Proposed Remedial Action Plans

Photocircuits and Pall Sites
Operable Unit(s) 2

Public Meeting
Glen Cove City Hall
9-13 Glen Street
Glen Cove, NY

February 28, 2013
7 - 9 p.m.

NYS Department of Environmental Conservation

Meeting Agenda

- Introduction – Bill Fonda
- RI/FS Summary – Joseph Jones
- Human Exposure Pathways – Sharon McLelland
- Proposed Remedial Action Plans – Joseph Jones
- Question & Answer Moderator – Bill Fonda

Photocircuits and Pall Sites

Photocircuits Corporation
Site No. 130009
45 Sea Cliff Ave
City of Glen Cove
Nassau County
New York

Pall Corporation
Site No. 130053B
30-36 Sea Cliff Ave
City of Glen Cove
Nassau County
New York

Photocircuits and Pall Operable Unit Definitions

- Each site is divided into two operable units
- Operable Unit 1 for each site addresses on-site soils and shallower on- and off-site groundwater
- Operable Unit 2 for each site addresses deeper on- and off-site groundwater

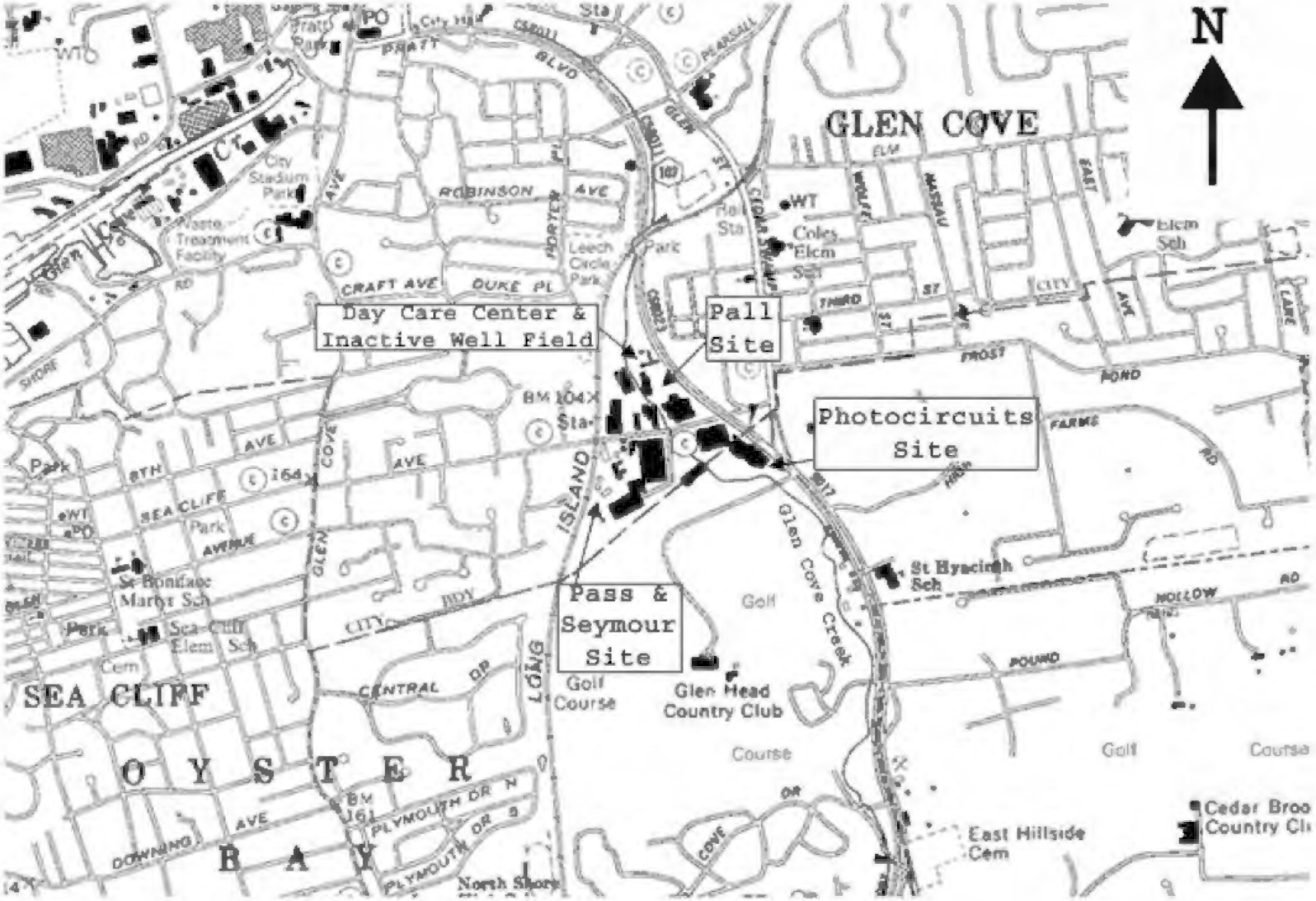

Figure 1: Site Location Map

Photocircuits Site Description

- 45 Sea Cliff Avenue, Glen Cove, Nassau County, in the Seacliff Avenue Industrial Area
- Contains several abandoned buildings and is about 10 acres
- Pall site located north (downgradient) across Sea Cliff Avenue. Pass and Seymour site located west of Photocircuits. Photocircuits is bounded by Glen Cove Arterial on the east, and by a golf course to the south

Photocircuits Site History

- Site developed in 1955, and used in the manufacture of printed circuit boards starting in 1971
- Previous tenants include Powers Chemco and Kollmorgen Corp
- Site listed as Class 2 on Registry of Inactive Hazardous Waste Disposal Sites in 1995
- Site currently unoccupied with buildings in disrepair

Pall Site Description

- 30-36 Sea Cliff Avenue, Glen Cove, Nassau County, in the Seacliff Avenue Industrial Area
- Contains one large and several small single story buildings, and is about 4 ½ acres
- Photocircuits site located south (upgradient) across Sea Cliff Avenue. Carney Street Well Field and daycare center located north of Pall. Pall is bounded by Glen Cove Arterial on the east and Glen Cove Creek to the west

Pall Site History

- Pall manufactured filtration products and stored solvents at the site
- 30 Sea Cliff Ave built 1918, used by Pall from 1953 to 1999, 36 Sea Cliff Ave used by Pall between 1958 and 1971
- Site listed as Class 2 on Registry of Inactive Hazardous Waste Disposal Sites in 1996
- 30 Sea Cliff Ave now unoccupied, 36 Sea Cliff Ave occupied

Area Geology and Hydrogeology

- Upper Glacial Aquifer composed of stratified beds of fine to coarse sand and gravel with some lenses of silt and clay extending to depth of about 200 ft bgs
- Port Washington Confining Unit extends about 100 ft below the Upper Glacial Aquifer
- Magothy (intermediate) and Lloyd (deep) aquifers underlie the Port Washington Confining Unit
- Groundwater flow generally NNW, and water table about 4 ft bgs

