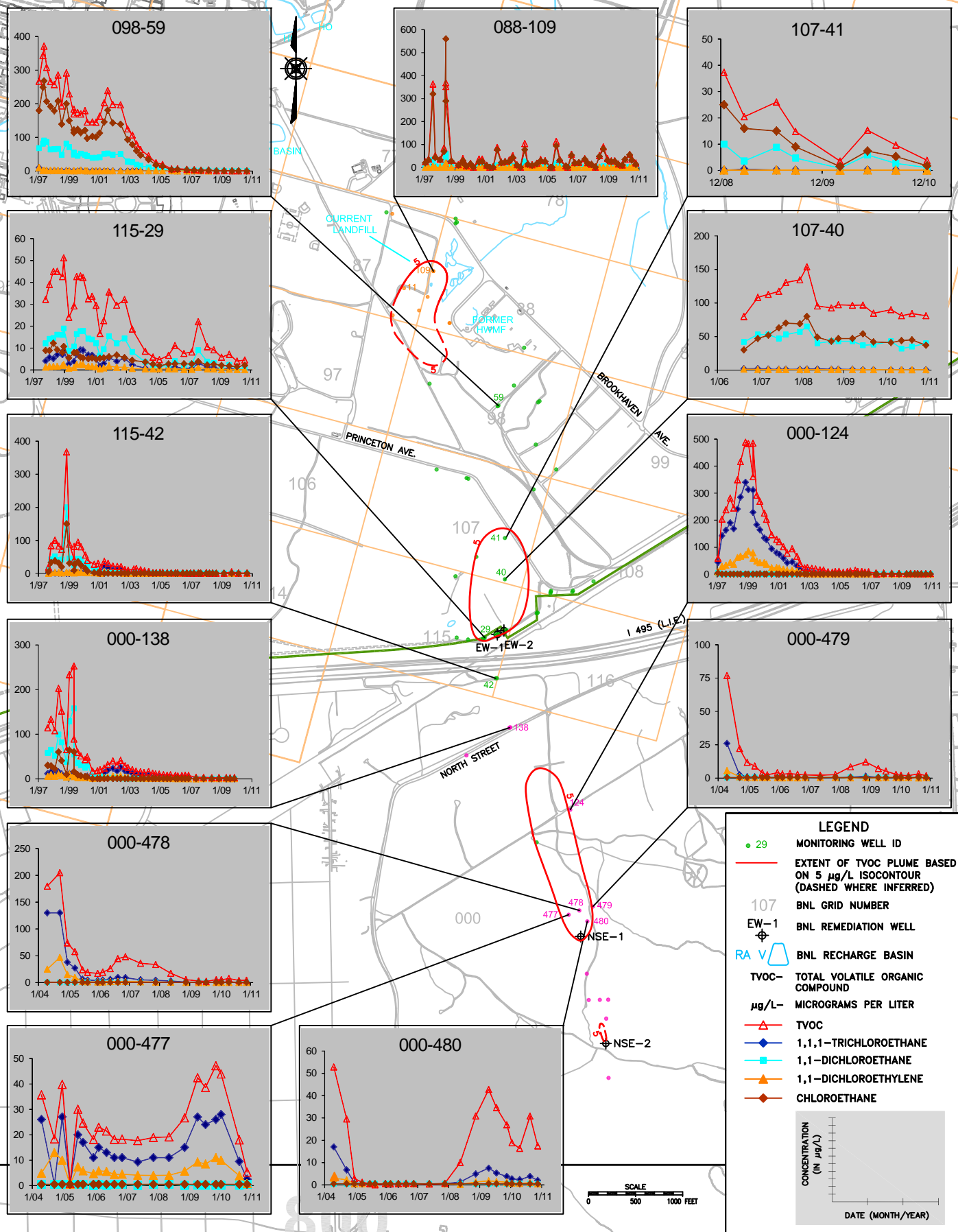


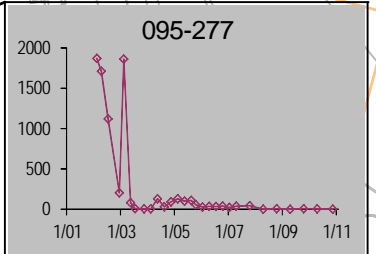
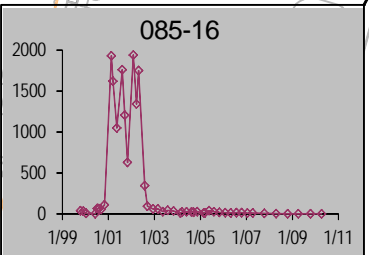
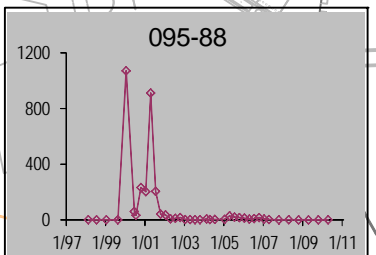
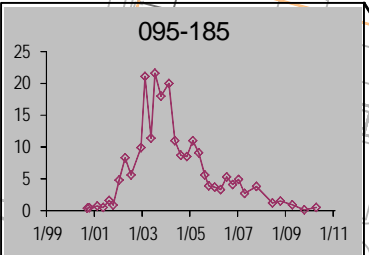
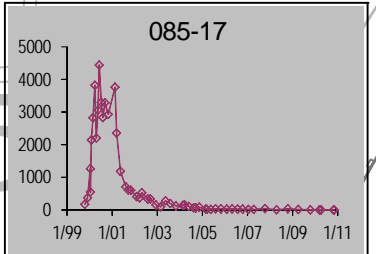
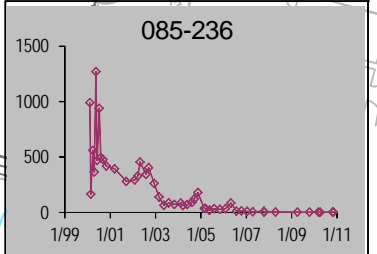
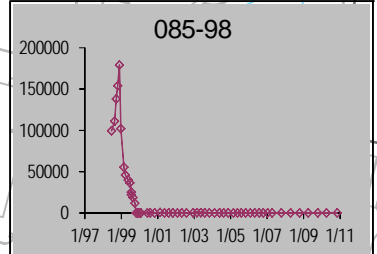
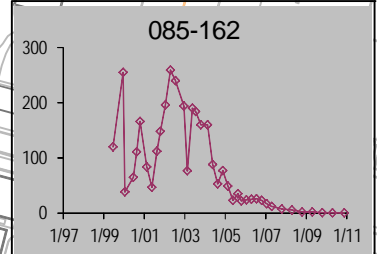
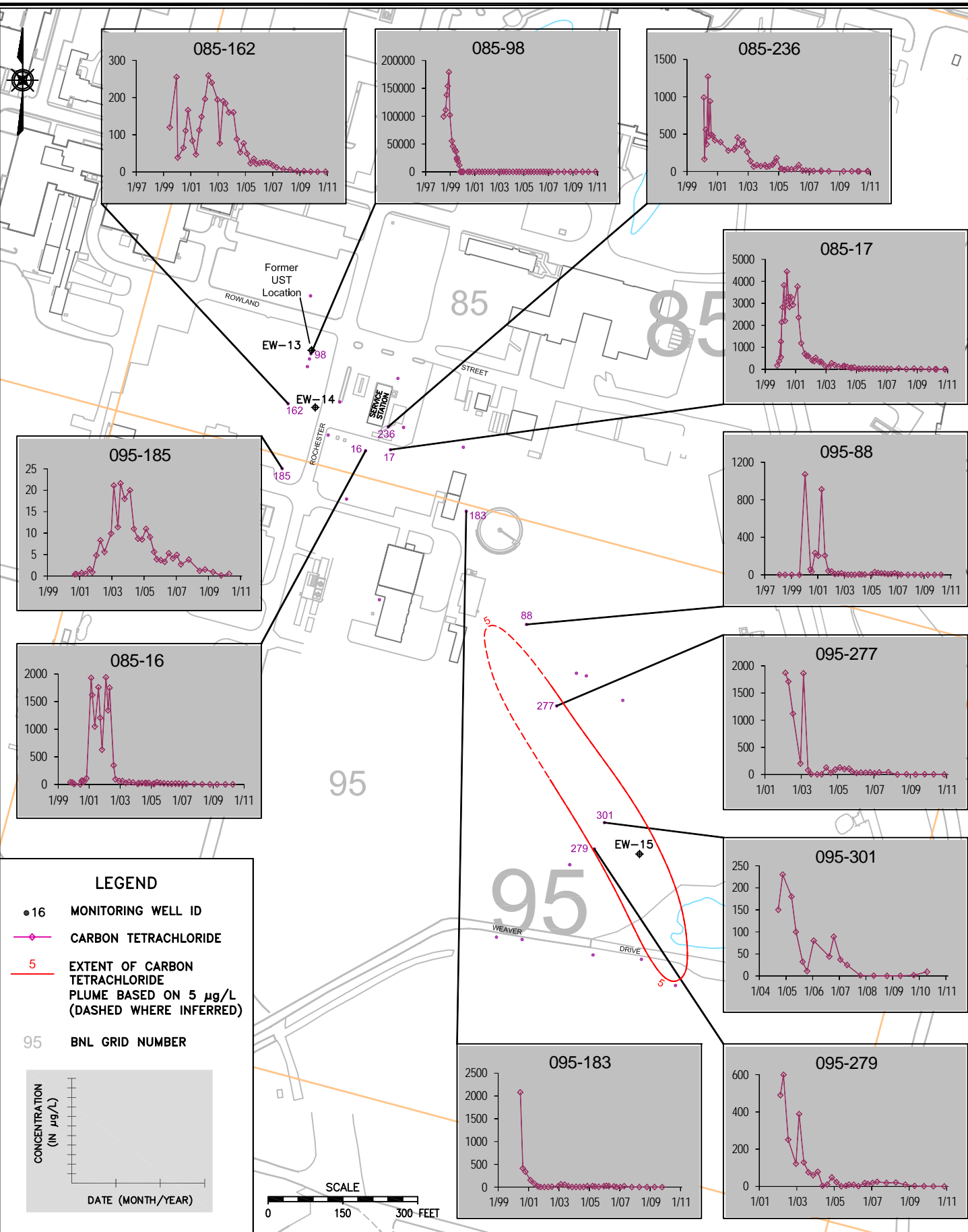
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TITLE: **OU I CURRENT LANDFILL/ SOUTH BOUNDARY/ NORTH STREET EAST HISTORICAL VOC TRENDS**
 2010 BNL FIVE-YEAR REVIEW

