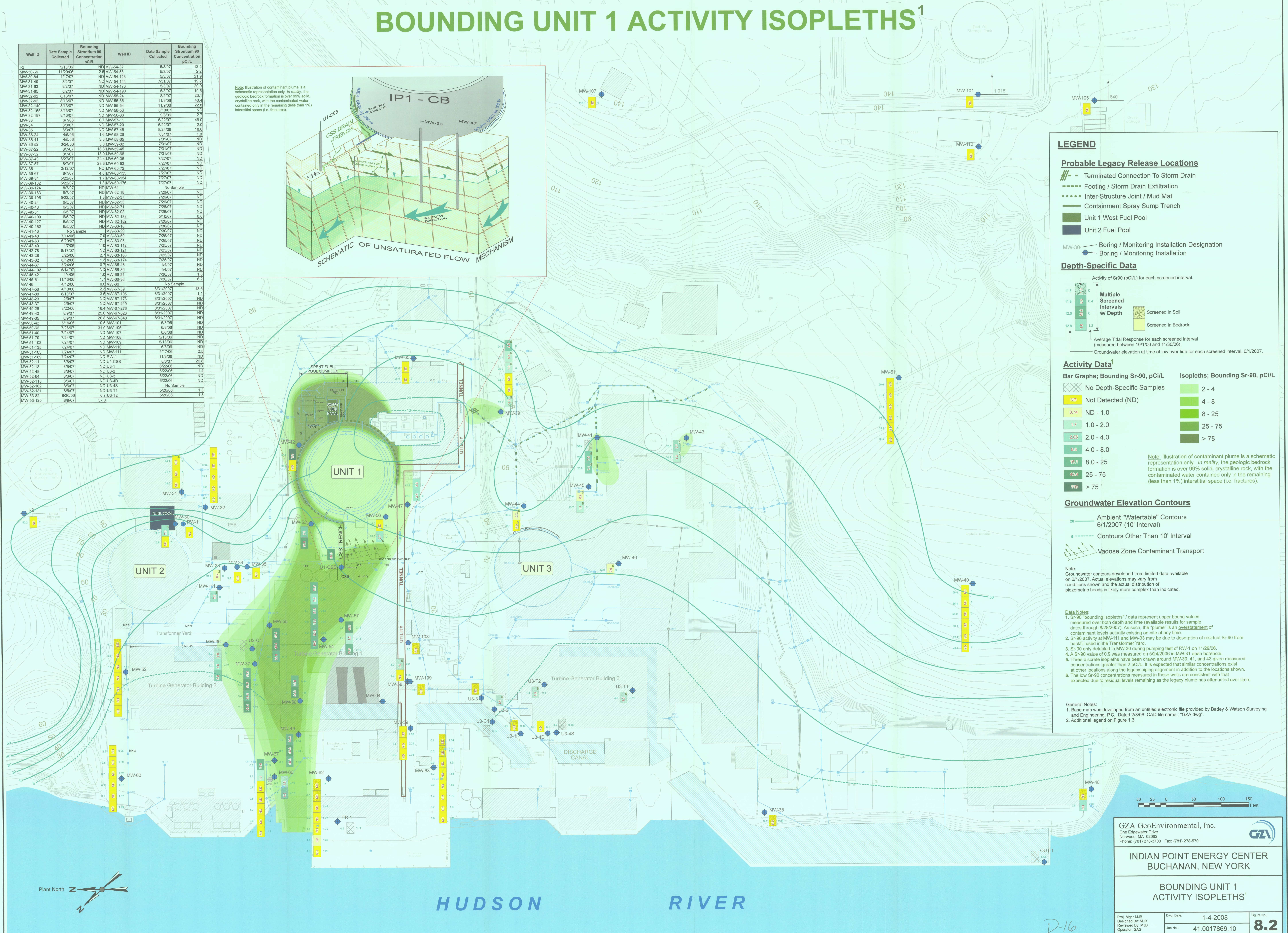
