  - Sediment
  - Surface Water

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REMEDIAL INVESTIGATION FINDINGS

HISTORICAL FILL ACTIVITIES

1934

ALTYRE ST
MONROE AVENUE
RAMONA AVE
DALTON AVE
HINDSDALE AVE
SOUTHWICK AVE
DONALD TERRACE
NEWBURY STREET
ACADEMY AVE
GATES AVE
ACADEMY AVENUE
BRONX AVE
RADCLIFFE AVE
ATWOOD AVENUE
VIRGINIA AVENUE
STORE AVENUE
DUNBAR STREET
NEWMAN AVENUE
MERIDEN ROAD

1941

ALTYRE ST
MONROE AVENUE
RAMONA AVE
DALTON AVE
HINDSDALE AVE
SOUTHWICK AVE
DONALD TERRACE
NEWBURY STREET
ACADEMY AVE
GATES AVE
ACADEMY AVENUE
BRONX AVE
RADCLIFFE AVE
ATWOOD AVENUE
VIRGINIA AVENUE
STORE AVENUE
DUNBAR STREET
NEWMAN AVENUE
MERIDEN ROAD

1961

ALTYRE ST.
MONROE AVENUE
RAMONA AVE.
DALTON AVE.
HINDSDALE AVE.
SOUTHWICK AVE.
DONALD TERRACE
NEWBURY STREET
ACADEMY AVE.
GATES AVE.
BRONX AVE.
RADCLIFFE AVE.
ATWOOD AVENUE
VIRGINIA AVENUE
STORE AVENUE
DUNBAR STREET
NEWMAN AVENUE
MERIDEN ROAD

1963

EPA ESD Historical Photographic Analysis stated that this light-colored area was snow and ice.
ALTYRE ST.
MONROE AVENUE
RAMONA AVE.
DALTON AVE.
HINDSDALE AVE.
SOUTHWICK AVE.
DONALD TERRACE
NEWBURY STREET
ACADEMY AVE.
GATES AVE.
BRONX AVE.
RADCLIFFE AVE.
ATWOOD AVENUE
VIRGINIA AVENUE
STORE AVENUE
DUNBAR STREET
NEWMAN AVENUE
MERIDEN ROAD

1970

Calabrese clearing and grading activities
Calabrese condo complex construction
(area is elevated relative to areas east and south
Calabrese placement of fill materials and spreading
NEWBURY STREET
ACADEMY AVE
ACADEMY AVENUE
RADCLIFFE AVE
STORE AVENUE
MONROE AVENUE
J
E1
E2
E3
H
D1
I

1975

NEWBURY STREET
ACADEMY AVE.
ACADEMY AVENUE
Calabrese clearing and grading activities
Calabrese condo complex construction
(area is elevated relative to areas east and south
Calabrese placement of fill materials and spreading
J
RADCLIFFE AVE.
E3
MONROE AVENUE
STORE AVENUE
E2
E1
I
D1
H

1975

ES AVE.
ACADEMY AVE.
ACADEMY AVENUE
NEWBURY STREET
RADCLIFFE AVE.
J
E3
E2
E1
I
H
D1
STORE AVENUE
DUNBAR
MONROE AVENUE
ACADEMY

1979

ES AVE.
ACADEMY AVE.
NEWBURY STREET
ACADEMY AVENUE
J
RADCLIFFE AVE.
E3
ATWO
ACADEMY AVE
STORE AVENUE
E2
E1
I
D1
H
DUNBAR

1979

ALTYRE ST.
MONROE AVENUE
RAMONA AVE.
DALTON AVE.
HINDSDALE AVE.
SOUTHWICK AVE.
DONALD TERRACE
MONROE AVENUE
MONROE AVENUE
MONROE AVENUE
MERIDEN ROAD
NEWBURY STREET
ACADEMY AVE.
ACADEMY AVENUE
GATES AVE.
BROOK AVE.
RADCLIFFE AVE.
RADCLIFFE AVE.
ANWOOD AVENUE
ACADEMY AVENUE
VIRGINIA AVENUE
STORE AVENUE
STORE AVENUE
DUNBAR STREET
NEWMAN AVENUE
MERIDEN ROAD
MERIDEN ROAD
J
E3
E2
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I
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F
D3
G