Photocircuits and Pall
OU2 Remedial Investigation

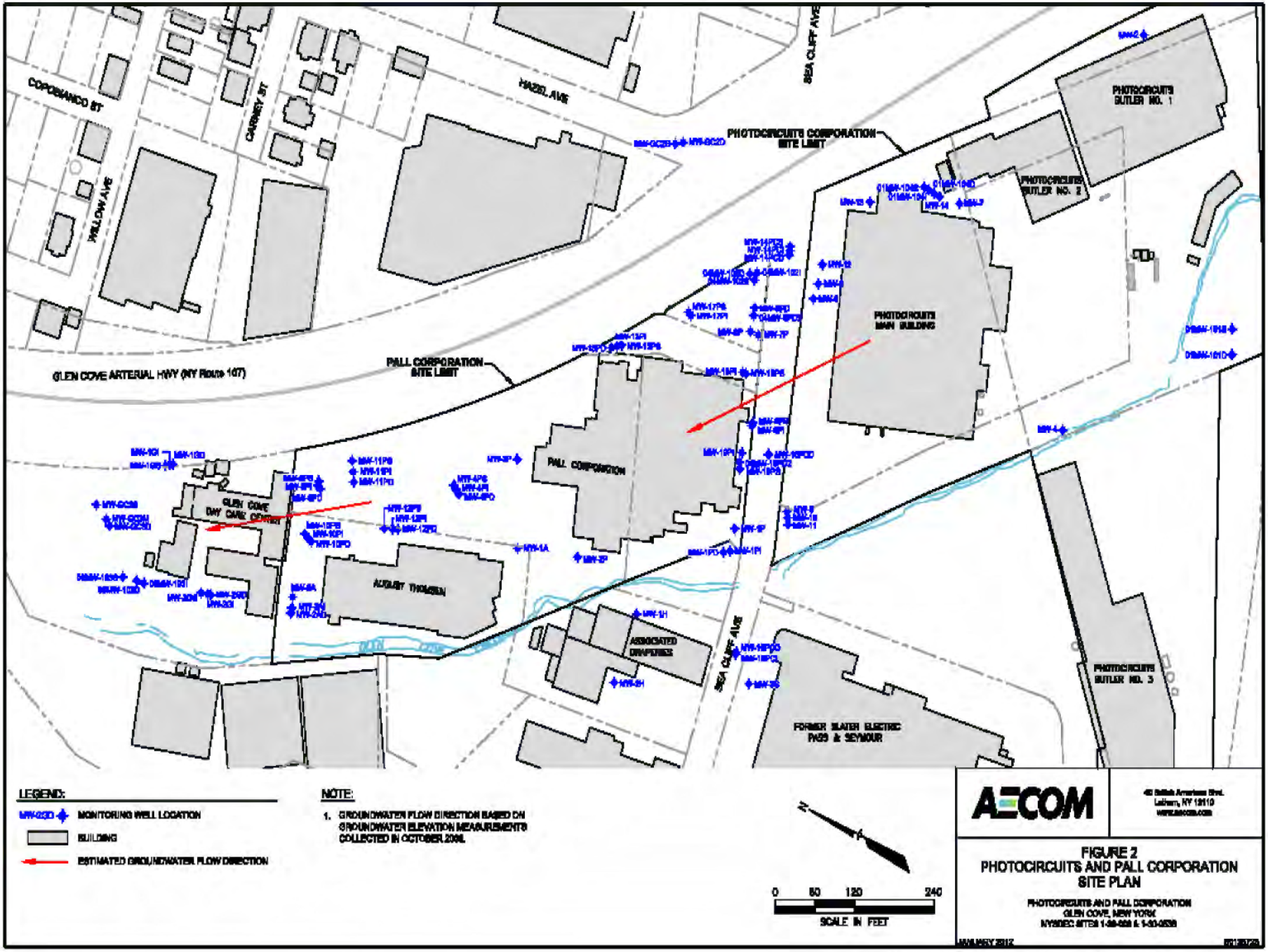

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FIGURE 2
PHOTOCIRCUITS AND PALL CORPORATION SITE PLAN

PHOTOCIRCUITS AND PALL CORPORATION
GLEN COVE, NEW YORK
NYSDEC SITES 1-30-038 & 1-30-039

JANUARY 2012

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Photocircuits Site
Previous Investigations

- Focused Remedial Investigation finished 1998 for the Photocircuits site
- Site divided into two operable units
- Operable Unit 1 ROD was issued in March 2008, requiring bioremediation and a downgradient air sparging curtain

Pall Site
Previous Investigations

- Remedial Investigation/Feasibility Study done between February 1998 and July 2000 for the Pall site
- Site divided into two operable units
- Operable Unit 1 ROD was issued in March 2004, requiring in-situ chemical oxidation

Photocircuits and Pall Sites OU2 Remedial Investigation

- OU2 RI conducted between April 2008 and November 2008
- 19 new and 51 existing groundwater monitoring wells sampled in two events
- Groundwater samples collected, during April thru June 2008, and October thru November 2008, and analyzed for VOCs

Photocircuits and Pall Sites OU2 Remedial Investigation (cont)

- Shallow interval defined as samples from wells screened 5 to 15 ft bgs
- Showed VOC concentrations between
  - 100 and 800 ppb on Photocircuits site
  - ND to 100 ppb on Pall site

Photocircuits and Pall Sites OU2 Remedial Investigation (cont)

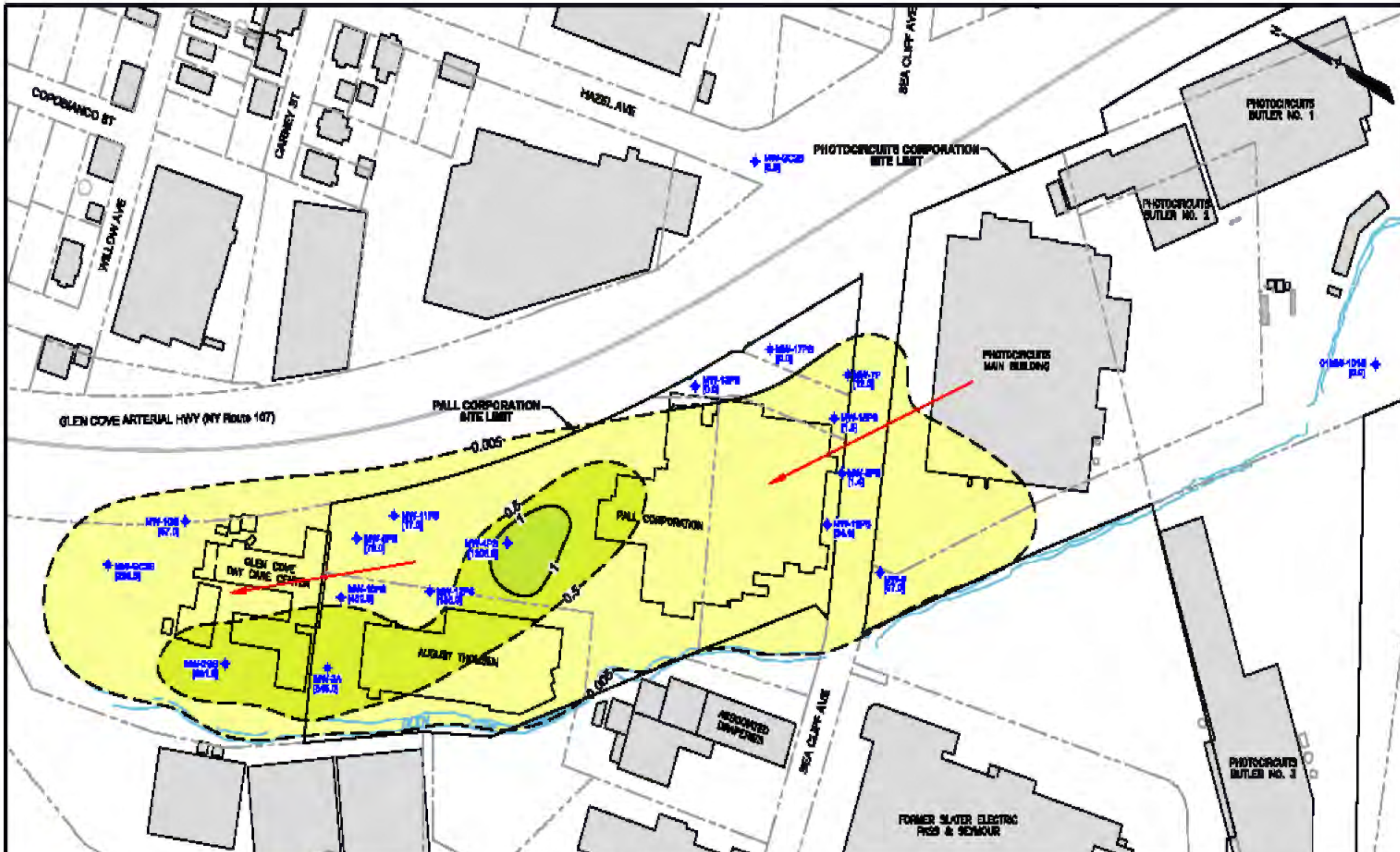
- Intermediate interval defined as samples from wells screened about 45 to 60 ft bgs
- Showed VOC concentrations in excess of 100 ppb in almost every intermediate well
- Showed VOC concentrations in excess of 10,000 ppb near a source area on the Photocircuits property