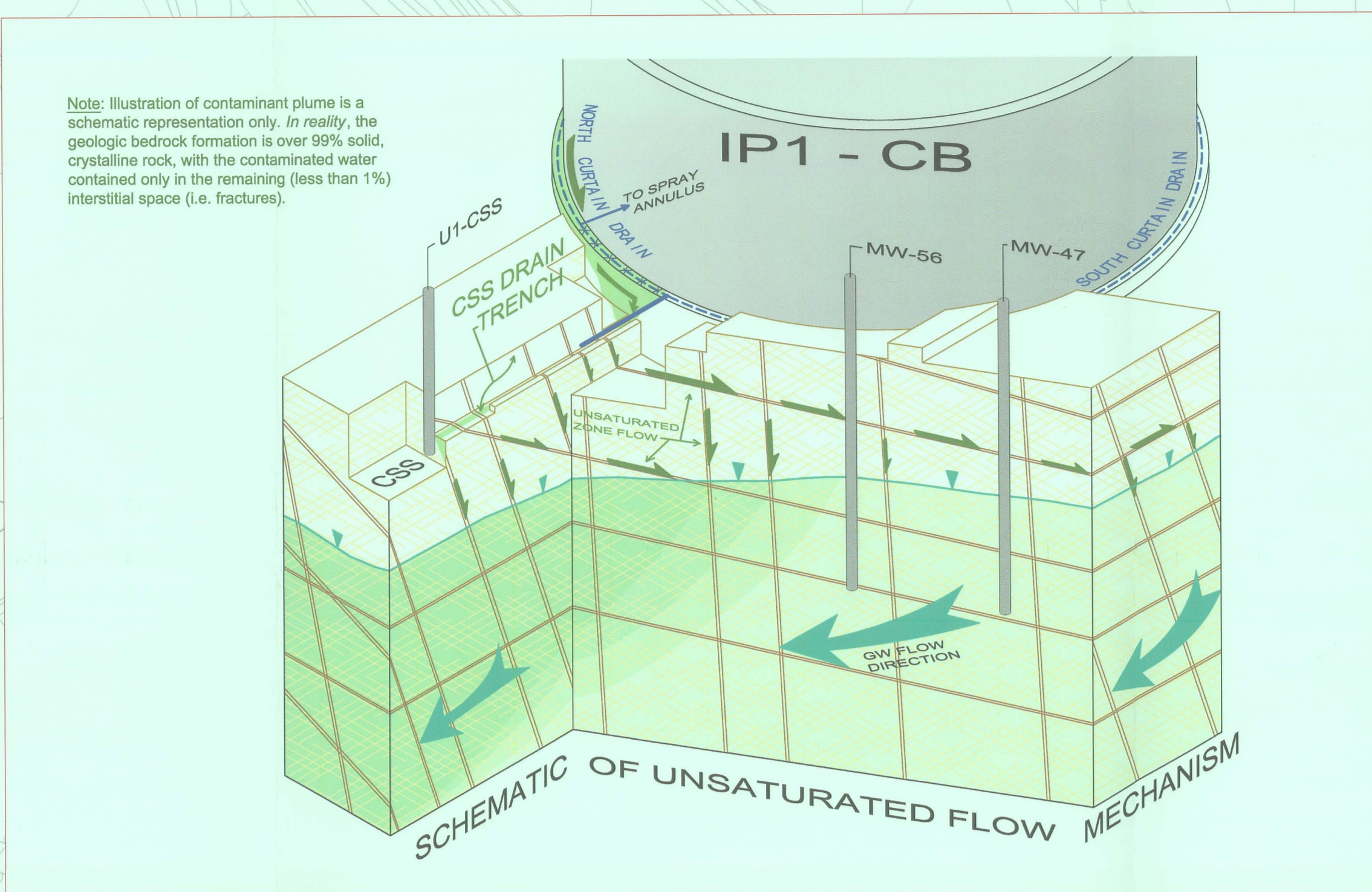