2000

REVISED SITE BOUNDARY

ENVIRONMENTAL SAMPLING

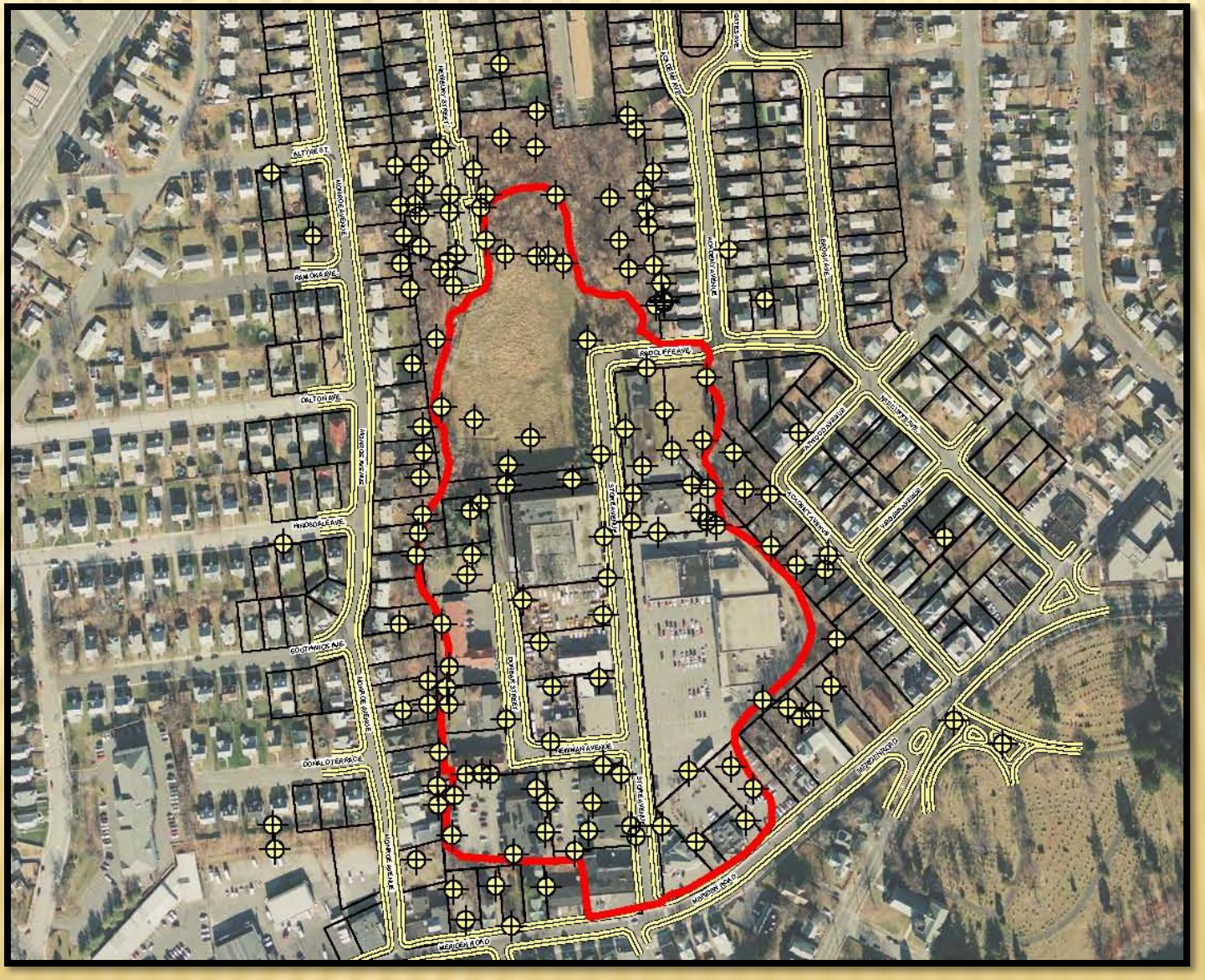
SEDIMENT & SURFACE WATER

SEDIMENT & SURFACE WATER FINDINGS

Found at Low Levels:

- Polycyclic Aromatic Hydrocarbons (PAHs)
- Metals
- Volatile Organic Compounds (VOCs)
- Polychlorinated Biphenyls (PCBs) – at one location