Photocircuits and Pall Sites OU2 Remedial Investigation (cont)

- Deep groundwater defined as samples from wells screened about 80 to 130 ft bgs
- Showed VOC contaminants greater than 5,000 ppb observed in the central and eastern part of the Pall site

Photocircuits and Pall Sites OU2 Remedial Investigation (cont)

- Very deep interval defined as samples from wells screened greater than 140 ft bgs
- Showed VOC contamination exceeded SCGs only north of the Pall site near Carney Street Well Field



LEGEND:

MW-GC35	MONITORING WELL LOCATION		CONTAMINANTS OF CONCERN 0.005 TO 0.5 mg/L
[505.0]	CONTAMINANTS OF CONCERN CONCENTRATION IN µg/L		CONTAMINANTS OF CONCERN 0.5 TO 1 mg/L
			CONTAMINANTS OF CONCERN >1 mg/L
	ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)		ESTIMATED GROUNDWATER FLOW DIRECTION
	BUILDING		

NOTES:

1. CONTOURS ARE APPROXIMATE BASED ON THE AVAILABLE LABORATORY DATA.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATION MEASUREMENTS COLLECTED IN OCTOBER 2008.
3. CONTAMINANTS OF CONCERN ARE A SUITE OF CHLORINATED VOLATILE ORGANIC COMPOUNDS (VOCs), INCLUDING TETRACHLOROETHENE, TRICHLOROETHENE, AND cis-1,2-DICHLOROETHENE. SEE FS REPORT SECTION 4.3.1 FOR DETAILS.

0 60 120 240
SCALE IN FEET

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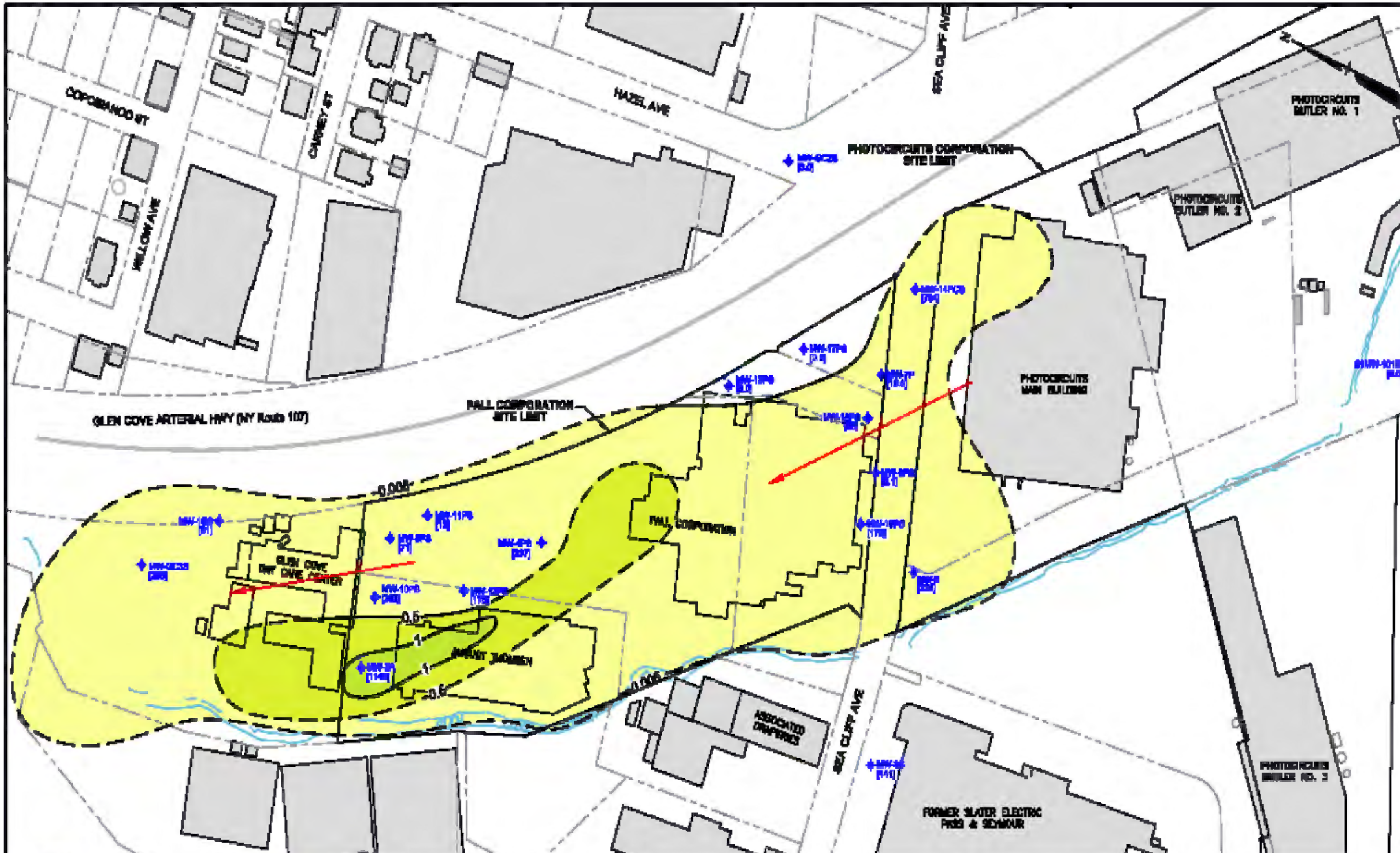
FIGURE 3
CONTAMINANTS OF CONCERN
SHALLOW WELLS - APRIL 2008 DATA

PHOTOCIRCUITS AND PALL CORPORATION
GLEN COVE, NEW YORK
NYSDEC SITES 1-30-029 & 1-30-053B

JANUARY 2012



LEGEND:

MW-GC3S	MONITORING WELL LOCATION		CONTAMINANTS OF CONCERN 0.005 TO 0.5 mg/L
[###]	CONTAMINANTS OF CONCERN CONCENTRATION IN µg/L		CONTAMINANTS OF CONCERN 0.5 TO 1 mg/L
			CONTAMINANTS OF CONCERN >1 mg/L
	ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)		ESTIMATED GROUNDWATER FLOW DIRECTION
	BUILDING		

NOTES:

1. CONTOURS ARE APPROXIMATE BASED ON THE AVAILABLE LABORATORY DATA.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATION MEASUREMENTS COLLECTED IN OCTOBER 2008.
3. CONTAMINANTS OF CONCERN ARE A SUITE OF CHLORINATED VOLATILE ORGANIC COMPOUNDS (VOCs), INCLUDING TETRACHLOROETHENE, TRICHLOROETHENE, AND cis-1,2-DICHLOROETHENE. (SEE FS REPORT SECTION 4.3.1 FOR DETAILS.)