BOUNDING UNIT 1 ACTIVITY ISOPLETHS¹

Well ID	Date Sample Collected	Bounding Strontium 90 Concentration pCi/L	Well ID	Date Sample Collected	Bounding Strontium 90 Concentration pCi/L
I2	5/13/06	ND	MW-64-37	5/3/07	12.5
MW-30-69	11/29/06	2.5	MW-54-66	5/3/07	2.2
MW-30-84	1/17/07	ND	MW-54-123	5/3/07	21.9
MW-31-49	8/2/07	ND	MW-54-144	7/31/07	19.2
MW-31-83	8/2/07	ND	MW-54-173	5/3/07	20.9
MW-31-85	8/2/07	ND	MW-54-199	5/3/07	19.5
MW-32-82	8/13/07	ND	MW-55-24	6/29/07	23.1
MW-32-86	8/13/07	ND	MW-55-36	11/9/06	40.4
MW-32-140	8/13/07	ND	MW-55-54	11/9/06	22.8
MW-32-165	8/13/07	ND	MW-56-83	8/10/07	ND
MW-32-187	8/13/07	ND	MW-56-83	9/8/06	2.7
MW-33	6/7/06	0.7	MW-57-11	6/22/07	46.0
MW-34	8/2/07	ND	MW-57-20	6/22/07	ND
MW-35	8/2/07	ND	MW-57-45	8/24/06	18.8
MW-36-24	4/8/06	1.8	MW-58-26	7/31/07	1.0
MW-36-41	4/8/06	3.3	MW-58-65	7/31/07	ND
MW-36-52	3/24/06	5.0	MW-58-32	7/31/07	ND
MW-37-22	8/7/07	18.3	MW-59-45	7/31/07	ND
MW-37-32	8/7/07	18.3	MW-59-88	7/31/07	ND
MW-37-40	6/27/07	24.4	MW-59-35	7/27/07	ND
MW-37-57	8/7/07	23.3	MW-59-53	7/27/07	ND
MW-38-102	5/22/07	1.3	MW-59-72	7/27/07	ND
MW-38-124	8/7/07	ND	MW-59-135	7/27/07	ND
MW-38-183	8/7/07	ND	MW-59-154	7/27/07	ND
MW-38-185	5/22/07	1.3	MW-60-178	7/27/07	ND
MW-40-24	6/5/07	ND	MW-61	No Sample	ND
MW-40-46	6/5/07	ND	MW-62-18	7/26/07	ND
MW-40-61	6/5/07	ND	MW-62-37	7/26/07	ND
MW-40-100	6/5/07	ND	MW-62-71	7/26/07	ND
MW-40-127	6/5/07	ND	MW-62-92	7/26/07	ND
MW-40-182	6/5/07	ND	MW-62-138	5/10/07	0.8
MW-41-13	No Sample	ND	MW-62-182	7/26/07	ND
MW-41-40	7/14/06	7.0	MW-63-18	7/30/07	ND
MW-41-63	6/20/07	7.1	MW-63-50	7/25/07	ND
MW-42-49	4/7/06	110	MW-63-112	7/25/07	ND
MW-42-78	8/17/07	ND	MW-63-121	7/25/07	ND
MW-43-38	5/25/06	2.7	MW-63-163	7/25/07	ND
MW-43-62	6/12/06	1.3	MW-63-174	7/25/07	ND
MW-43-67	5/24/06	0.7	MW-64-48	1/4/07	ND
MW-44-102	8/14/07	ND	MW-64-50	1/4/07	ND
MW-44-42	4/4/06	1.0	MW-66-21	7/30/07	1.8
MW-44-61	11/13/06	1.7	MW-66-36	7/30/07	8.2
MW-46	4/13/06	0.8	MW-66	No Sample	18.8
MW-47-58	4/13/06	2.3	MW-67-39	8/31/2007	1.1
MW-47-80	8/10/07	3.8	MW-67-105	8/31/2007	1.1
MW-48-23	2/9/07	ND	MW-67-173	8/31/2007	ND
MW-48-37	2/9/07	ND	MW-67-219	8/31/2007	ND
MW-48-26	3/22/06	18.4	MW-67-276	8/31/2007	ND
MW-49-41	8/9/07	25.8	MW-67-323	8/31/2007	ND
MW-49-55	8/9/07	20.8	MW-67-340	8/31/2007	ND
MW-50-42	5/19/06	19.5	MW-101	8/8/06	ND
MW-50-66	7/24/07	31	MW-105	8/8/06	ND
MW-51-40	7/24/07	ND	MW-107	8/8/06	ND
MW-51-79	7/24/07	ND	MW-108	5/13/06	ND
MW-51-102	7/24/07	ND	MW-109	5/13/06	ND
MW-51-135	7/24/07	ND	MW-110	8/8/06	ND
MW-51-183	7/24/07	ND	MW-111	5/17/06	2.5
MW-51-189	7/24/07	ND	MW-114	11/23/06	ND
MW-52-11	8/6/07	ND	U1-CSS	8/6/07	28.8
MW-52-18	8/6/07	ND	U1-1	6/22/06	ND
MW-52-48	8/6/07	ND	U1-2	6/22/06	1.4
MW-52-64	8/6/07	ND	U1-3	6/22/06	ND
MW-52-118	8/6/07	ND	U1-4	6/22/06	ND
MW-52-182	8/6/07	ND	U1-4S	No Sample	1.3
MW-52-181	8/6/07	ND	U1-5	5/26/06	1.3
MW-53-82	8/30/06	6.7	U1-7	5/26/06	1.5
MW-53-120	6/8/07	37.4			