SURFACE SOIL SAMPLES



SUBSURFACE SOIL SAMPLES

SURFACE & SUBSURFACE SOIL FINDINGS

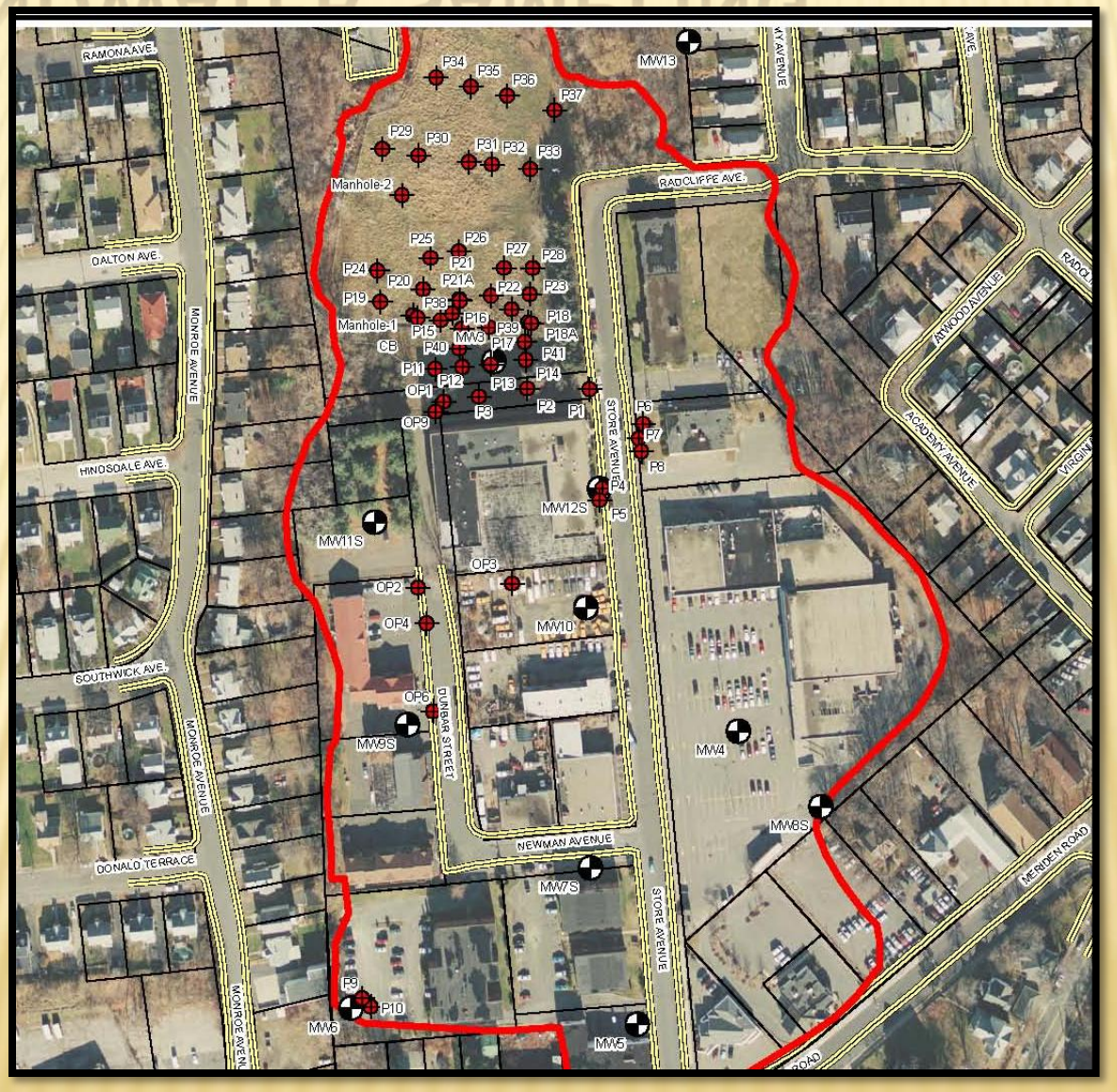
Main Contaminants Detected:

- Polycyclic Aromatic Hydrocarbons (PAHs)
- Metals
- Polychlorinated Biphenyls (PCBs)

Contaminants Detected at Low Levels:

- Dioxins
- Volatile Organic Compounds (VOCs)

GROUNDWATER SAMPLING



GROUNDWATER PROFILE FINDINGS

- Volatile Organic Compounds (VOCs) found in some isolated locations

GROUNDWATER FINDINGS

Main Contaminants Detected:

- Polycyclic Aromatic Hydrocarbons (PAHs)
- Metals

Contaminant Detected at Low Levels:

- Volatile Organic Compounds (VOCs)
- Polychlorinated Biphenyls (PCBs)

MAIN CONTAMINANTS DETECTED

Polycyclic Aromatic Hydrocarbons (PAHs)

- Group of over 100 chemicals
- Formed during incomplete burning of organics
- Can cause harmful effects on skin, immune and reproductive systems of animals
- Some people with high exposure developed skin & lung cancer

MAIN CONTAMINANTS DETECTED

Metals

- High exposure levels can cause health impacts
- Breathing metals in dust particles /fumes: lung, nose or throat irritation possible
- Touching or eating metals: skin irritation & stomach & intestinal problems possible
- Breathing high levels for a long time: lung cancer possible
- Lead harmful to children's mental & physical development & affect adult central nervous, kidney & immune systems

MAIN CONTAMINANTS DETECTED

Polychlorinated Biphenyls (PCBs)

- Man-made chemicals that were used in electrical manufacturing
- At very high levels may cause nose and lung irritation, cancer and skin rashes
- Eating PCB-contaminated fish may cause learning problems in developing fetus

EXPOSURE PATHWAYS

- Exposure can occur when people eat, drink, breathe or have direct skin contact with landfill waste material.

- At present, much of landfill material is covered either with a building, paved road, parking lot, or grass.

POTENTIAL RISK

- No immediate public health risk because direct contact with landfill waste is unlikely.
- Digging, gardening or other activities that might expose landfill material should not occur.

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NEXT STEPS

The Superfund Process:
from Discovery *to* Cleanup

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QUESTIONS & ANSWERS