DWN: AJZ	VT: HZ.: -	DATE: 02/23/11	PROJECT NO.: -
CHKD: JEB	APPD: WRD	REV.: -	NOTES: -
FIGURE NO.:		6-1	

\\OERNT\GIS\GW_PROJECTS\FIVE_YEAR_REVIEW\Fig-06-2_022311.dwg

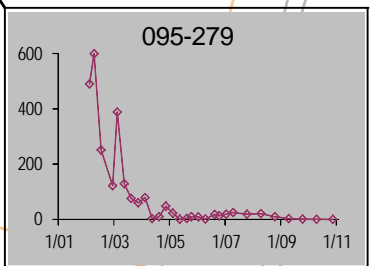
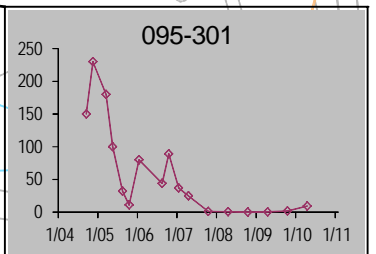
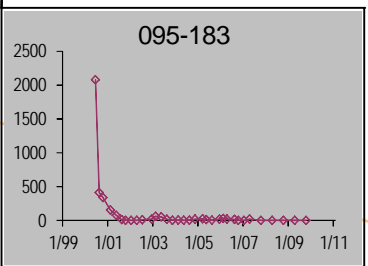
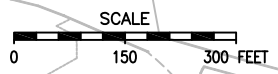


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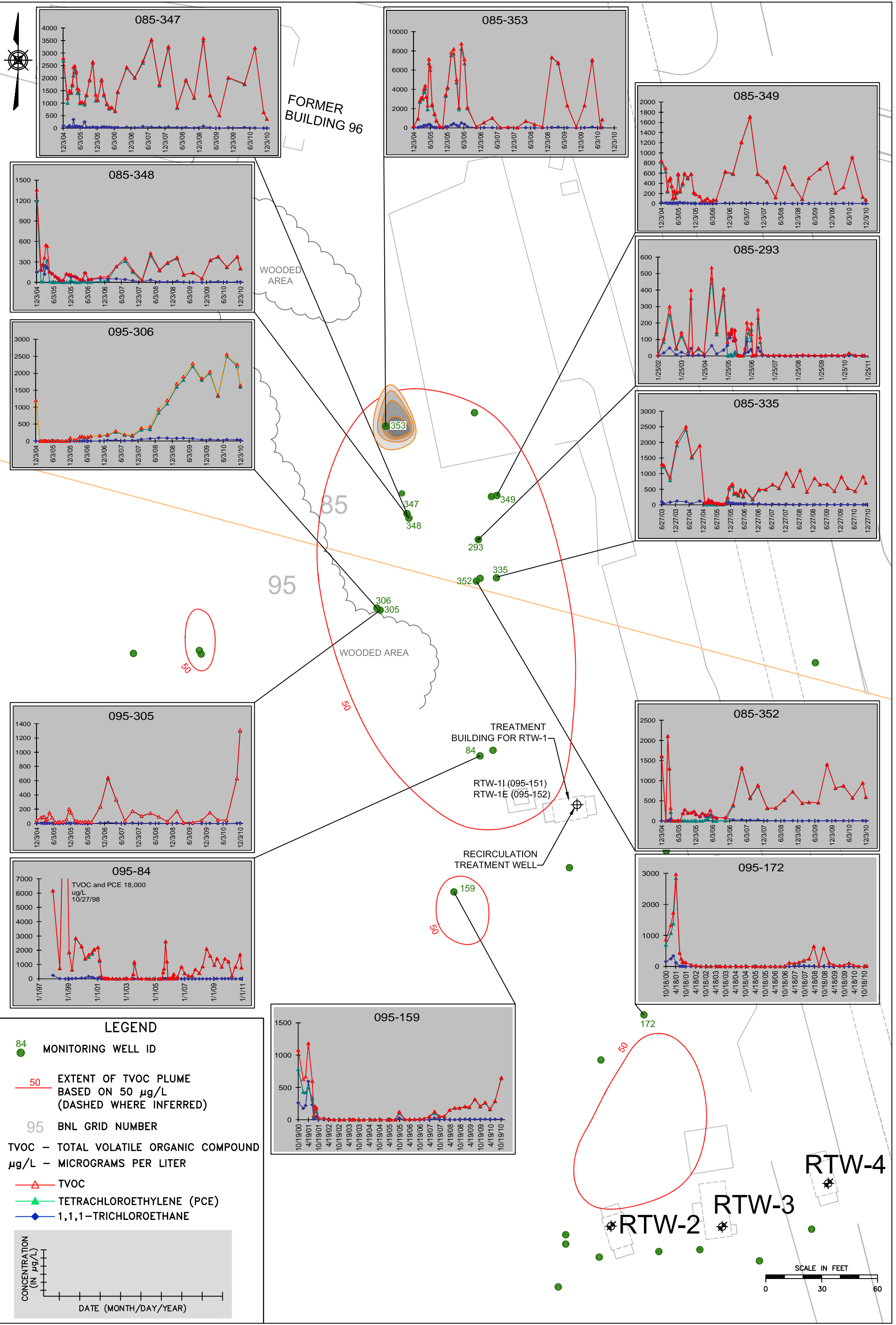
- 16 MONITORING WELL ID
- ◆ CARBON TETRACHLORIDE
- 5 EXTENT OF CARBON TETRACHLORIDE PLUME BASED ON 5 µg/L (DASHED WHERE INFERRED)
- 95 BNL GRID NUMBER

CONCENTRATION (IN µg/L)

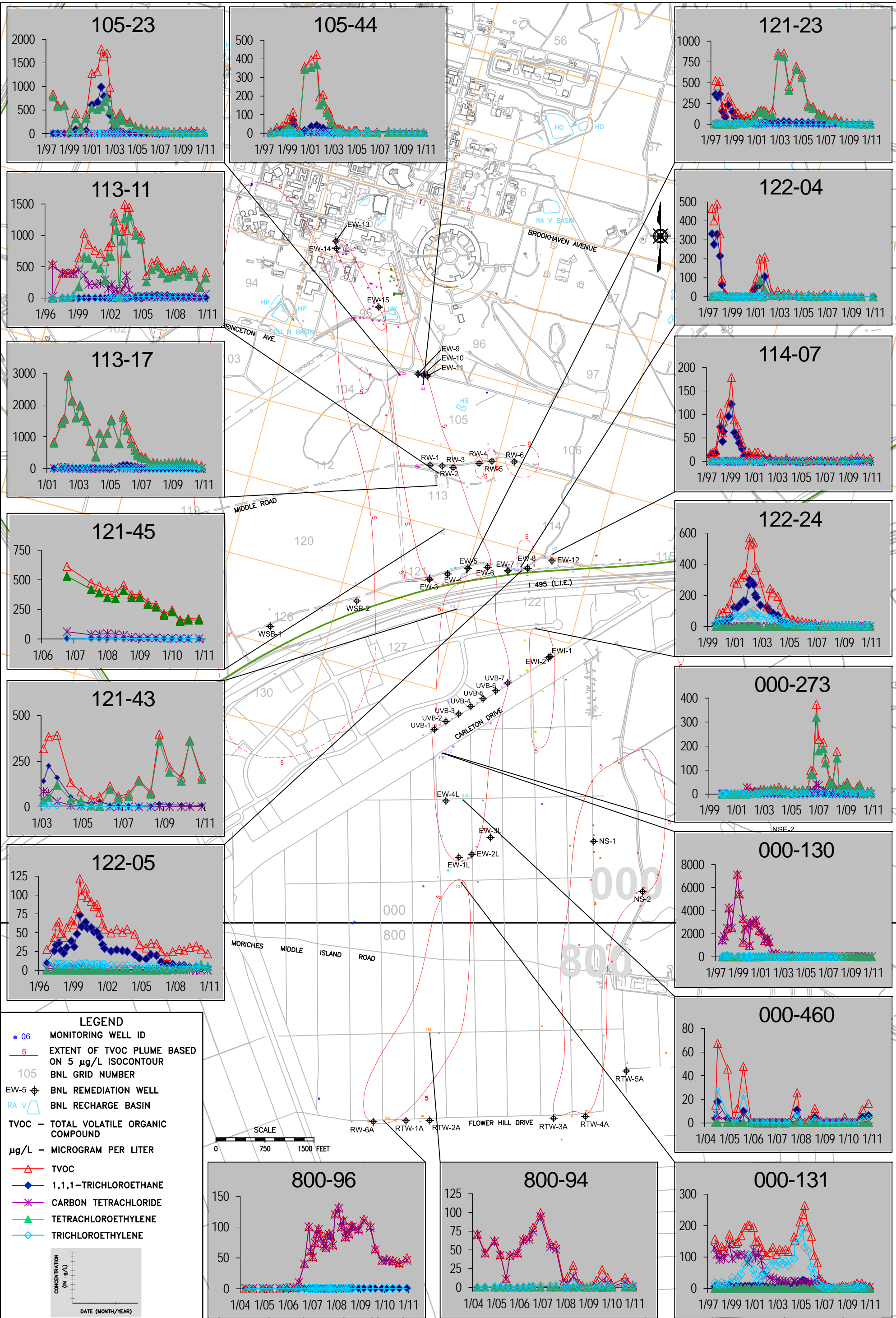
DATE (MONTH/YEAR)



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\\ORNT\GIS\GW_PROJECTS\FIVE YEAR REVIEW\Fig_06-4_022411.dwg



