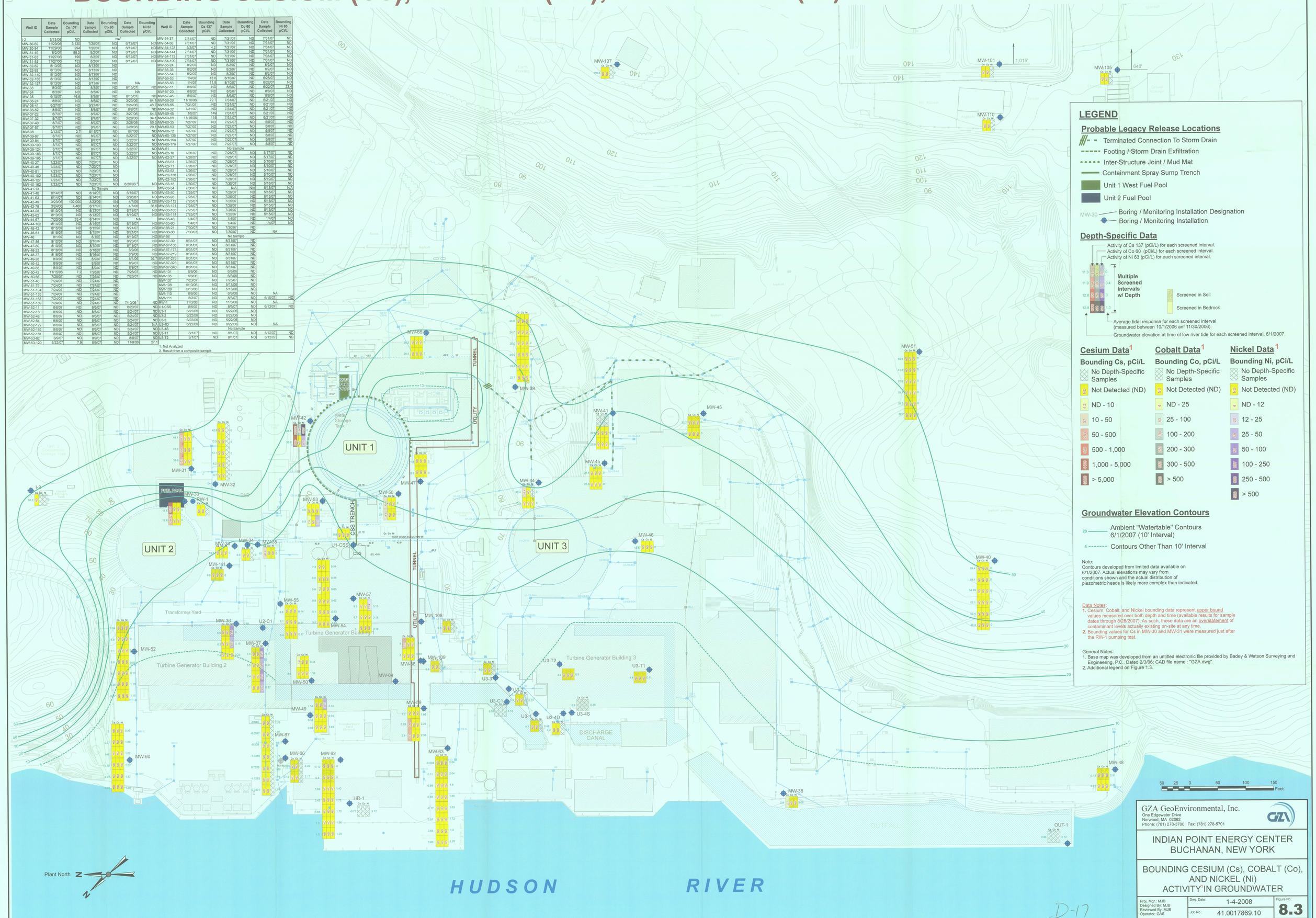
BOUNDING CESIUM (Cs), COBALT (Co), AND NICKEL (Ni) ACTIVITY[1] IN GROUNDWATER

Well ID	Date Sample Collected	Bounding Cs 137 pCi/L	Date Sample Collected	Bounding Co 60 pCi/L	Date Sample Collected	Bounding Ni 63 pCi/L
I-2	5/13/06	ND		NA[1]		
MW-30-69	11/29/06	3,130	7/25/07	ND	6/12/07	ND
MW-30-84	11/29/06	294	7/25/07	ND	6/12/07	ND
MW-31-49	8/2/07	88.3	8/2/07	ND	6/12/07	ND
MW-31-63	11/27/06	199	8/2/07	ND	6/12/07	ND
MW-31-85	11/27/06	152	8/2/07	ND	6/12/07	ND
MW-32-82	8/13/07	ND	8/13/07	ND		
MW-32-92	8/13/07	ND	8/13/07	ND		
MW-32-140	8/13/07	ND	8/13/07	ND		
MW-32-165	8/13/07	ND	8/13/07	ND		
MW-32-197	8/13/07	ND	8/13/07	ND	NA	
MW-33	8/3/07	ND	8/3/07	ND	6/15/07	ND
MW-34	8/3/07	ND	8/3/07	ND	NA	
MW-35	6/15/07	46.6	8/3/07	ND	6/15/07	ND
MW-36-24	8/8/07	ND	8/8/07	ND	3/23/06	64.1
MW-36-41	6/27/07	ND	8/27/07	ND	3/24/06	48.7
MW-36-52	8/8/07	ND	8/8/07	ND	8/8/07	ND
MW-37-22	8/7/07	ND	8/7/07	ND	3/27/06	54.3
MW-37-32	8/7/07	ND	8/7/07	ND	2/28/06	34.1
MW-37-40	8/7/07	ND	8/7/07	ND	2/28/06	56.5
MW-37-57	8/7/07	ND	8/7/07	ND	2/28/06	29.1
MW-38	2/12/07	2.7	8/16/07	ND	8/7/06	ND
MW-39-67	8/7/07	ND	8/7/07	ND	5/22/07	ND
MW-39-84	8/7/07	ND	8/7/07	ND	5/22/07	ND
MW-39-100	8/7/07	ND	8/7/07	ND	5/22/07	ND
MW-39-124	8/7/07	ND	8/7/07	ND	5/22/07	ND
MW-39-183	8/7/07	ND	8/7/07	ND	5/22/07	ND
MW-39-195	8/7/07	ND	8/7/07	ND	5/22/07	ND
MW-40-27	7/23/07	ND	7/23/07	ND		
MW-40-46	7/23/07	ND	7/23/07	ND		
MW-40-81	7/23/07	ND	7/23/07	ND		
MW-40-102	7/23/07	ND	7/23/07	ND		