0 80 160 240
SCALE IN FEET

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FIGURE 4
CONTAMINANTS OF CONCERN
SHALLOW WELLS - OCTOBER 2008 DATA

PHOTOCIRCUITS AND PALL CORPORATION
GLEN COVE, NEW YORK
NYSDEC SITES 1-30-009 & 1-30-053B

JANUARY 2012

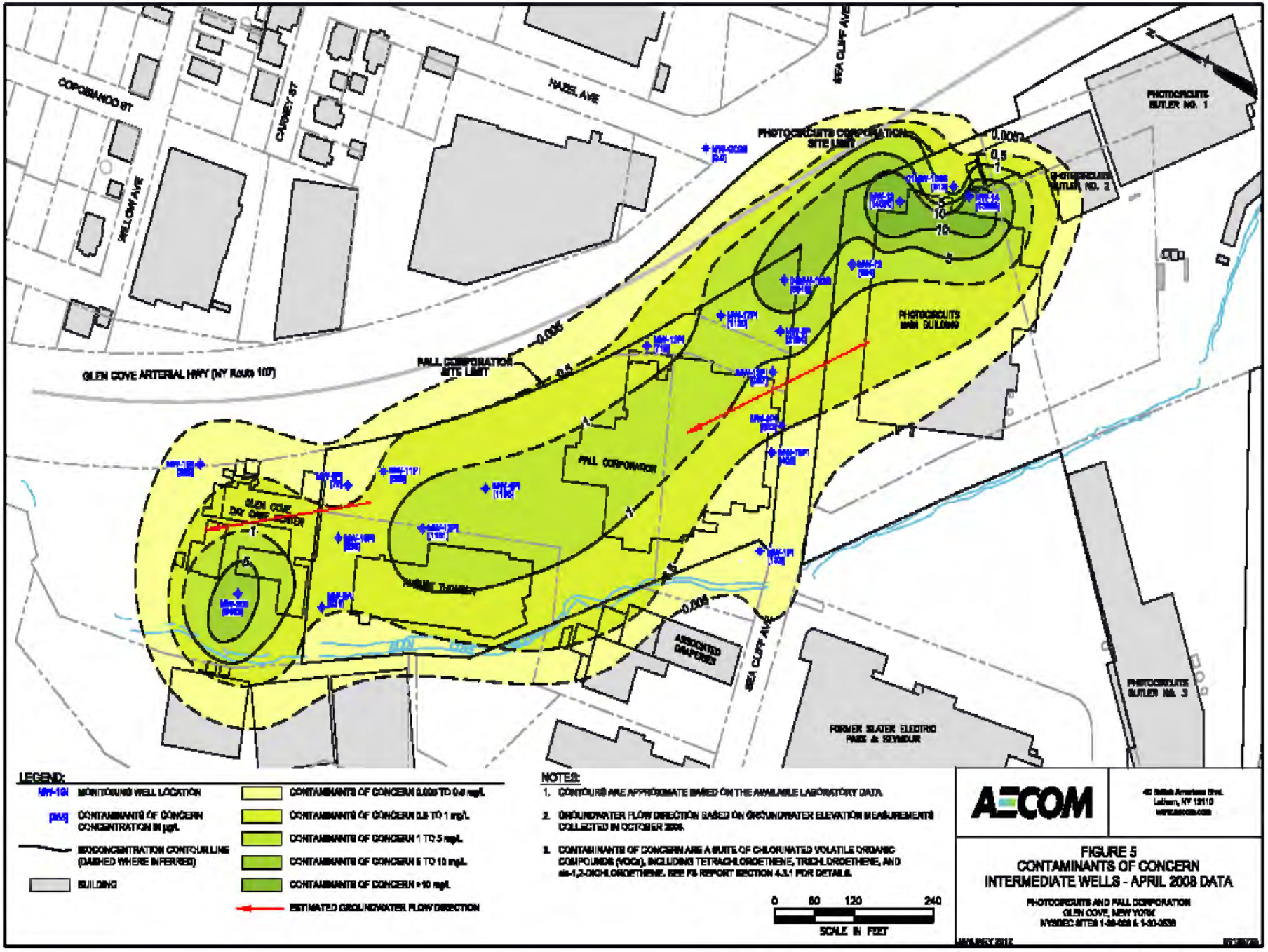
COPOBIANCO ST
CARNEY ST
HAZEL AVE
SEA CLIFF AVE
WILLOW AVE
PHOTOCIRCUITS CORPORATION SITE LIMIT
PHOTOCIRCUITS BUTLER NO. 1
PHOTOCIRCUITS BUTLER NO. 2
PHOTOCIRCUITS BUTLER NO. 3
PHOTOCIRCUITS MAIN BUILDING
GLEN COVE ARTERIAL HWY (NY Route 107)
FALL CORPORATION SITE LIMIT
FALL CORPORATION
GLEN COVE DRY CLEANER
ASSOCIATED DRAPERIES
FORMER SLATER ELECTRIC PAGE & SEYMOUR
0.0005
0.5
1
10
5
0.005
0.05
LEGEND:
MW-13I MONITORING WELL LOCATION
[ND] CONTAMINANTS OF CONCERN CONCENTRATION IN µg/L
ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
BUILDING
CONTAMINANTS OF CONCERN 0.005 TO 0.5 mg/L
CONTAMINANTS OF CONCERN 0.5 TO 1 mg/L
CONTAMINANTS OF CONCERN 1 TO 5 mg/L
CONTAMINANTS OF CONCERN 5 TO 10 mg/L
CONTAMINANTS OF CONCERN > 10 mg/L
ESTIMATED GROUNDWATER FLOW DIRECTION
NOTES:
1. CONTOURS ARE APPROXIMATE BASED ON THE AVAILABLE LABORATORY DATA.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATION MEASUREMENTS COLLECTED IN OCTOBER 2008.
3. CONTAMINANTS OF CONCERN ARE A SUITE OF CHLORINATED VOLATILE ORGANIC COMPOUNDS (VOCs), INCLUDING TETRACHLOROETHENE, TRICHLOROETHENE, AND cis-1,2-DICHLOROETHENE. SEE FS REPORT SECTION 4.3.1 FOR DETAILS.
0 60 120 240
SCALE IN FEET
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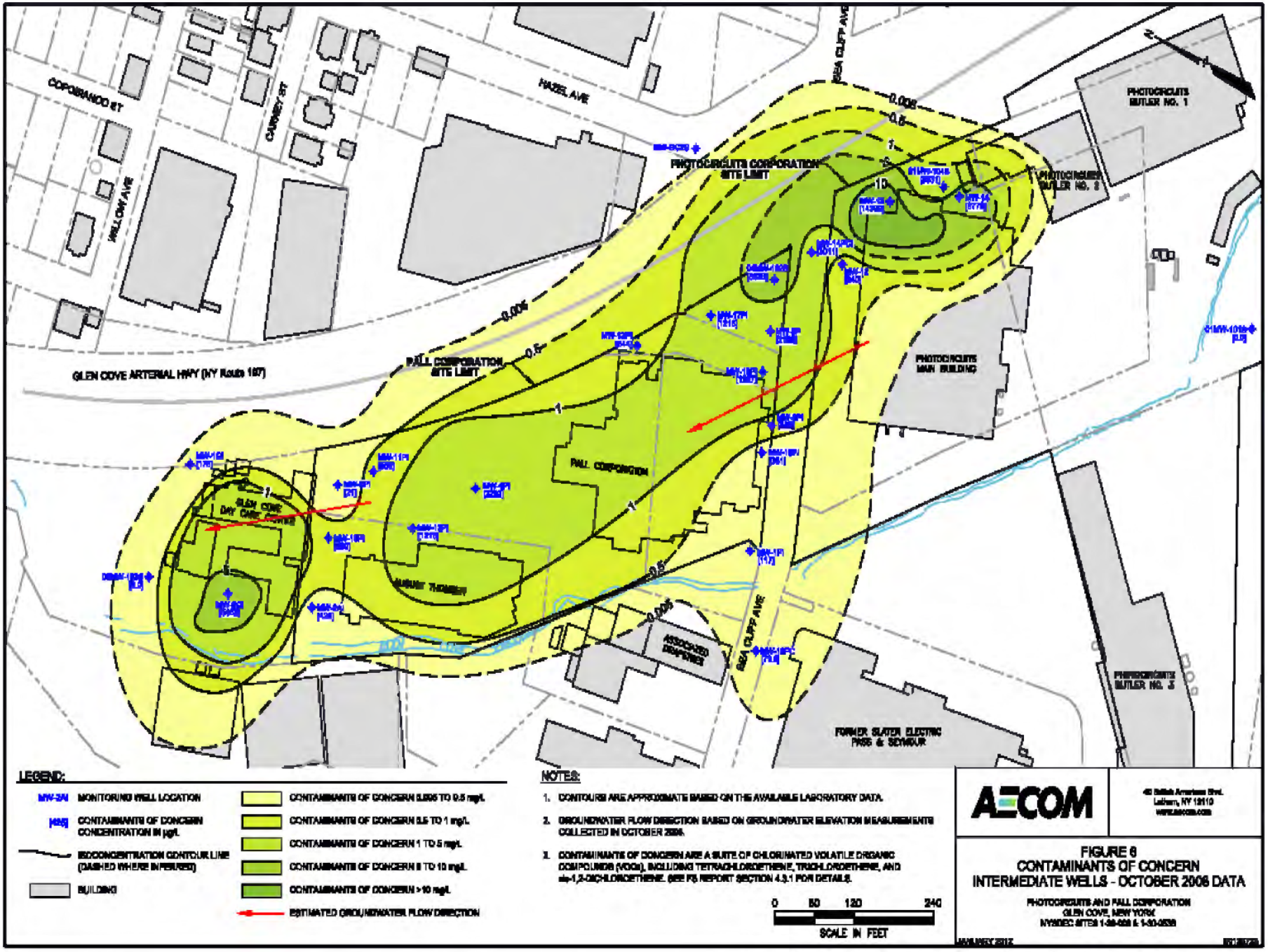
FIGURE 5
CONTAMINANTS OF CONCERN
INTERMEDIATE WELLS - APRIL 2009 DATA
PHOTOCIRCUITS AND FALL CORPORATION
GLEN COVE, NEW YORK
NYSDEC SITES 1-28-008 & 1-30-009
JANUARY 2012