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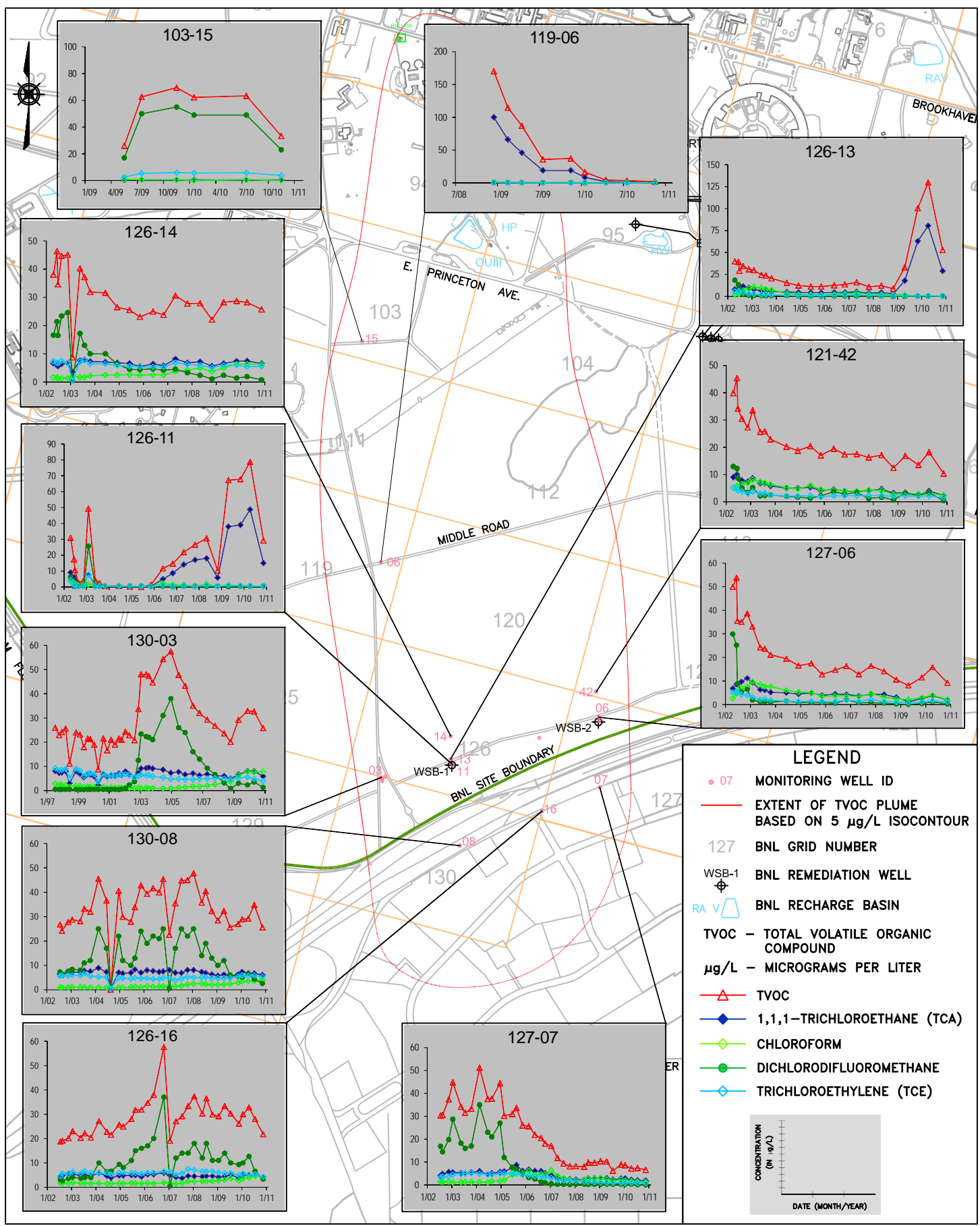
- 06 MONITORING WELL ID
- 5 EXTENT OF TVOC PLUME BASED ON 5 µg/L ISOCONTOUR
- 105 BNL GRID NUMBER
- EW-5 BNL REMEDIATION WELL
- RA V BNL RECHARGE BASIN
- TVOC - TOTAL VOLATILE ORGANIC COMPOUND
- µg/L - MICROGRAM PER LITER
- ▲ TVOC
- ◆ 1,1,1-TRICHLOROETHANE
- ✱ CARBON TETRACHLORIDE
- ▲ TETRACHLOROETHYLENE
- ◇ TRICHLOROETHYLENE

CONCENTRATION (µg/L)

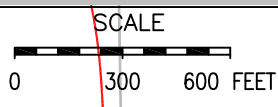
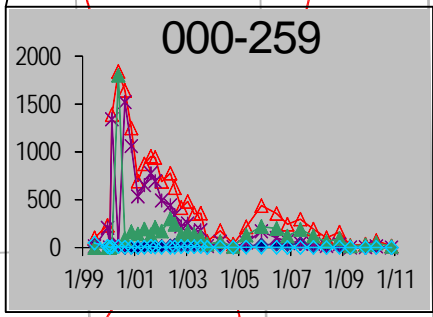
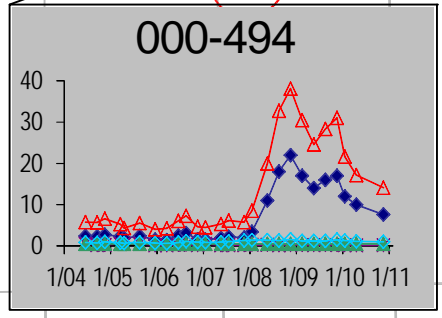
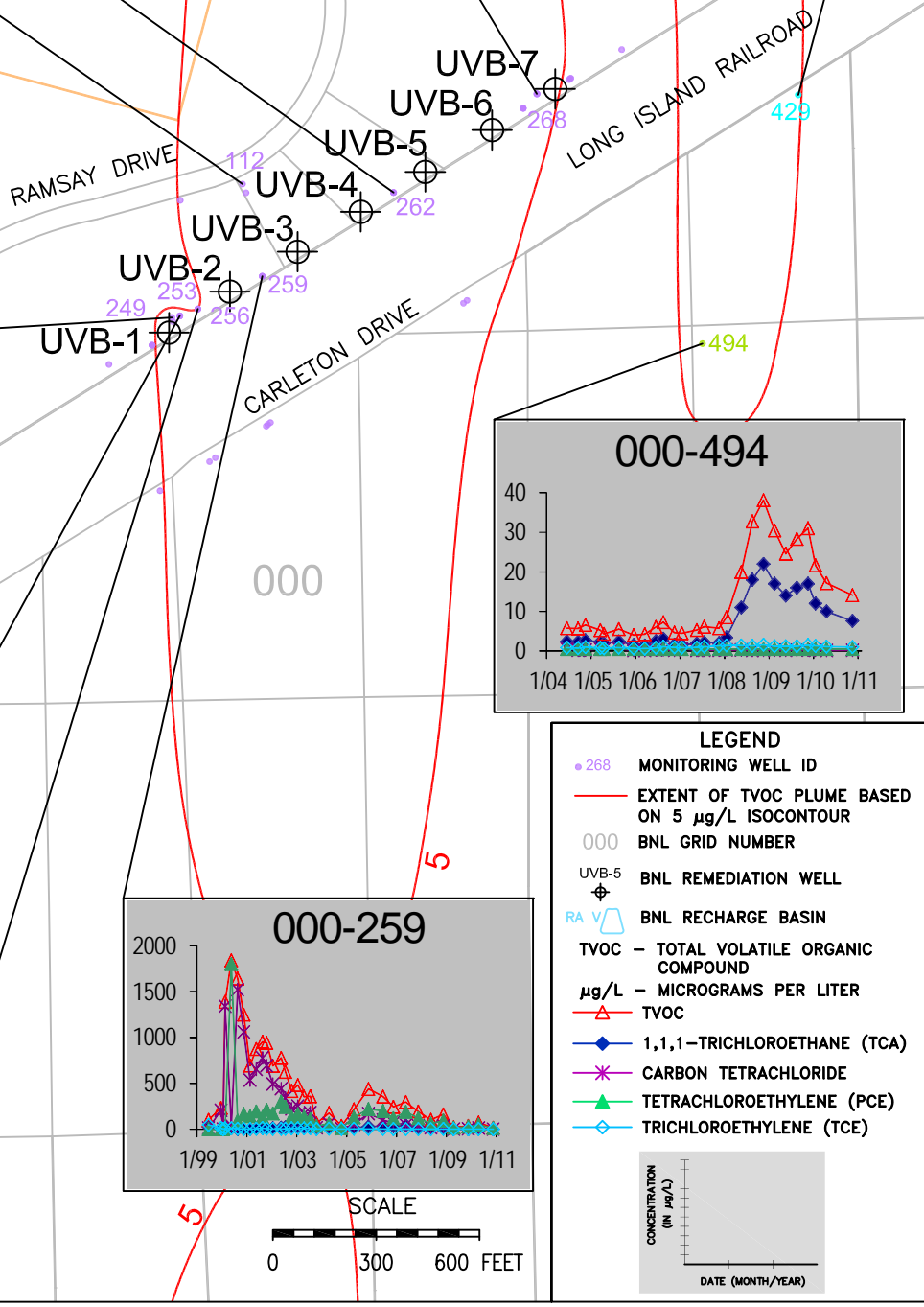
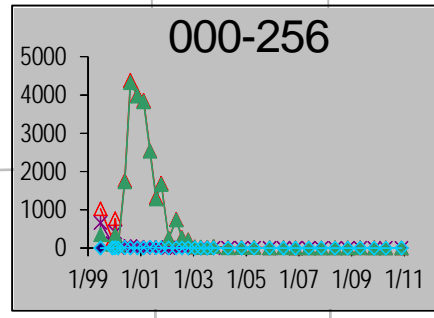
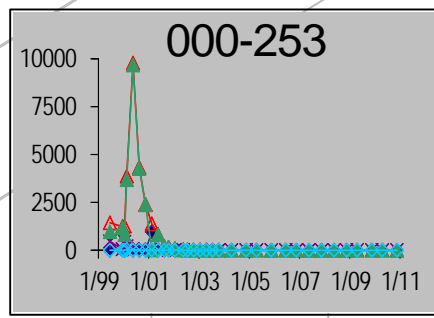
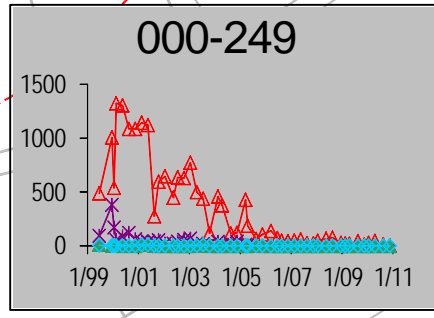
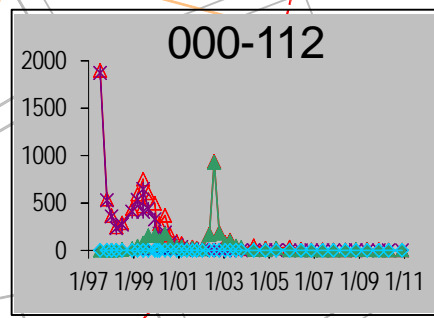
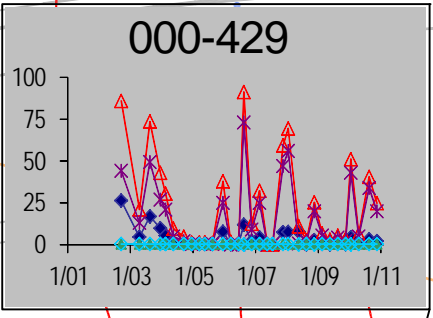
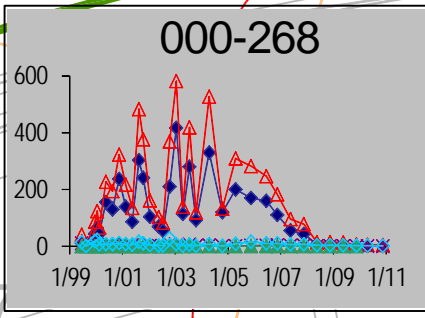
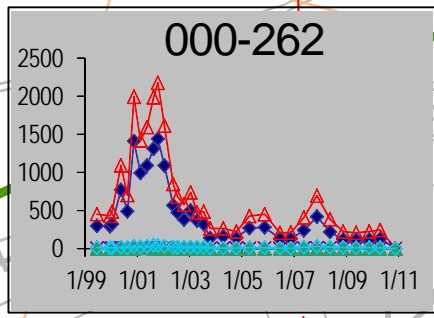
DATE (MONTH/YEAR)