MW-40-127	7/23/07	ND	7/23/07	ND		
MW-40-162	7/23/07	ND	7/23/07	ND	6/20/06	ND
MW-41-13			No Sample			
MW-41-40	8/14/07	ND	8/14/07	ND	8/19/07	ND
MW-41-63	8/14/07	ND	8/14/07	ND	6/20/07	ND
MW-42-69	3/23/06	102,000	3/23/06	194	4/7/06	5,120
MW-42-78	3/24/06	4,460	8/17/07	ND	4/7/06	36.6
MW-43-28	8/13/07	ND	8/13/07	ND	6/18/07	ND
MW-43-62	8/13/07	ND	8/13/07	ND	8/19/07	ND
MW-44-87	7/20/06	35.4	8/14/07	ND	NA	
MW-44-102	8/14/07	ND	8/14/07	ND	8/19/07	ND
MW-45-42	8/15/07	ND	8/15/07	ND	6/21/07	ND
MW-45-61	8/15/07	ND	8/15/07	ND	6/21/07	ND
MW-46	8/1/07	ND	8/1/07	ND	8/19/07	ND
MW-47-56	8/10/07	ND	8/10/07	ND	6/20/07	ND
MW-47-80	8/10/07	ND	8/10/07	ND	6/19/07	ND
MW-48-23	8/16/07	ND	8/16/07	ND	6/9/06	ND
MW-48-37	8/16/07	ND	8/16/07	ND	6/9/06	ND
MW-49-26	8/9/07	ND	8/9/07	ND	8/1/06	35.7
MW-49-42	8/9/07	ND	8/9/07	ND	8/9/07	ND
MW-49-65	8/9/07	ND	8/9/07	ND	8/9/07	ND
MW-50-42	11/15/06	7.2	7/26/07	ND	7/26/07	ND
MW-50-66	7/26/07	ND	7/26/07	ND	7/26/07	ND
MW-51-40	7/24/07	ND	7/24/07	ND		
MW-51-79	7/24/07	ND	7/24/07	ND		
MW-51-104	7/24/07	ND	7/24/07	ND		
MW-51-135	7/24/07	ND	7/24/07	ND		
MW-51-163	7/24/07	ND	7/24/07	ND		
MW-51-189	7/24/07	ND	7/24/07	ND	7/10/06[2]	ND
MW-52-11	8/6/07	ND	8/6/07	ND	5/20/07	ND
MW-52-18	8/6/07	ND	8/6/07	ND	5/24/07	ND
MW-52-48	8/6/07	ND	8/6/07	ND	5/24/07	ND
MW-52-64	8/6/07	ND	8/6/07	ND	5/24/07	ND
MW-52-122	8/6/07	ND	8/6/07	ND	5/24/07	N/A
MW-52-162	8/6/07	ND	8/6/07	ND	5/24/07	ND
MW-52-181	8/6/07	ND	8/6/07	ND	5/24/07	ND
MW-53-82	8/9/07	ND	8/9/07	ND	5/9/07	ND
MW-53-120	6/22/07	7.9	8/9/07	ND	11/9/06	27.1