LEGEND:

- MW-3A — MONITORING WELL LOCATION
- [405] — CONTAMINANTS OF CONCERN CONCENTRATION IN µg/L
- ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
- BUILDING
- CONTAMINANTS OF CONCERN 0.005 TO 0.5 mg/L
- CONTAMINANTS OF CONCERN 0.5 TO 1 mg/L
- CONTAMINANTS OF CONCERN 1 TO 5 mg/L
- CONTAMINANTS OF CONCERN 5 TO 10 mg/L
- CONTAMINANTS OF CONCERN > 10 mg/L
- ESTIMATED GROUNDWATER FLOW DIRECTION

NOTES:

1. CONTOURS ARE APPROXIMATE BASED ON THE AVAILABLE LABORATORY DATA.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATION MEASUREMENTS COLLECTED IN OCTOBER 2006.
3. CONTAMINANTS OF CONCERN ARE A SUITE OF CHLORINATED VOLATILE ORGANIC COMPOUNDS (VOCs), INCLUDING TETRACHLOROETHENE, TRICHLOROETHENE, AND cis-1,2-DICHLOROETHENE. (SEE FS REPORT SECTION 4.3.1 FOR DETAILS).

0 60 120 240
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FIGURE 6
CONTAMINANTS OF CONCERN
INTERMEDIATE WELLS - OCTOBER 2006 DATA

PHOTOCIRCUITS AND FALL CORPORATION
GLEN COVE, NEW YORK
NYSDEC SITES 1-30-008 & 1-30-009

JANUARY 2012

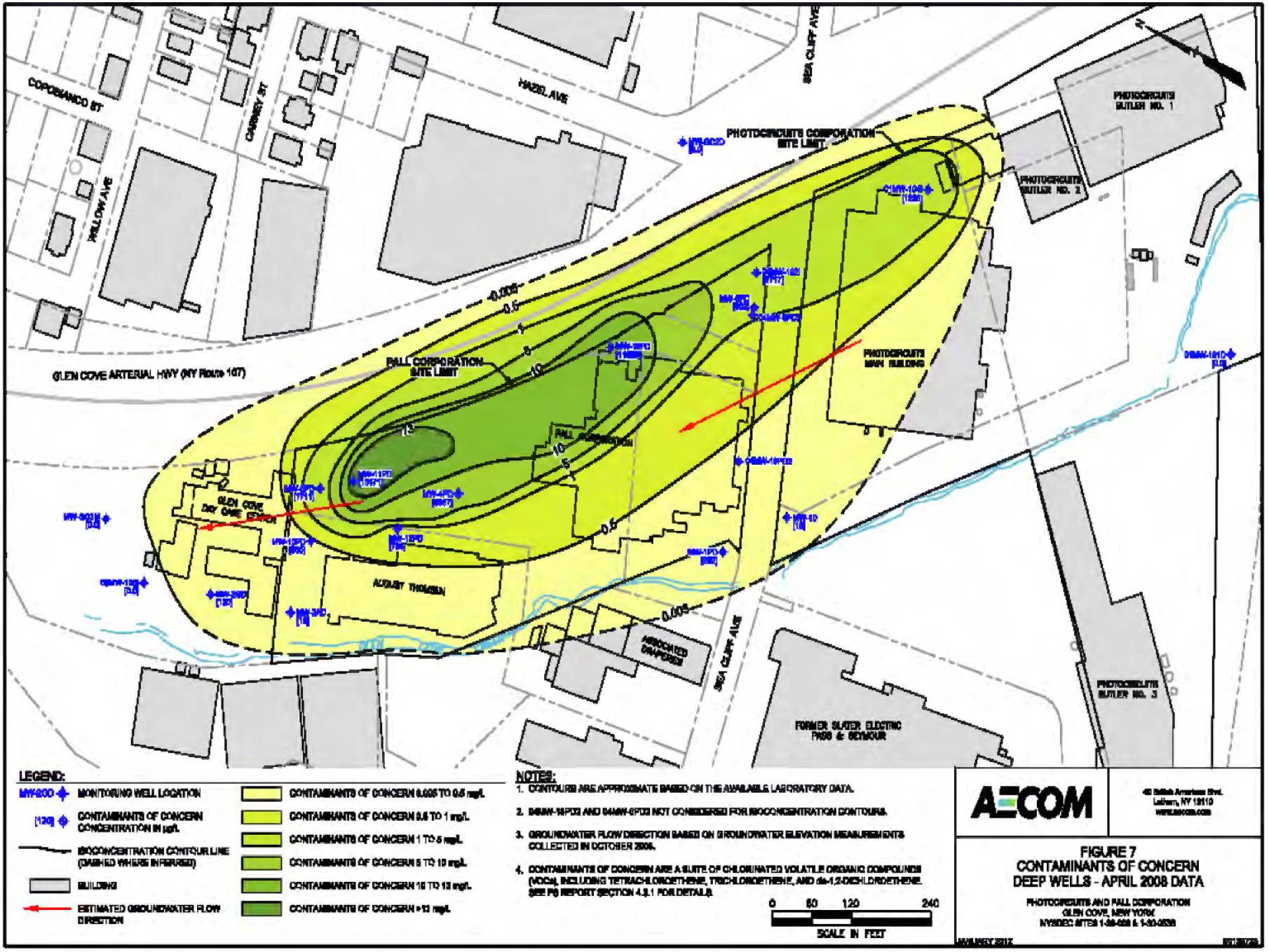
COPOSANCO ST
CARNEY ST
HAZEL AVE
SEA CLIFF AVE
WILLOW AVE
GLEN COVE ARTERIAL HWY (NY Route 107)
PHOTOCIRCUITS CORPORATION SITE LIMIT
PHOTOCIRCUITS BUTLER NO. 1
PHOTOCIRCUITS BUTLER NO. 2
PHOTOCIRCUITS BUTLER NO. 3
PHOTOCIRCUITS MAIN BUILDING
FALL CORPORATION SITE LIMIT
FALL CORPORATION
GLEN COVE DRY CLEANERS
AUGUST THOMSEN
ASSOCIATED DRAPERIES
FORMER SLATER ELECTRIC PADS & SEYMOUR
0.005
0.5
1
5
10
LEGEND:
MONITORING WELL LOCATION
CONTAMINANTS OF CONCERN CONCENTRATION IN µg/L
ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
BUILDING
ESTIMATED GROUNDWATER FLOW DIRECTION
CONTAMINANTS OF CONCERN 0.005 TO 0.5 mg/L
CONTAMINANTS OF CONCERN 0.5 TO 1 mg/L
CONTAMINANTS OF CONCERN 1 TO 5 mg/L
CONTAMINANTS OF CONCERN 5 TO 10 mg/L
CONTAMINANTS OF CONCERN 10 TO 13 mg/L
CONTAMINANTS OF CONCERN >13 mg/L
NOTES:
1. CONTOURS ARE APPROXIMATE BASED ON THE AVAILABLE LABORATORY DATA.
2. B46W-18P02 AND B46W-8P02 NOT CONSIDERED FOR ISOCONCENTRATION CONTOURS.
3. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATION MEASUREMENTS COLLECTED IN OCTOBER 2008.
4. CONTAMINANTS OF CONCERN ARE A SUITE OF CHLORINATED VOLATILE ORGANIC COMPOUNDS (VOCs), INCLUDING TETRACHLOROETHENE, TRICHLOROETHENE, AND cis-1,2-DICHLOROETHENE. SEE PD REPORT SECTION 4.3.1 FOR DETAILS.
0 60 120 240
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FIGURE 7
CONTAMINANTS OF CONCERN
DEEP WELLS - APRIL 2008 DATA
PHOTOCIRCUITS AND FALL CORPORATION
GLEN COVE, NEW YORK
NYSDEC SITES 1-28-008 & 1-30-009