<p>BROOKHAVEN NATIONAL LABORATORY</p> <p>ENVIRONMENTAL PROTECTION DIVISION</p>	<p>TITLE:</p> <p>OU III AND OU IV PLUME(S) HISTORICAL VOC TRENDS</p> <p>2010 BNL FIVE-YEAR REVIEW</p>	<p>DWN:</p> <p style="text-align: center;">AJZ</p>	<p>VT:HZ.:</p> <p style="text-align: center;">-</p>	<p>DATE:</p> <p style="text-align: center;">02/24/11</p>	<p>PROJECT NO.:</p> <p style="text-align: center;">-</p>
		<p>CHKD:</p> <p style="text-align: center;">JEB</p>	<p>APPD:</p> <p style="text-align: center;">WRD</p>	<p>REV.:</p> <p style="text-align: center;">-</p>	<p>NOTES:</p> <p style="text-align: center;">-</p>
	<p>FIGURE NO.:</p> <p style="text-align: center;">6-4</p>				

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LEGEND

- 268 MONITORING WELL ID
- EXTENT OF TVOC PLUME BASED ON 5 µg/L ISOCONTOUR
- 000 BNL GRID NUMBER
- UVB-5 BNL REMEDIATION WELL
- RA ∇ BNL RECHARGE BASIN
- TVOC - TOTAL VOLATILE ORGANIC COMPOUND
- µg/L - MICROGRAMS PER LITER
- △ TVOC
- ◆ 1,1,1-TRICHLOROETHANE (TCA)
- * CARBON TETRACHLORIDE
- ▲ TETRACHLOROETHYLENE (PCE)
- ◇ TRICHLOROETHYLENE (TCE)

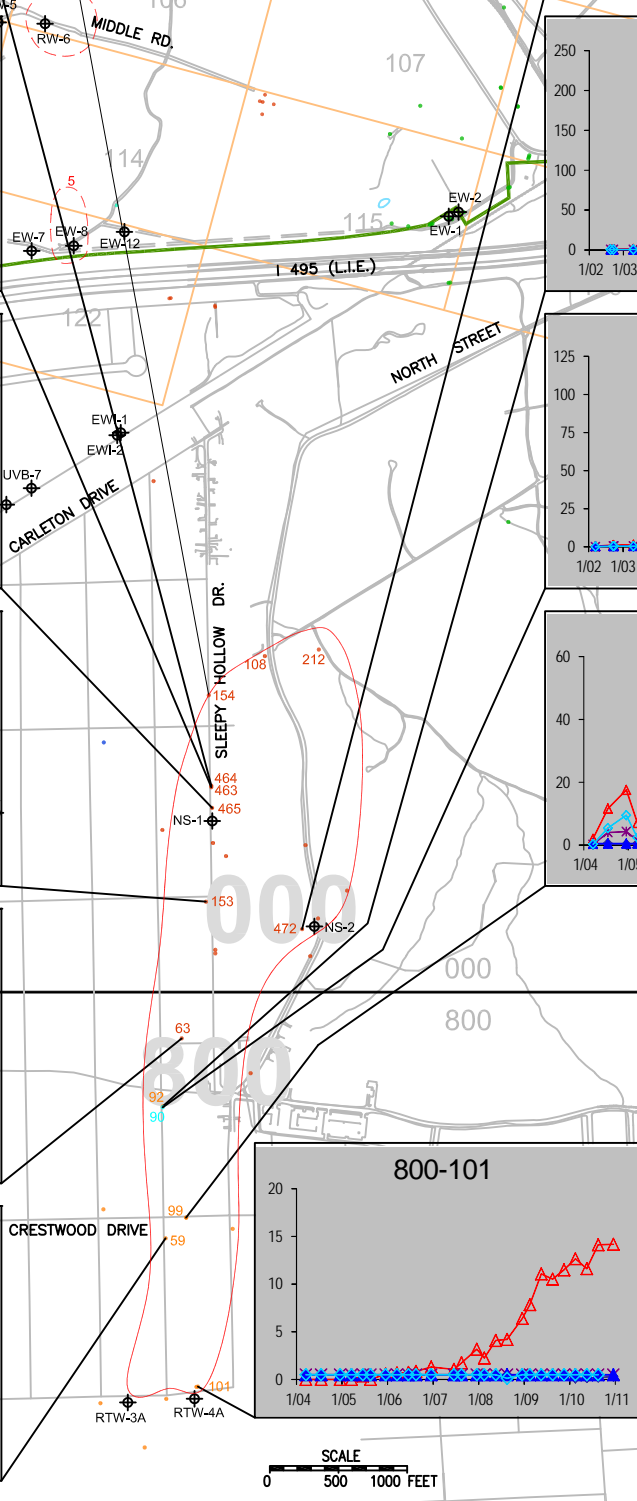
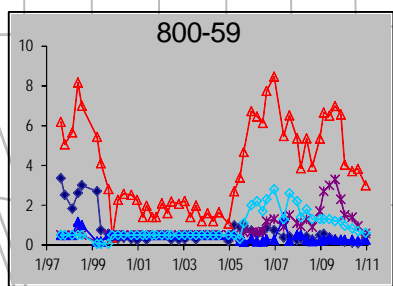
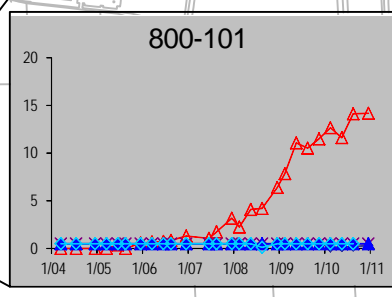
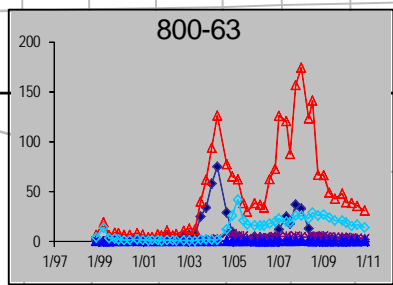
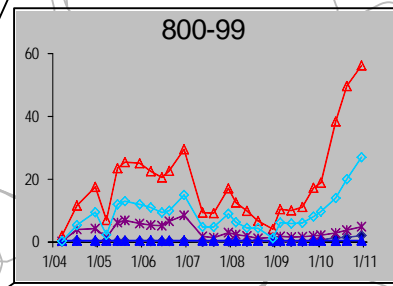
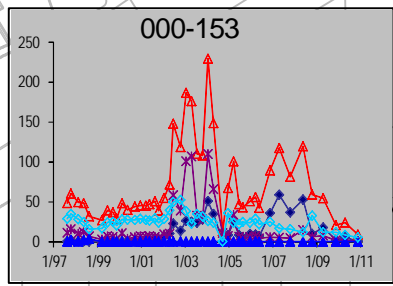
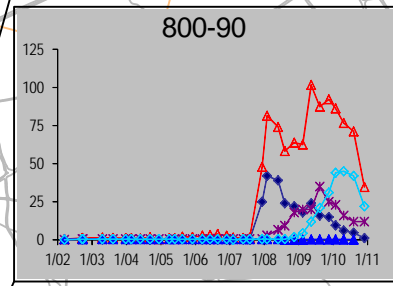
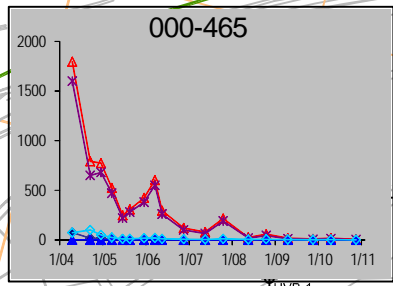
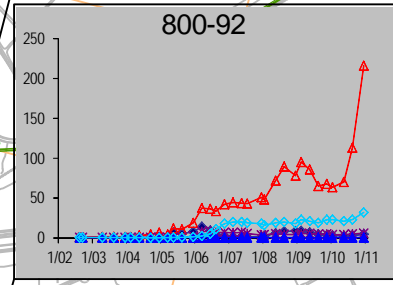
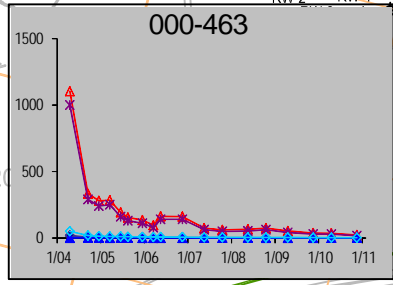
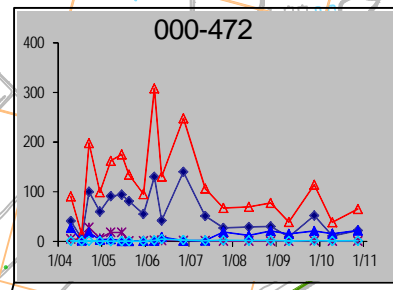
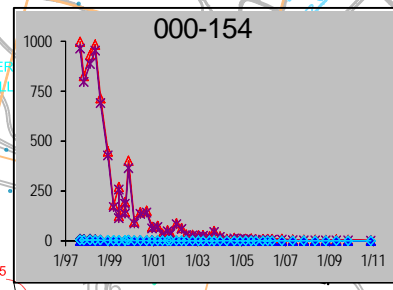
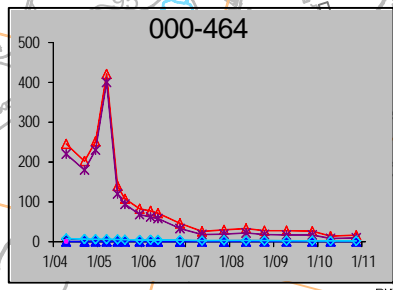


TITLE: **OU III INDUSTRIAL PARK HISTORICAL VOC TRENDS**

2010 BNL FIVE-YEAR REVIEW

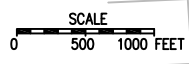
DWN: LR	VT: HZ.: -	DATE: 02/24/11	PROJECT NO.: -
CHKD: JEB	APPD: WRD	REV.: -	NOTES: -
FIGURE NO.:			6-6