1. Not Analyzed
2. Result from a composite sample

Well ID	Date Sample Collected	Bounding Cs 137 pCi/L	Date Sample Collected	Bounding Co 60 pCi/L	Date Sample Collected	Bounding Ni 63 pCi/L
MW-54-37	7/31/07	ND	7/31/07	ND	7/31/07	ND
MW-54-58	7/31/07	ND	7/31/07	ND	7/31/07	ND
MW-54-123	5/3/07	4.2	7/31/07	ND	7/31/07	ND
MW-54-144	7/31/07	ND	7/31/07	ND	7/31/07	ND
MW-54-173	7/31/07	ND	7/31/07	ND	7/31/07	ND
MW-54-190	7/31/07	ND	7/31/07	ND	7/31/07	ND
MW-55-24	8/2/07	ND	8/2/07	ND	8/2/07	ND
MW-55-35	8/2/07	ND	8/2/07	ND	8/2/07	ND
MW-55-54	8/2/07	ND	8/2/07	ND	8/2/07	ND
MW-56-53	1/4/07	13.6	8/10/07	ND	6/26/07	ND
MW-56-63	1/4/07	11.8	8/10/07	ND	6/22/07	ND
MW-57-11	8/6/07	ND	8/6/07	ND	6/22/07	22.4
MW-57-20	8/6/07	ND	8/6/07	ND	8/6/07	ND
MW-57-45	8/6/07	ND	8/6/07	ND	8/6/07	ND
MW-58-26	11/16/06	72.7	7/31/07	ND	6/21/07	ND
MW-58-65	7/31/07	ND	7/31/07	ND	6/21/07	ND
MW-59-32	7/31/07	ND	7/31/07	ND	6/21/07	ND
MW-59-45	1/5/07	149	7/31/07	ND	6/21/07	ND
MW-59-68	11/19/06	115	7/31/07	ND	6/21/07	ND
MW-60-35	7/27/07	ND	7/27/07	ND	5/8/07	ND
MW-60-53	7/27/07	ND	7/27/07	ND	5/8/07	ND
MW-60-72	7/27/07	ND	7/27/07	ND	5/8/07	ND
MW-60-135	7/27/07	ND	7/27/07	ND	5/8/07	ND
MW-60-154	7/27/07	ND	7/27/07	ND	5/8/07	ND
MW-60-176	7/27/07	ND	7/27/07	ND	5/8/07	ND
MW-61			No Sample			
MW-62-18	7/26/07	ND	7/26/07	ND	5/17/07	ND
MW-62-37	7/26/07	ND	7/26/07	ND	5/17/07	ND
MW-62-53	7/26/07	ND	7/26/07	ND	5/10/07	ND
MW-62-71	7/26/07	ND	7/26/07	ND	5/10/07	ND
MW-62-92	7/26/07	ND	7/26/07	ND	5/10/07	ND
MW-62-138	7/26/07	ND	7/26/07	ND	5/10/07	ND
MW-62-182	7/26/07	ND	7/26/07	ND	5/10/07	ND
MW-63-18	7/30/07	ND	7/30/07	ND	5/18/07	ND
MW-63-34	7/30/07	ND	N/A	N/A	5/18/07	N/A
MW-63-50	7/25/07	ND	7/25/07	ND	5/15/07	ND
MW-63-63	7/25/07	ND	7/25/07	ND	5/15/07	ND
MW-63-112	7/25/07	ND	7/25/07	ND	5/15/07	ND
MW-63-121	7/25/07	ND	7/25/07	ND	5/15/07	ND
MW-63-163	7/25/07	ND	7/25/07	ND	5/15/07	ND
MW-63-174	7/25/07	ND	7/25/07	ND	5/15/07	ND
MW-64	1/4/07	ND	1/4/07	ND	1/4/07	ND
MW-65-80	1/4/07	ND	1/4/07	ND	1/4/07	ND
MW-66-21	7/30/07	ND	7/30/07	ND		
MW-66-36	7/30/07	ND	7/30/07	ND		NA
MW-66			No Sample			
MW-67-39	8/31/07	ND	8/31/07	ND		
MW-67-105	8/31/07	ND	8/31/07	ND		
MW-67-173	8/31/07	ND	8/31/07	ND		
MW-67-219	8/31/07	ND	8/31/07	ND		
MW-67-276	8/31/07	ND	8/31/07	ND		
MW-67-323	8/31/07	ND	8/31/07	ND		
MW-67-340	8/31/07	ND	8/31/07	ND		
MW-101	8/8/06	ND	8/8/06	ND		
MW-105	8/9/06	ND	8/9/06	ND		
MW-107	7/23/07	ND	7/23/07	ND		
MW-108	5/13/06	ND	5/13/06	ND		
MW-109	5/13/06	ND	5/13/06	ND		
MW-110	8/8/06	ND	8/8/06	ND		NA
MW-111	8/3/07	ND	8/3/07	ND	6/15/07	ND
RW-1	11/3/06	ND	11/3/06	ND		NA
U1-CSS	8/6/07	ND	8/6/07	ND	6/13/07	ND
U3-1	6/22/06	ND	6/22/06	ND		
U3-2	6/22/06	ND	6/22/06	ND		
U3-3	6/22/06	ND	6/22/06	ND		
U3-4D	6/22/06	ND	6/22/06	ND		NA
U3-4S			No Sample			
U3-T1	8/1/07	ND	8/1/07	ND	6/12/07	ND
U3-T2	8/1/07	ND	8/1/07	ND	6/12/07	ND