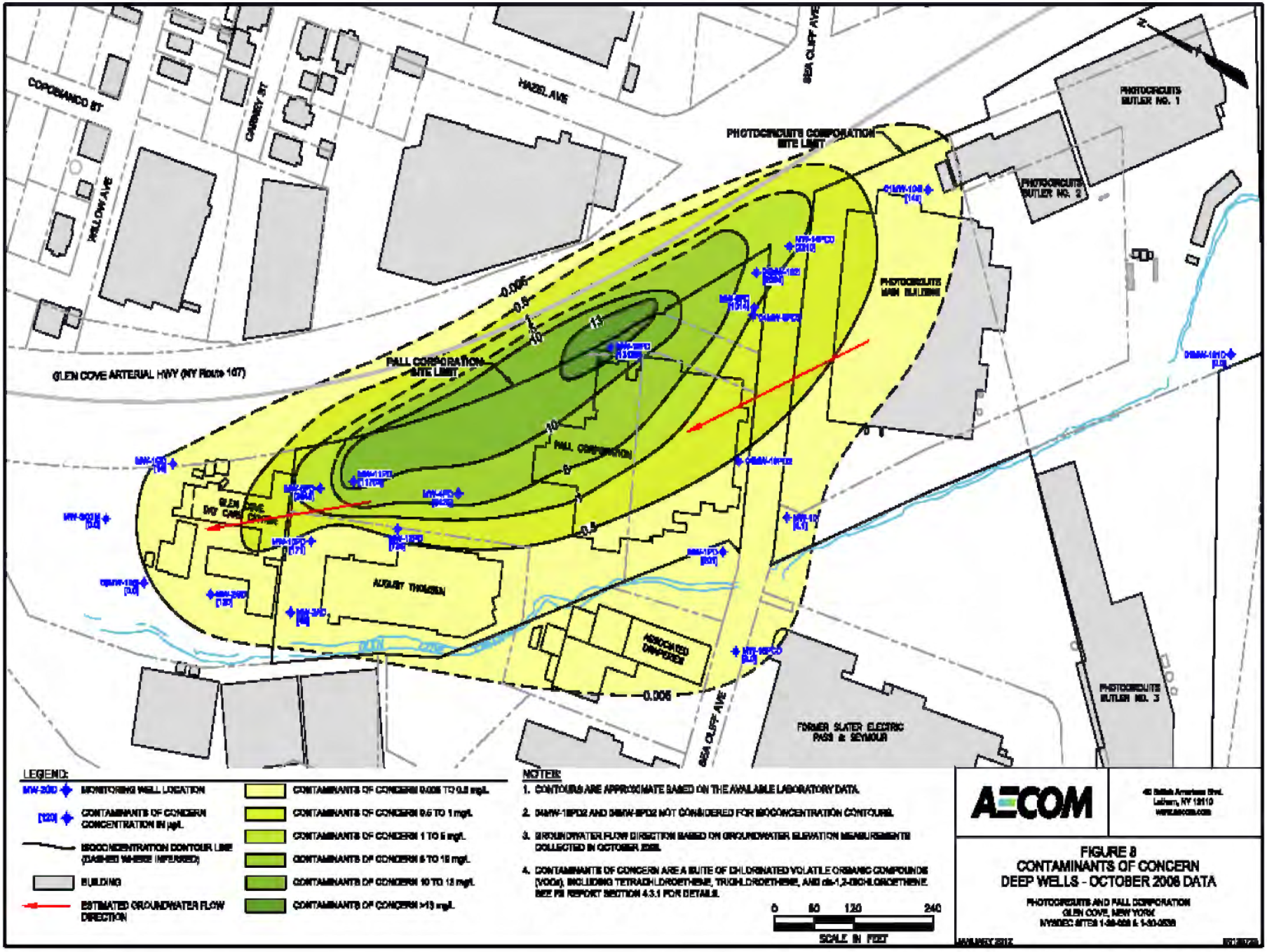
COPOSANICO ST
CARNEY ST
HAZEL AVE
SEA CLIFF AVE
WILLOW AVE
GLEN COVE ARTERIAL HWY (NY Route 107)
PHOTOCIRCUITS CORPORATION SITE LIMIT
PHOTOCIRCUITS BUTLER NO. 1
PHOTOCIRCUITS BUTLER NO. 2
PHOTOCIRCUITS BUTLER NO. 3
PHOTOCIRCUITS MAIN BUILDING
FALL CORPORATION SITE LIMIT
FALL CORPORATION
GLEN COVE MOTOR CAR COMPANY
AUGUST THOMSEN
ASSOCIATED DRAPERIES
FORMER SLATER ELECTRIC PASS & SEYMOUR
0.005
0.5
1
10
LEGEND:
MONITORING WELL LOCATION
CONTAMINANTS OF CONCERN CONCENTRATION IN µg/L
ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
BUILDING
ESTIMATED GROUNDWATER FLOW DIRECTION
CONTAMINANTS OF CONCERN 0.005 TO 0.5 mg/L
CONTAMINANTS OF CONCERN 0.5 TO 1 mg/L
CONTAMINANTS OF CONCERN 1 TO 5 mg/L
CONTAMINANTS OF CONCERN 5 TO 10 mg/L
CONTAMINANTS OF CONCERN 10 TO 13 mg/L
CONTAMINANTS OF CONCERN >13 mg/L
NOTES:
1. CONTOURS ARE APPROXIMATE BASED ON THE AVAILABLE LABORATORY DATA.
2. 04MW-18PD2 AND 08MW-8PD2 NOT CONSIDERED FOR ISOCONCENTRATION CONTOURS.
3. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATION MEASUREMENTS COLLECTED IN OCTOBER 2008.
4. CONTAMINANTS OF CONCERN ARE A SUITE OF CHLORINATED VOLATILE ORGANIC COMPOUNDS (VOCs), INCLUDING TETRACHLOROETHENE, TRICHLOROETHENE, AND cis-1,2-DICHLOROETHENE. SEE FS REPORT SECTION 4.3.1 FOR DETAILS.
0 60 120 240
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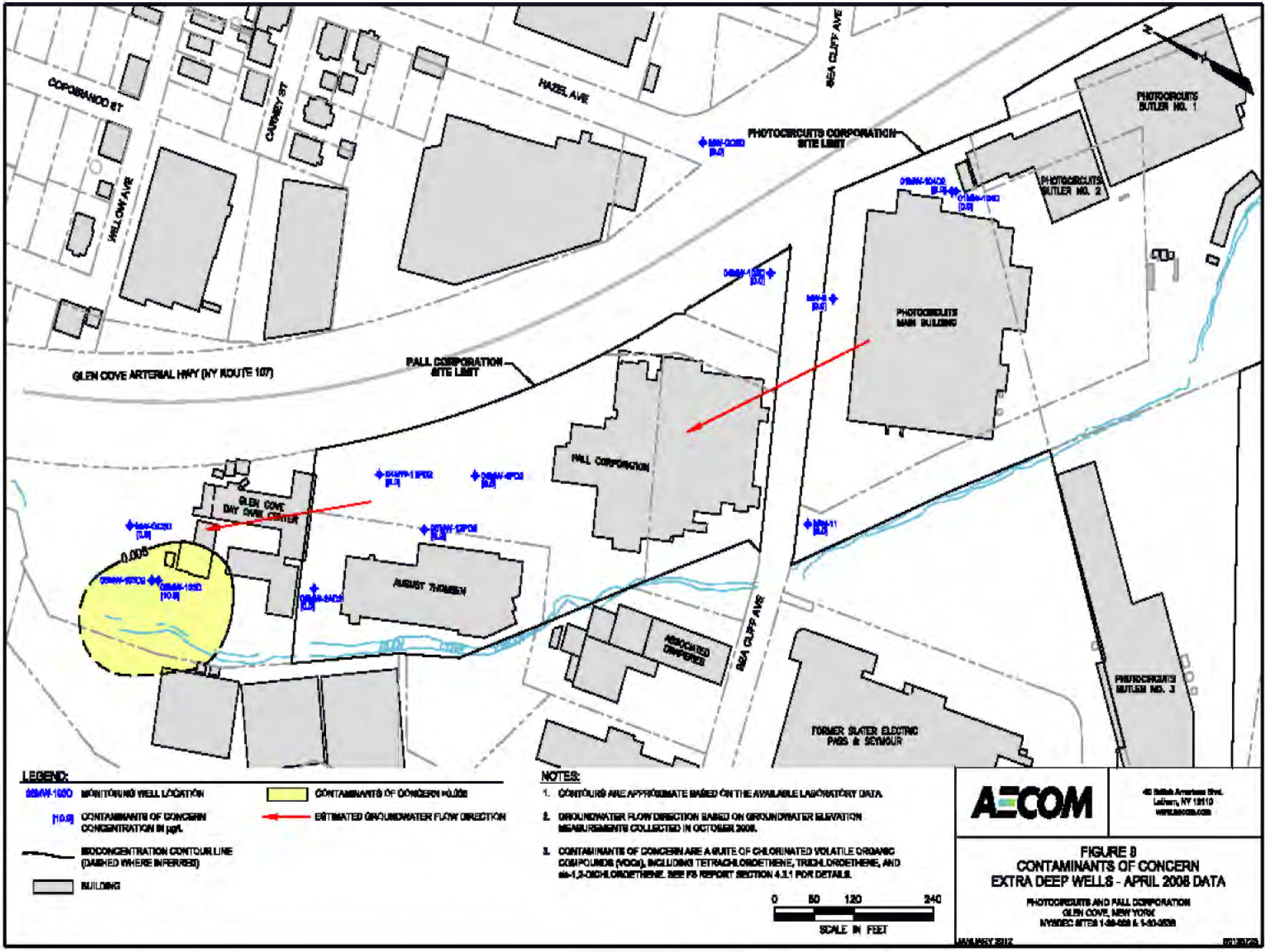
FIGURE 8
CONTAMINANTS OF CONCERN
DEEP WELLS - OCTOBER 2008 DATA
PHOTOCIRCUITS AND FALL CORPORATION
GLEN COVE, NEW YORK
NYSDEC SITES 1-30-008 & 1-30-009