LEGEND

Probable Legacy Release Locations

- Terminated Connection To Storm Drain
- Footing / Storm Drain Exfiltration
- Inter-Structure Joint / Mud Mat
- Containment Spray Sump Trench
- Unit 1 West Fuel Pool
- Unit 2 Fuel Pool
- Boring / Monitoring Installation Designation
- Boring / Monitoring Installation

Depth-Specific Data

Activity of Sr90 (pCi/L) for each screened interval.

Multiple Screened Intervals w/ Depth

- Screened in Soil
- Screened in Bedrock

Average Tidal Response for each screened interval (measured between 10/1/05 and 11/30/05).

Groundwater elevation at time of low river tide for each screened interval, 8/1/2007.

Activity Data¹

Bar Graphs; Bounding Sr-90, pCi/L

- No Depth-Specific Samples
- Not Detected (ND)
- 0.74 ND - 1.0
- 1.7 1.0 - 2.0
- 2.85 2.0 - 4.0
- 6.6 4.0 - 8.0
- 96.1 8.0 - 25
- 46.6 25 - 75
- 918 > 75

Isopleths; Bounding Sr-90, pCi/L

- 2 - 4
- 4 - 8
- 8 - 25
- 25 - 75
- > 75

Note: Illustration of contaminant plume is a schematic representation only. In reality, the geologic bedrock formation is over 99% solid, crystalline rock, with the contaminated water contained only in the remaining (less than 1%) interstitial space (i.e. fractures).

Groundwater Elevation Contours

- Ambient "Waterable" Contours 6/1/2007 (10' Interval)
- Contours Other Than 10' Interval
- Vadose Zone Contaminant Transport

Note: Groundwater contours developed from limited data available on 6/1/2007. Actual elevations may vary from conditions shown and the actual distribution of piezometric heads is likely more complex than indicated.

Data Notes:

- Sr-90 "bounding isopleths" / data represent upper bound values measured over both depth and time (available results for sample dates through 8/29/2007). As such, the "plume" is an overstatement of contaminant levels actually existing on-site at any time.
- Sr-90 activity at MW-111 and MW-33 may be due to desorption of residual Sr-90 from backfill used in the Transformer Yard.
- Sr-90 only detected in MW-30 during pumping test of RW-1 on 11/29/06.
- A Sr-90 value of 0.9 was measured on 5/24/2006 in MW-31 open borehole.
- Three discrete isopleths have been drawn around MW-39, 41, and 43 given measured concentrations greater than 2 pCi/L. It is expected that similar concentrations exist at other locations along the legacy piping alignment in addition to the locations shown.
- The low Sr-90 concentrations measured in these wells are consistent with that expected due to residual levels remaining as the legacy plume has attenuated over time.

General Notes:

- Base map was developed from an unutilized electronic file provided by Badey & Watson Surveying and Engineering, P.C., Dated 2/3/06, CAD file name: "GZA.dwg".
- Additional legend on Figure 1.3.

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**INDIAN POINT ENERGY CENTER
 BUCHANAN, NEW YORK**

**BOUNDING UNIT 1
 ACTIVITY ISOPLETHS¹**

Proj. Mgr: MJB
 Designed By: MJB
 Reviewed By: MJB
 Operator: GAS

Orig. Date: 1-4-2008
 Job No.: 41.0017869.10

Figure No.: **8.2**

D-16

HUDSON RIVER