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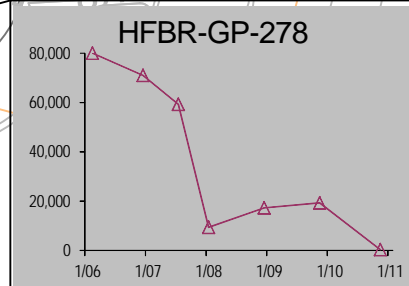
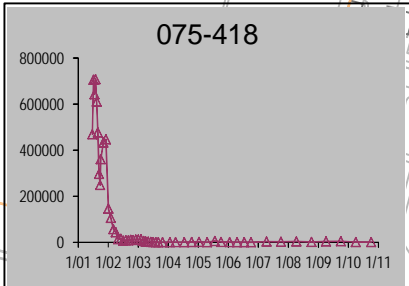
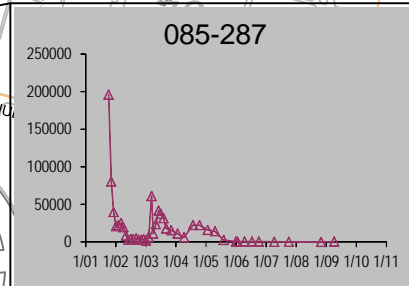
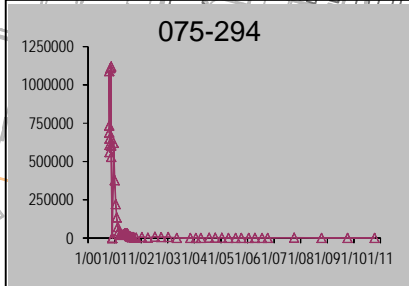
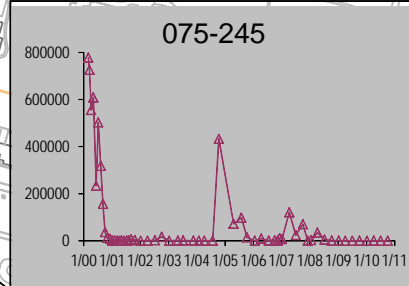
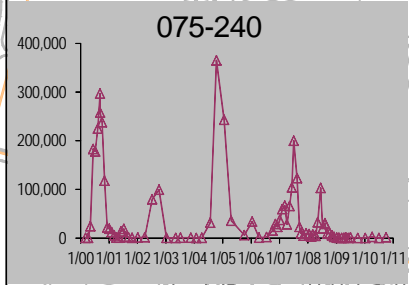
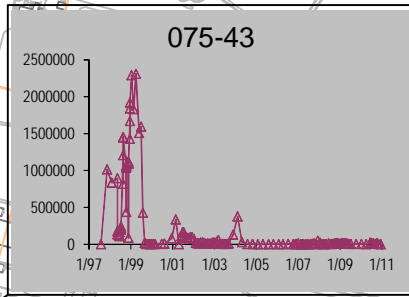
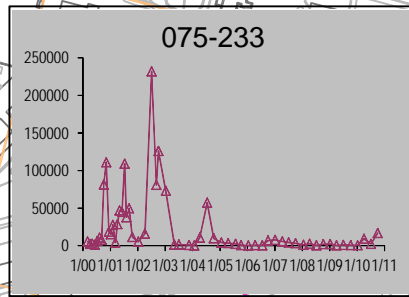
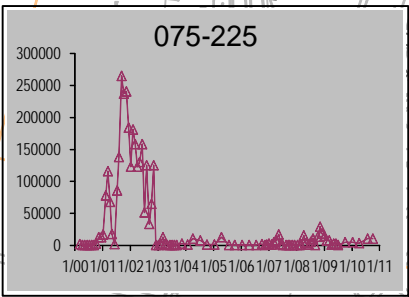
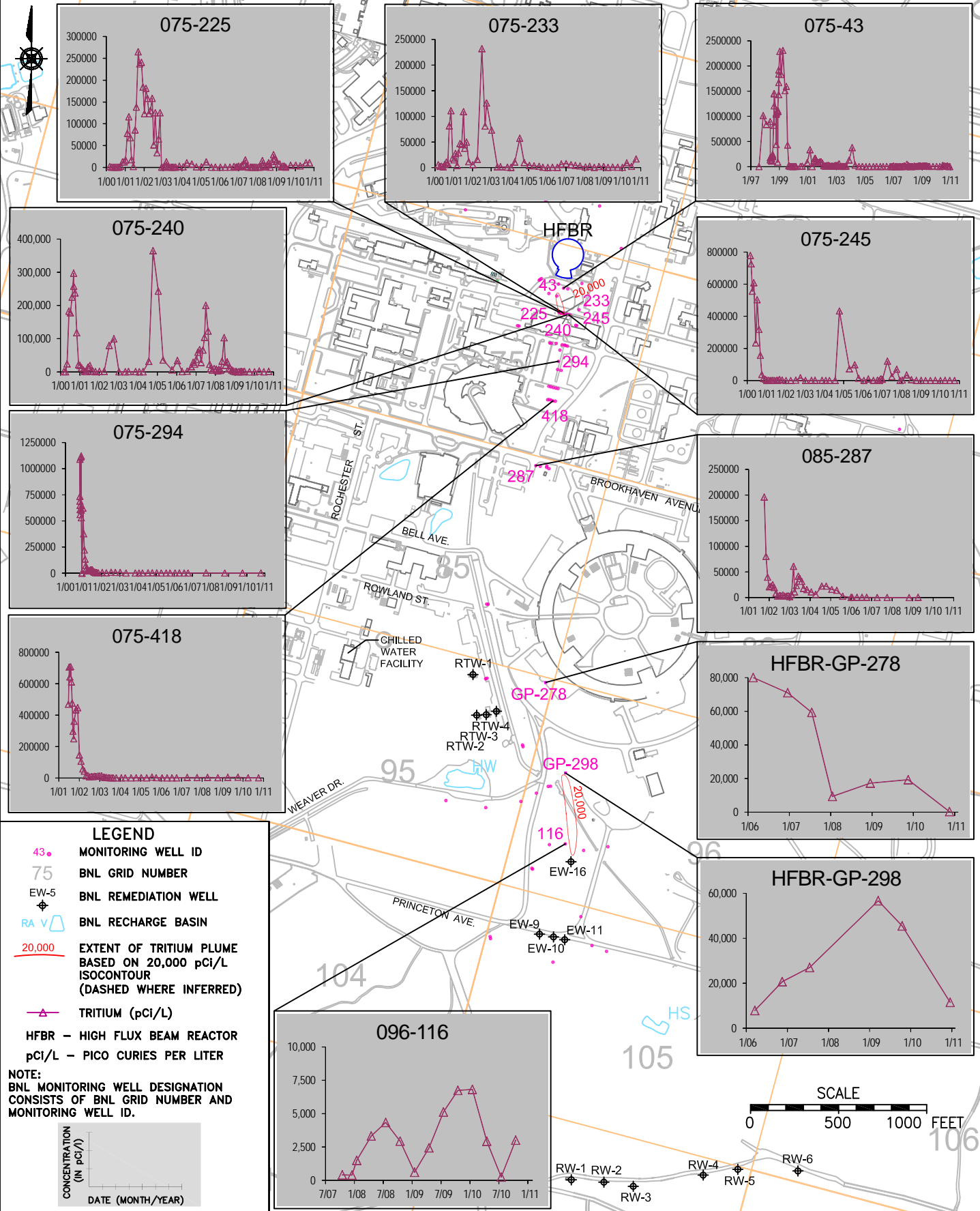
- 108 MONITORING WELL ID
- 5 EXTENT OF TVOC PLUME BASED ON 5 µg/L ISOCONTOUR
- 000 BNL GRID NUMBER
- NS-1 ⊕ BNL REMEDIATION WELL
- TVOC - TOTAL VOLATILE ORGANIC COMPOUND
- µg/L - MICROGRAMS PER LITER
- △ TVOC
- ◆ 1,1,1-TRICHLOROETHANE (TCA)
- ✱ CARBON TETRACHLORIDE
- ▲ TETRACHLOROETHYLENE (PCE)
- ◇ TRICHLOROETHYLENE (TCE)



TITLE:
NORTH STREET (OU I/IV FORMER LANDFILL, CHEMICAL/ANIMAL HOLES) HISTORICAL VOC TRENDS
 2010 BNL FIVE-YEAR REVIEW

DWN: AJZ	VT.HZ.: -	DATE: 02/24/11	PROJECT NO.: -
CHKD: JEB	APPD: WRD	REV.: -	NOTES: -
FIGURE NO.:		6-7	

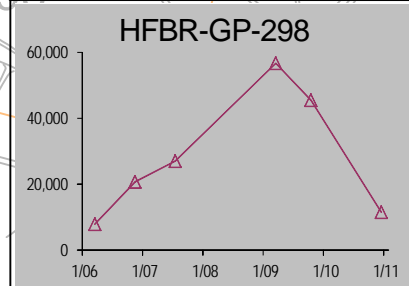
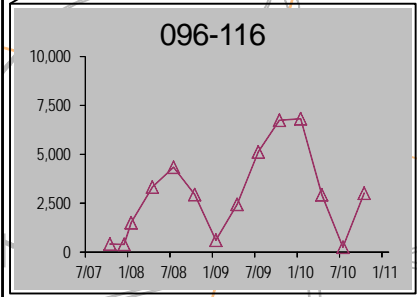
\\OERNT\GIS\GW_PROJECTS\Five Year Review - 2010\Fig_6-8 022211.DWG