COPOSIANOO ST
CARNEY ST
HAZEL AVE
SEA CLIFF AVE
WILLOW AVE
PHOTOCIRCUITS CORPORATION SITE LIMIT
PHOTOCIRCUITS BUTLER NO. 1
PHOTOCIRCUITS BUTLER NO. 2
PHOTOCIRCUITS MAIN BUILDING
GLEN COVE ARTERIAL HWY (NY ROUTE 107)
PALL CORPORATION SITE LIMIT
PALL CORPORATION
GLEN COVE DAY CARE CENTER
AUGUST THOMSEN
ASSOCIATED CHIMNEYS
SEA CLIFF AVE
PHOTOCIRCUITS BUTLER NO. 3
FORMER SLATER ELECTRIC PASS & SEYMOUR
0.005
LEGEND:
MONITORING WELL LOCATION
CONTAMINANTS OF CONCERN CONCENTRATION IN µg/L
ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
BUILDING
CONTAMINANTS OF CONCERN =0.005
ESTIMATED GROUNDWATER FLOW DIRECTION
NOTES:
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2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATION MEASUREMENTS COLLECTED IN OCTOBER 2008.
3. CONTAMINANTS OF CONCERN ARE A SUITE OF CHLORINATED VOLATILE ORGANIC COMPOUNDS (VOCs), INCLUDING TETRACHLOROETHENE, TRICHLOROETHENE, AND cis-1,2-DICHLOROETHENE. SEE FS REPORT SECTION 4.3.1 FOR DETAILS.
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FIGURE 8
CONTAMINANTS OF CONCERN
EXTRA DEEP WELLS - APRIL 2008 DATA
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GLEN COVE, NEW YORK
NYSDEC SITES 1-28-038 & 1-30-038
JANUARY 2012

Photocircuits and Pall OU2 Feasibility Study

Photocircuits and Pall Feasibility Study Objective

Develop Cleanup Alternatives
That Achieve
Remedial Action Objectives

Photocircuits and Pall Remedial Action Objectives

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards
- Prevent contact with or inhalation of volatiles from contaminated groundwater
- Restore groundwater aquifer to pre-disposal conditions, to the extent practicable

Cleanup Alternatives

- 1: No Action (no cost)
- 2: Groundwater Monitoring
  - Capital Costs: $29,000
  - Annual Costs: $39,000
  - Total Cost: $620,000
- 3: Groundwater Extraction and Treatment by Air Stripping
  - Capital Costs: $644,000
  - Annual Costs: $234,000
  - Total Cost: $4,243,000

Cleanup Alternatives (Continued)