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
- MW-30 — Boring / Monitoring Installation Designation
- Boring / Monitoring Installation

Depth-Specific Data

Cesium Data[1]

Bounding Cs, pCi/L

- No Depth-Specific Samples
- Not Detected (ND)
- ND - 10
- 10 - 50
- 50 - 500
- 500 - 1,000
- 1,000 - 5,000
- > 5,000

Cobalt Data[1]

Bounding Co, pCi/L

- No Depth-Specific Samples
- Not Detected (ND)
- ND - 25
- 25 - 100
- 100 - 200
- 200 - 300
- 300 - 500
- > 500

Nickel Data[1]

Bounding Ni, pCi/L

- No Depth-Specific Samples
- Not Detected (ND)
- ND - 12
- 12 - 25
- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- > 500

Groundwater Elevation Contours

- 20 —— Ambient "Watertable" Contours 6/1/2007 (10' Interval)
- 5 ------ Contours Other Than 10' Interval

Note:
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:
1. Cesium, Cobalt, and Nickel bounding data represent upper bound values measured over both depth and time (available results for sample dates through 8/28/2007). As such, these data are an overstatement of contaminant levels actually existing on-site at any time.
2. Bounding values for Cs in MW-30 and MW-31 were measured just after the RW-1 pumping test.

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

50 25 0 50 100 150 Feet

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062
Phone: (781) 278-3700 Fax: (781) 278-5701

INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

BOUNDING CESIUM (Cs), COBALT (Co), AND NICKEL (Ni) ACTIVITY[1] IN GROUNDWATER

Proj. Mgr.: MJB Designed By: MJB Reviewed By: MJB Operator: GAS	Dwg. Date: 1-4-2008 Job No.: 41.0017869.10	Figure No.: **8.3**

D-17

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