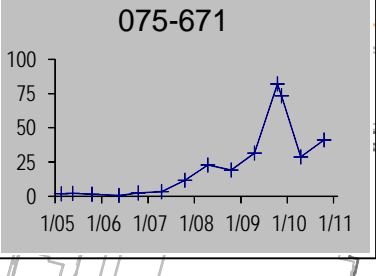
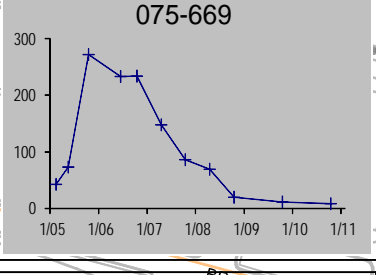
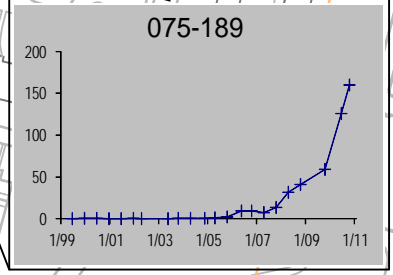
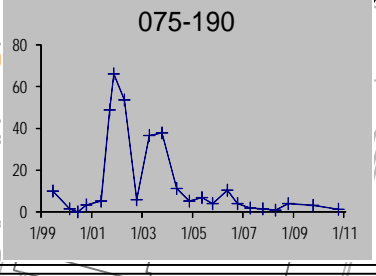
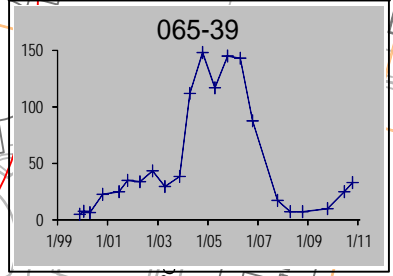
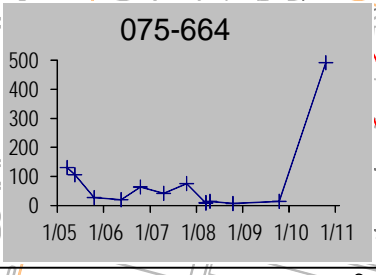
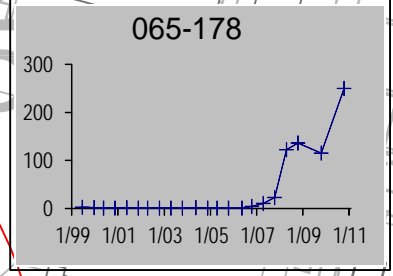
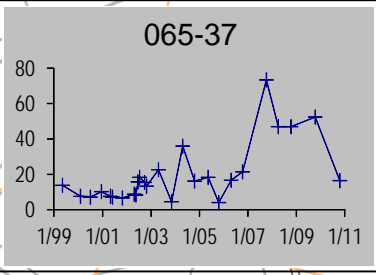
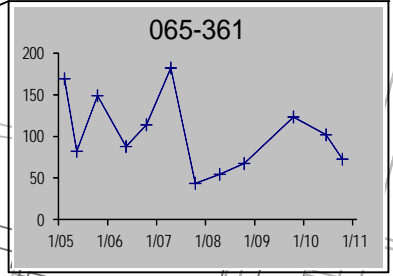
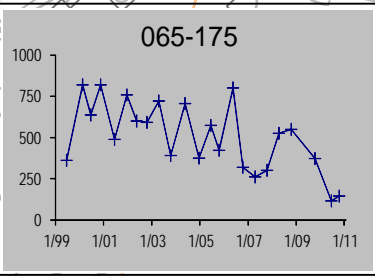
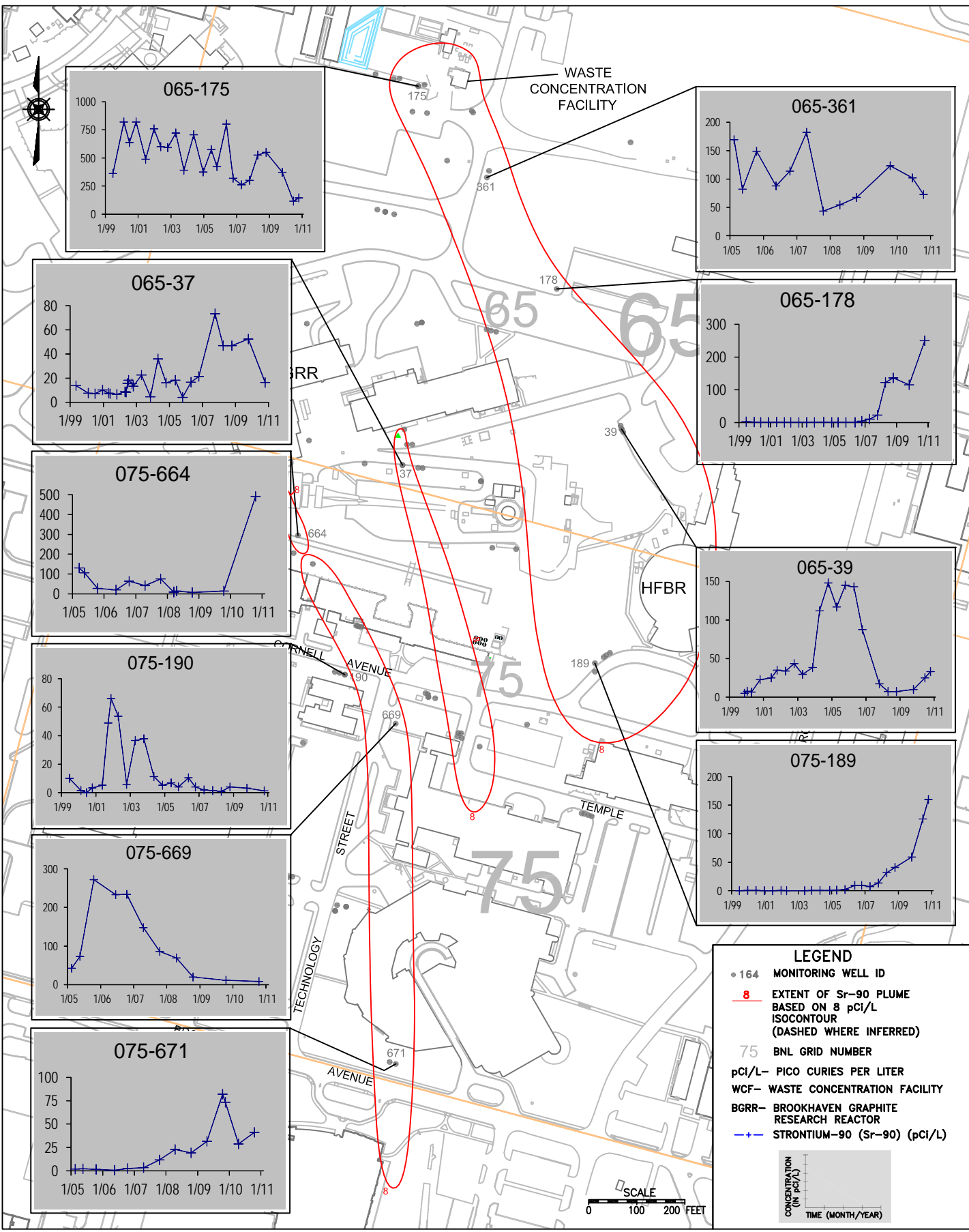
LEGEND

- ▲ MONITORING WELL ID
- 75 BNL GRID NUMBER
- EW-5 BNL REMEDIATION WELL
- RA BNL RECHARGE BASIN
- 20,000 EXTENT OF TRITIUM PLUME BASED ON 20,000 pCi/L ISOCONTOUR (DASHED WHERE INFERRED)
- ▲ TRITIUM (pCi/L)
- HFBR - HIGH FLUX BEAM REACTOR
- pCi/L - PICO CURIES PER LITER

NOTE:
BNL MONITORING WELL DESIGNATION CONSISTS OF BNL GRID NUMBER AND MONITORING WELL ID.



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LEGEND

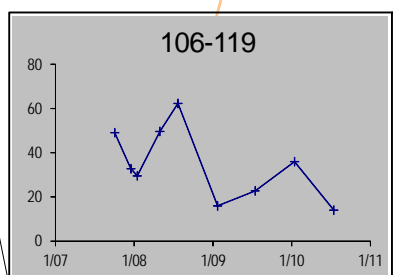
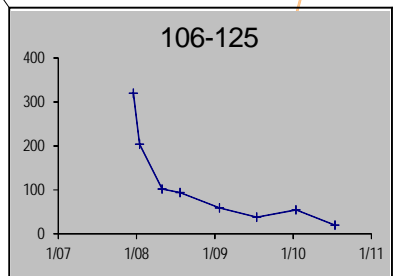
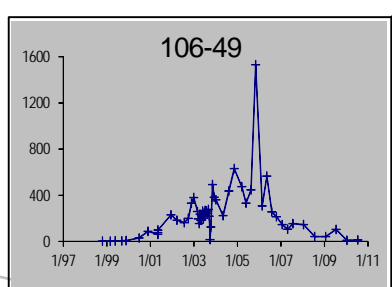
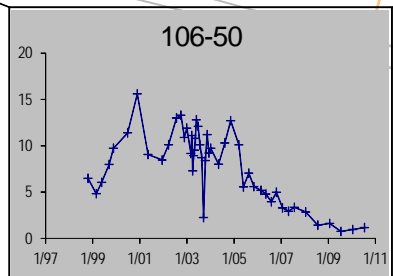
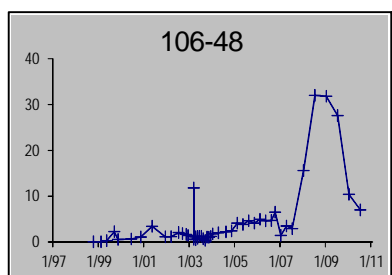
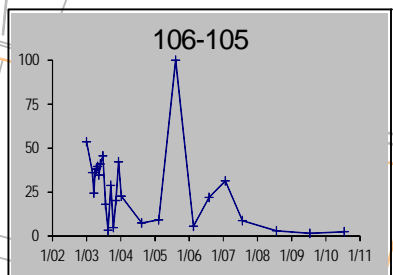
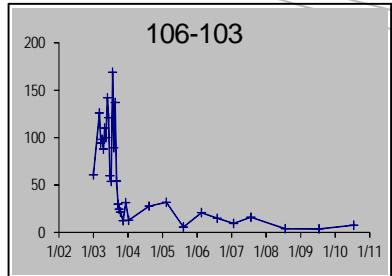
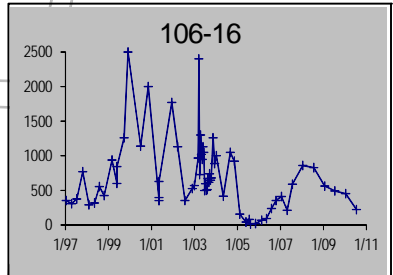
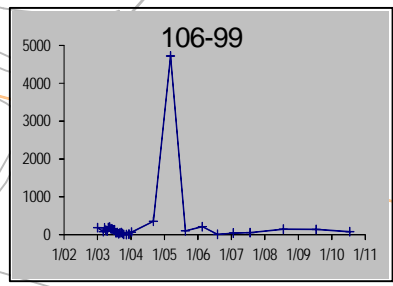
- 164 MONITORING WELL ID
- 8 EXTENT OF Sr-90 PLUME BASED ON 8 pCi/L ISOCONTOUR (DASHED WHERE INFERRED)
- 75 BNL GRID NUMBER
- pCi/L- PICO CURIES PER LITER
- WCF- WASTE CONCENTRATION FACILITY
- BGRR- BROOKHAVEN GRAPHITE RESEARCH REACTOR
- + - STRONTIUM-90 (Sr-90) (pCi/L)

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FORMER LANDFILL

FORMER CHEMICAL/ANIMAL HOLES



106 106

PRINCETON AVE.

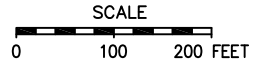
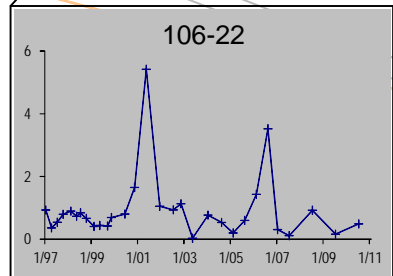
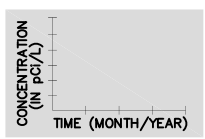
SR90 EW-2

SR90 EW-3

MIDDLE RD.