- 4: In-Situ Chemical Oxidation (ISCO)
  - Capital Costs: $3,578,000
  - Annual Costs Yr. 1-3: $28,000
  - Annual Costs Yr. 4-15: $94,000
  - Total Cost: $4,130,000
- 5: ISCO and Pump and Treat
  - Capital Costs: $3,866,500
  - Annual Costs Yr. 1-3: $188,000
  - Annual Costs Yr. 4-10: $132,500
  - Total Cost: $5,057,000

Cleanup Alternatives (Continued)

- 6: ISCO and Groundwater Extraction with Recirculation without Ex-Situ Treatment
  - Capital Costs: $4,024,000
  - Annual Costs Yr. 1-3: $176,000
  - Annual Costs Yr. 4-12: $82,000
  - Present Worth: $4,901,000

Evaluation of Alternatives

NYSDEC evaluates alternatives on nine criteria:

1. Protection of human health and the environment
2. Compliance with standards, criteria and guidance
3. Short-term impacts and effectiveness
4. Long-term effectiveness and permanence
5. Reduction in toxicity, mobility and volume of contaminants
6. Implementability
7. Cost effectiveness
8. Land use
9. Community Acceptance

NYSDOH
EXPOSURE EVALUATION

Microsoft Office
werPoint 97-2003 Pı

Photocircuits and Pall Proposed Remedial Action Plan(s)

- NYSDEC proposes same remedy to remediate the OU2 regime at each site
- Proposed Remedy:

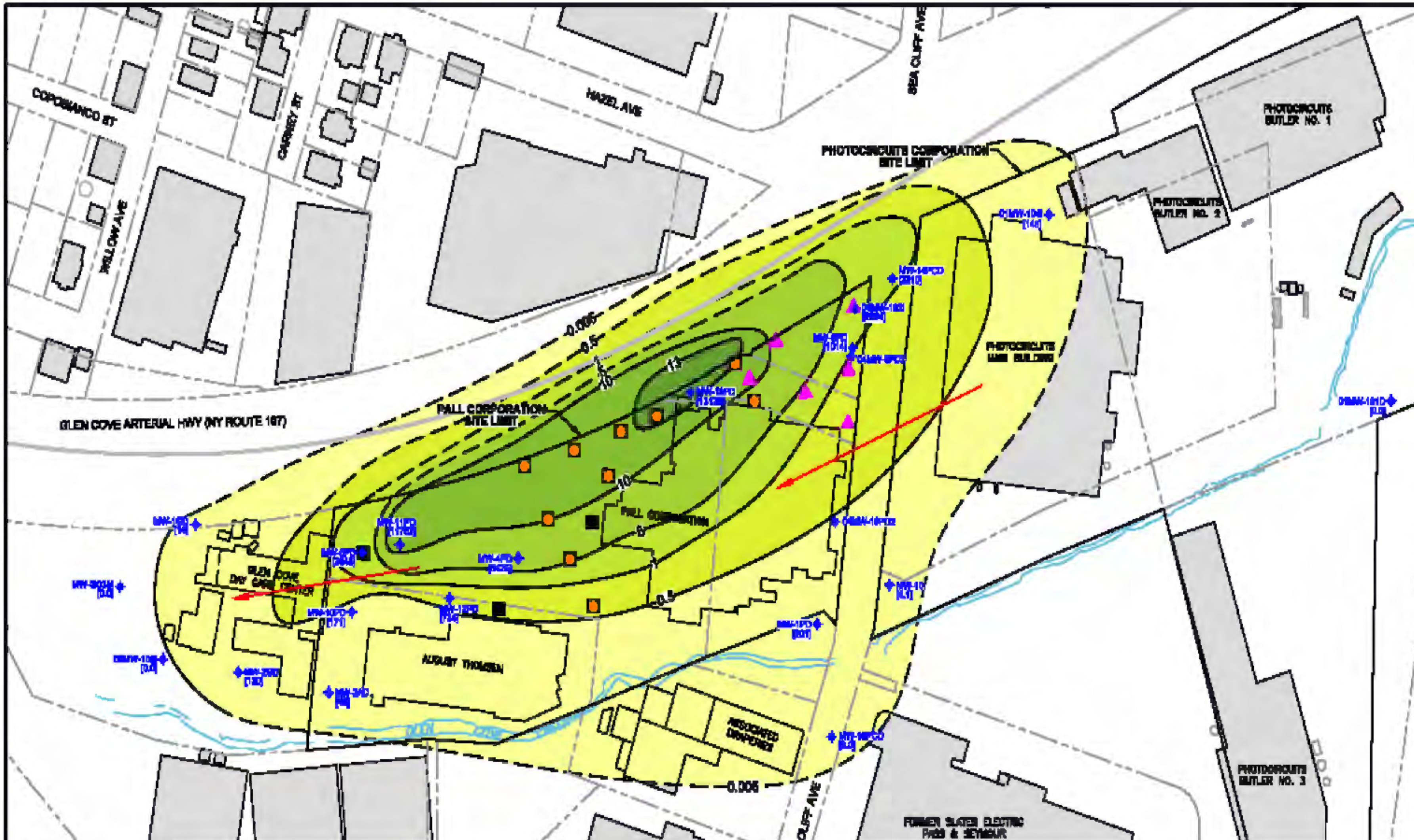
ISCO INJECTION AND GROUNDWATER EXTRACTION (RECIRCULATION) WITHOUT EX-SITU TREATMENT

Elements of the Proposed Remedy

- In Situ Chemical Oxidation/Groundwater Extraction and Recirculation
  - chemical oxidant injected via injection wells
  - groundwater extraction so contaminated groundwater collected, then re-injected upgradient of the Chemical Oxidation treatment area, recirculating contaminated groundwater through treatment area

Elements of the Proposed Remedy (cont)

- Remedial Design Program
  - Including ISCO Pilot Test
- Institutional Controls
  - Including Environmental Easement
- Site Management Plan
  - Including Monitoring Plan
  - Including Operation and Maintenance Plan



LEGEND:

- PROPOSED INJECTION WELL LOCATION
- PROPOSED EXTRACTION WELL LOCATION
- PROPOSED ISCO INJECTION WELL LOCATION
- MW-20D — MONITORING WELL LOCATION
- [120] — CONTAMINANTS OF CONCERN CONCENTRATION IN µg/L
- ISOCONCENTRATION CONTOUR LINE (DASHED WHERE INFERRED)
- ESTIMATED GROUNDWATER FLOW DIRECTION
- CONTAMINANTS OF CONCERN 0.005 TO 0.5 mg/L
- CONTAMINANTS OF CONCERN 0.5 TO 1 mg/L
- CONTAMINANTS OF CONCERN 1 TO 5 mg/L
- CONTAMINANTS OF CONCERN 5 TO 10 mg/L
- CONTAMINANTS OF CONCERN 10 TO 13 mg/L
- CONTAMINANTS OF CONCERN >13 mg/L
- BUILDING

NOTES:

1. CONTOURS ARE APPROXIMATE BASED ON THE AVAILABLE LABORATORY DATA.
2. 04MW-19PD2 AND 04MW-8PD2 NOT CONSIDERED FOR ISOCONCENTRATION CONTOURS.
3. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATION MEASUREMENTS COLLECTED IN OCTOBER 2008.

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FIGURE 14
ALTERNATIVE 6
ISCO INJECTION AND GROUNDWATER EXTRACTION (RECIRCULATION) WITHOUT EX SITU TREATMENT
GLEN COVE, NEW YORK
NYSDEC SITES 1-30-053 & 1-30-053B

JANUARY 2012

Questions? Comments?

Bill Fonda, Moderator

Citizen Participation Specialist

Proposed Remedial Action Plans
Photocircuits and Pall Sites
Operable Unit(s) 2

Comment Period Ends March 14, 2013

Joseph Jones
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