LEGEND

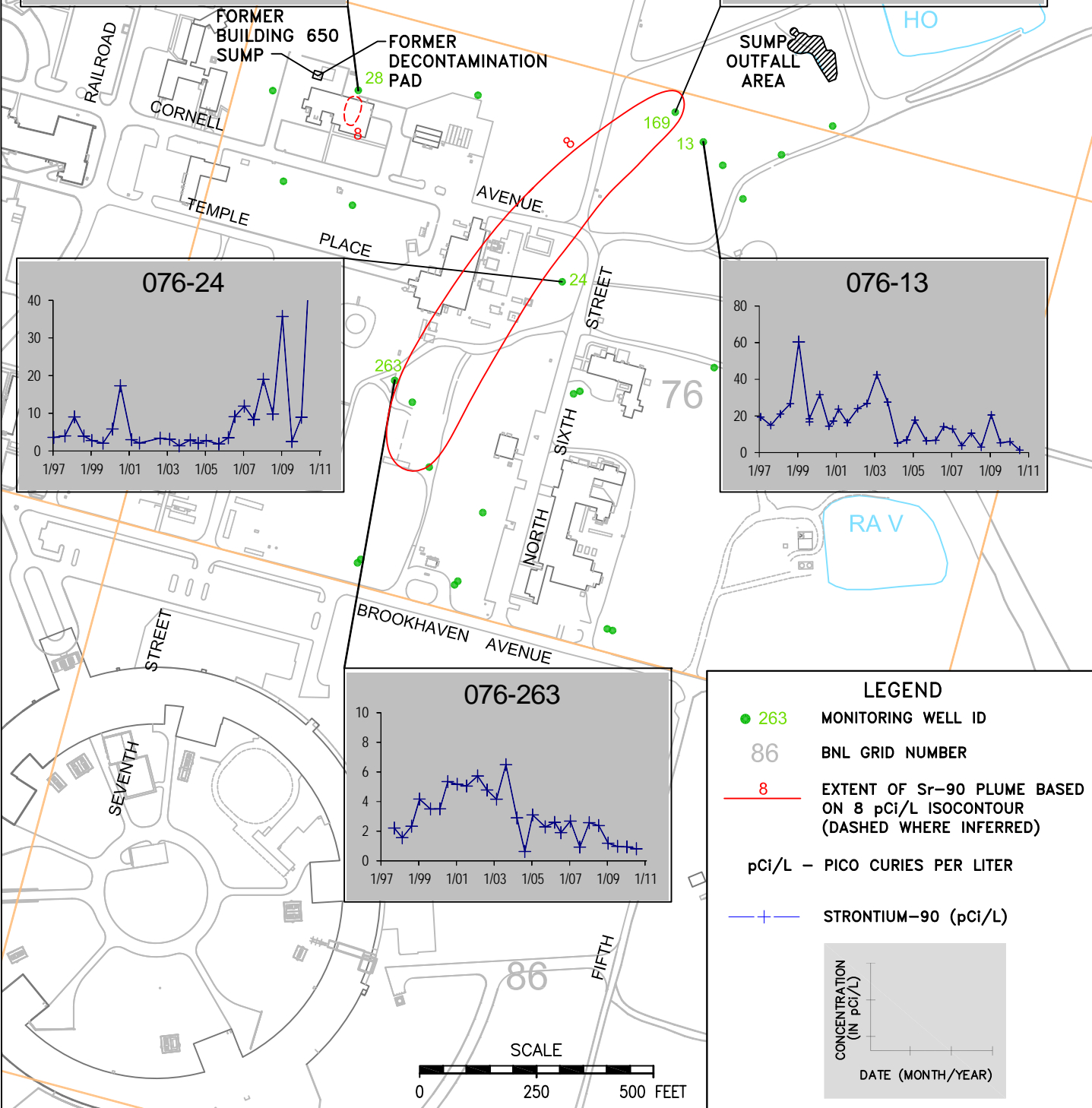
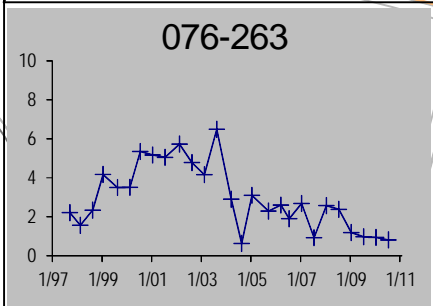
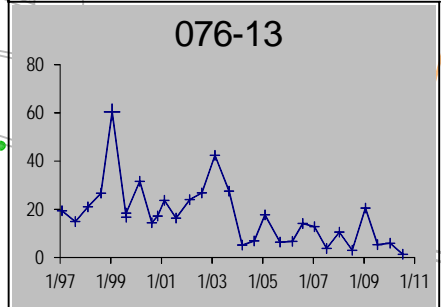
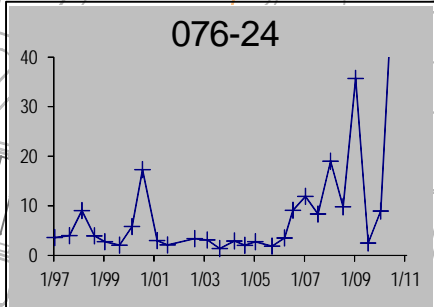
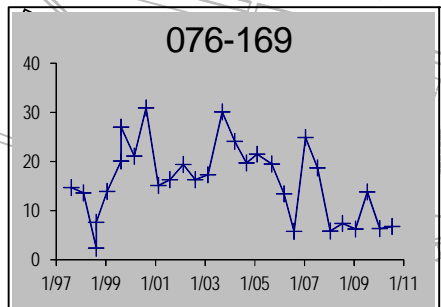
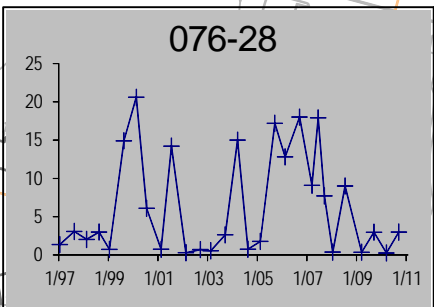
- 64 MONITORING WELL ID
- ⊕ SR90 EW-1 BNL REMEDIATION WELL
- 8 EXTENT OF STRONTIUM-90 (Sr-90) PLUME BASED ON 8 pCi/L ISOCONTOUR (DASHED WHERE INFERRED)
- pCi/L - PICO CURIES PER LITER
- 106 BNL GRID NUMBER
- +— Sr-90 (pCi/L)



TITLE:
**OU III CHEMICAL/ANIMAL HOLES
 HISTORICAL Sr-90 TRENDS**
 2010 BNL FIVE-YEAR REVIEW

DWN: DH	VT:HZ.: —	DATE: 02/23/11	PROJECT NO.: —
CHKD: JEB	APPD: WRD	REV.: —	NOTES: —
FIGURE NO.:			6-10

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LEGEND

- 263 MONITORING WELL ID
- 86 BNL GRID NUMBER
- - - 8 EXTENT OF Sr-90 PLUME BASED ON 8 pCi/L ISOCONTOUR (DASHED WHERE INFERRED)
- pCi/L - PICO CURIES PER LITER
- +— STRONTIUM-90 (pCi/L)

CONCENTRATION
(IN pCi/L)

DATE (MONTH/YEAR)



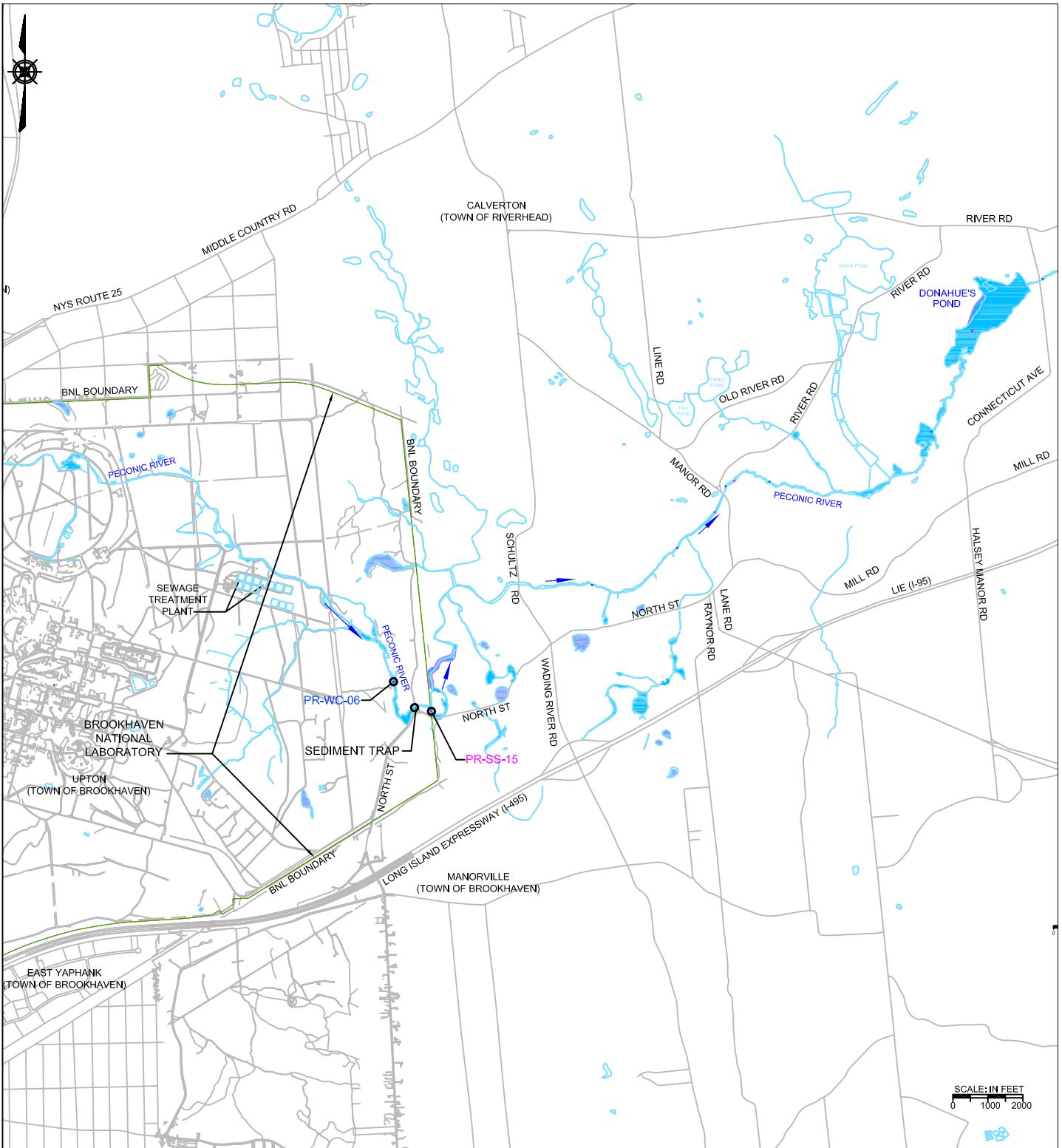
TITLE:

**OU IV AOC 6
HISTORICAL Sr-90 TRENDS**



2010 BNL FIVE-YEAR REVIEW

DWN:	VT: HZ.:	DATE:	PROJECT NO.:
DH	—	02/23/11	—
CHKD:	APPD:	REV.:	NOTES:
JEB	WRD	—	—
FIGURE NO.:			6-11

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LEGEND

-  PECONIC RIVER
-  ISOLATED POND
-  MARSH AREAS
-  PR-WC-06 SURFACE WATER SAMPLING STATION ID
-  PR-SS-15 SEDIMENT SAMPLING STATION ID
-  PECONIC RIVER FLOW DIRECTION

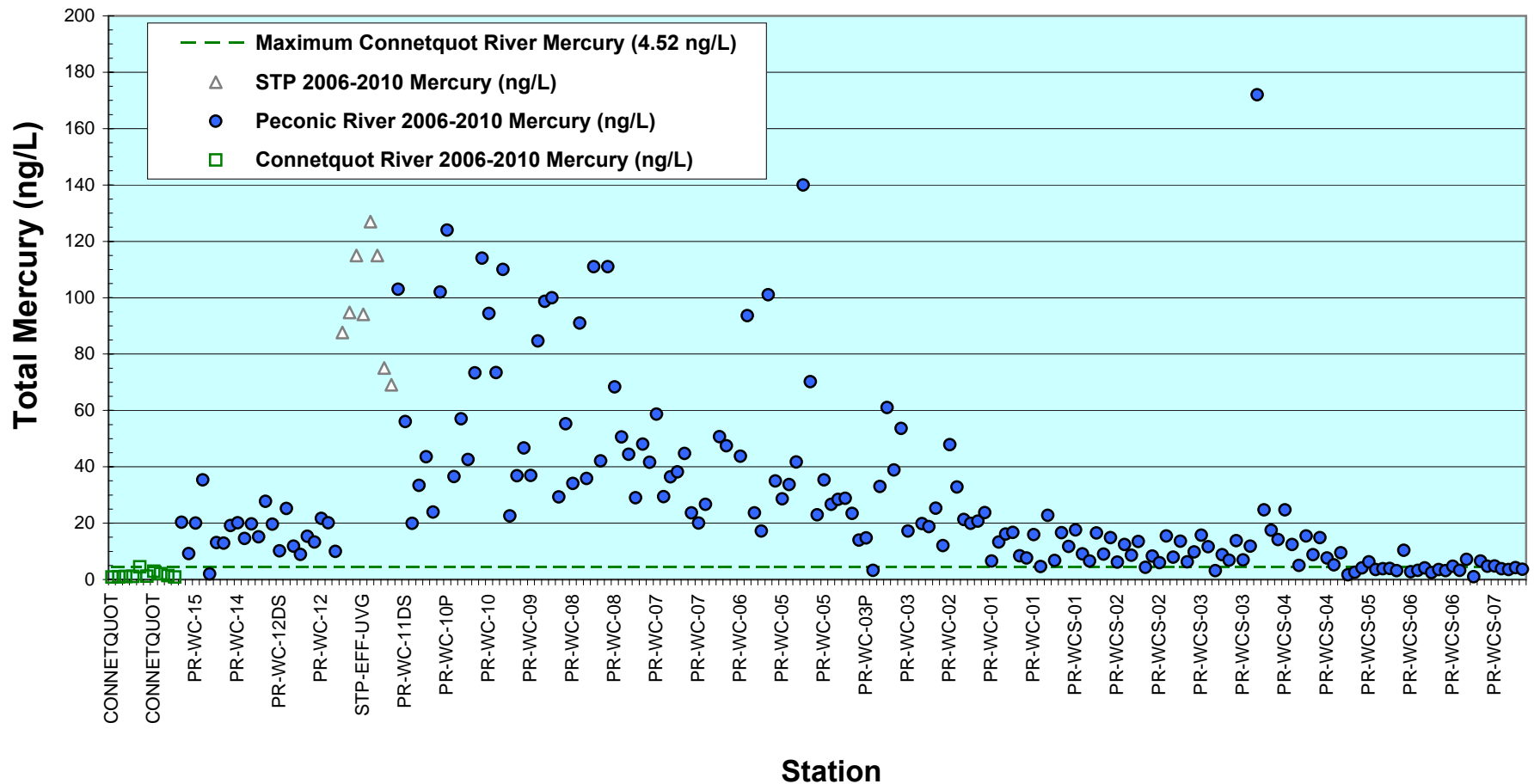


TITLE: **PECONIC RIVER
SEDIMENT TRAP AND
SUPPLEMENTAL REMOVAL LOCATIONS**

2010 BNL FIVE-YEAR REVIEW

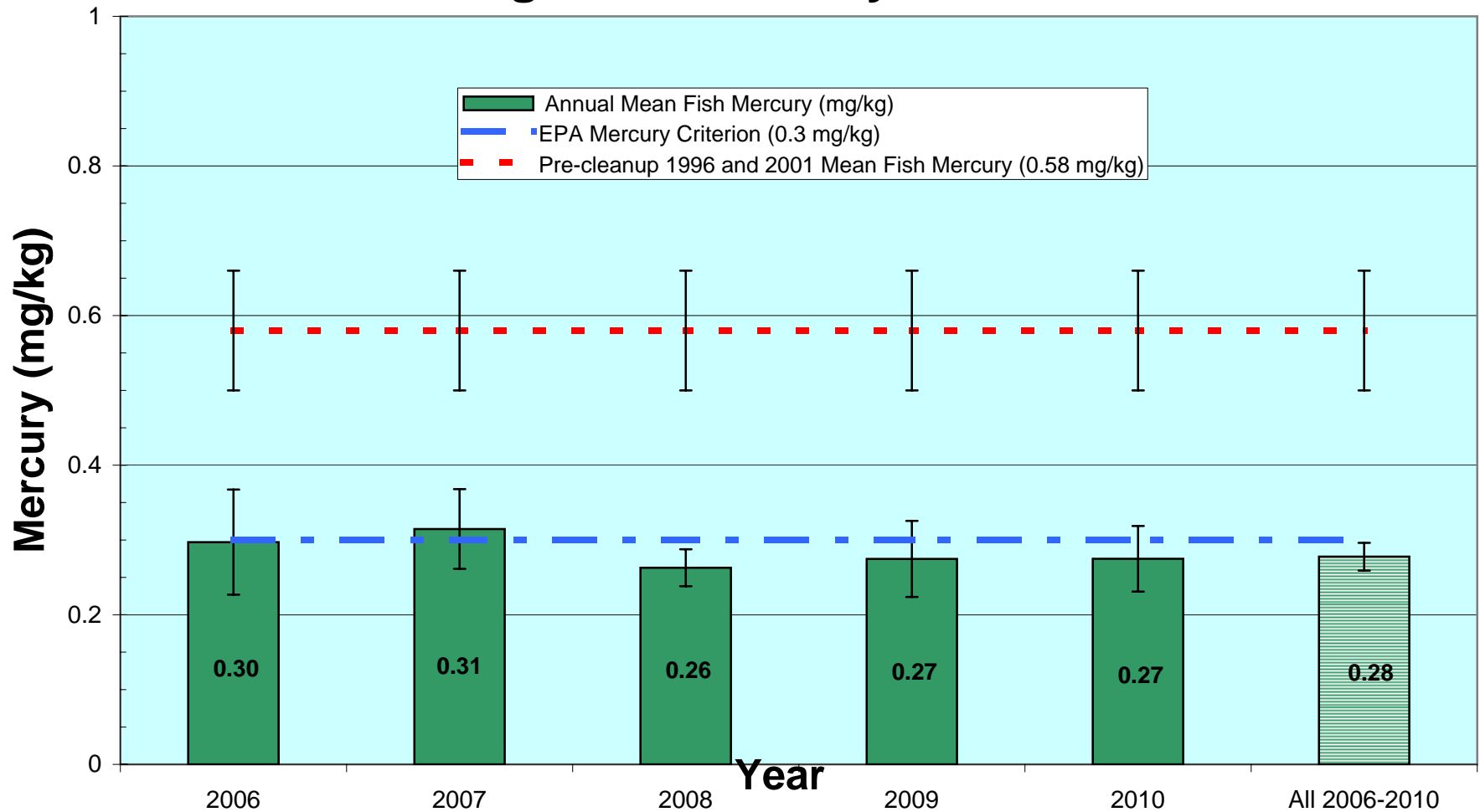
DWN: AJZ	VT.HZ.: -	DATE: 03/02/11	PROJECT NO.: -
CHKD: WM	APPD: -	REV.: -	NOTES: -
FIGURE NO.:		6-12	

Figure 6-13 2006 - 2010 Peconic River and Connetquot River and 2007 - 2010 STP Mercury Concentrations

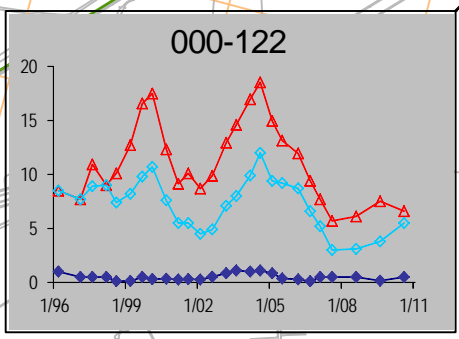
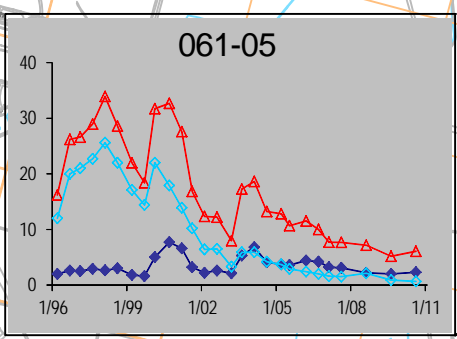
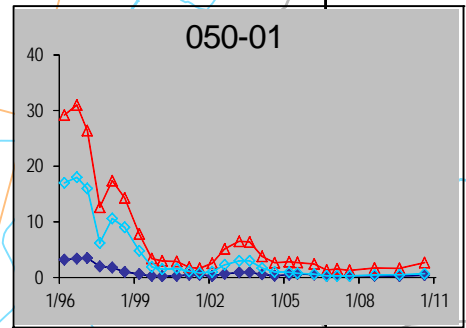
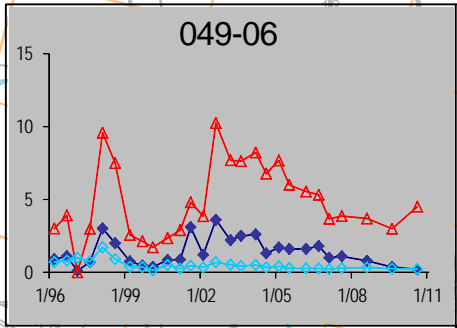


(Two values at PR-WC-06 and one value at PR-WC-03 are beyond the scale of this figure,
876 ng/L, 1,360 ng/L and 374 ng/L, respectively.)

Figure 6-14 2006 - 2010 Peconic River Average Fish Mercury Concentrations

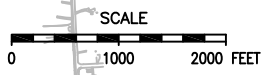


Error bars represent the mean plus and minus the 95 percent confidence limits



LEGEND

- 122 MONITORING WELL ID
- 5 EXTENT OF TVOC PLUME BASED ON 5 µg/L ISOCONTOUR (DASHED WHERE INFERRED)
- 50 BNL GRID NUMBER
- TVOC - TOTAL VOLATILE ORGANIC COMPOUND
- µg/L - MICROGRAMS PER LITER
- △ TVOC
- ◇ TRICHLOROETHYLENE (TCE)
- ◆ 1,1,1-TRICHLOROETHANE (TCA)



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<p>BROOKHAVEN NATIONAL LABORATORY</p> <p>ENVIRONMENTAL PROTECTION DIVISION</p>	TITLE:	OU V SEWAGE TREATMENT PLANT HISTORICAL VOC TRENDS	DWN:	AJZ	VT.HZ.:	-	DATE:	02/24/11	PROJECT NO.:	-
		2010 BNL FIVE-YEAR REVIEW	CHKD:	JEB	APPD:	WRD	REV.:	-	NOTES:	-
			FIGURE NO.:	6-15						

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