New York, New York, Site

U.S. DEPARTMENT OF ENERGY | Legacy Management

SITE CERTIFICATION SUMMARY

This Site Certification Summary provides information about the **New York, New York, Site**. The U.S. Department of Energy Office of Legacy Management is responsible for long-term stewardship of the site under the **Formerly Utilized Sites Remedial Action Program**.

Site Description and History

The New York, New York, Site (formerly known as the Baker and Williams Warehouses Site) is located on the west side of central New York City. During the 1940s, the Manhattan Engineer District used warehouses at 513-519, 521-527, and 529-535 West 20th Street for short-term storage of uranium concentrates produced in Port Hope, Canada, from African ores. Since the 1940s, several businesses have leased the warehouses.

New York, New York, Site (Baker and Williams Warehouses), 1990.

Site Remediation Timeline

August 1989 – Oak Ridge Institute for Science and Education (ORISE), under contract with the U.S. Department of Energy (DOE), conducted a radiological designation survey of the interior surfaces of Buildings 521-527 and 529-535.

1990 – DOE determined the New York site to be eligible for the Formerly Utilized Sites Remedial Action Program (FUSRAP).

March 1991 – ORISE conducted a characterization survey of Building 521-527 and surveys of accessible surfaces in Building 513-519.

April 1 through 26, 1991 – Bechtel National Inc. (BNI) remediated Building 521-527.

May 1 through July 23, 1993 – BNI remediated Building 513-519.

October 16, 1995 – DOE published a cleanup certification for the site in the Federal Register.

Certification Docket Contents

The Certification Docket documents the successful remediation at the Baker and Williams Warehouses site in 1991 and 1993. The docket includes documents supporting DOE certification that conditions at the subject property comply with applicable guidelines and standards. In addition, the certification docket provides documents certifying that the property meets all applicable guidelines for contaminants resulting from the activities of DOE or its predecessor agencies. Future use of the site will not result in radiological exposure above DOE criteria and/or standards established to protect member of the general public and occupants of the site.

Remedial Action

BNI remediated New York site from April 1 to April 26, 1991, and from May 1 to July 23, 1993, as part of FUSRAP. See the Fact Sheet for details.

FUSRAP objectives for the site were to:

- Identify and assess all sites that were formerly used in support of early Manhattan Engineer District/U.S. Atomic Energy Commission nuclear work to determine whether further decontamination or control is needed.
- Decontaminate or apply controls to these sites to permit compliance with current applicable guidelines.
- Dispose of or stabilize all generated residues in an environmentally acceptable manner.
- Accomplish all work in accordance with appropriate landowner agreements and local and state environmental and land use requirements to the extent permitted by federal law and applicable DOE orders, regulations, standards, policies, and procedures.
- Certify, at the completion of the remedial action, that the chemical and radiological conditions of the sites comply with guidelines and that the sites may be released for appropriate future use.

Post-Remediation Sampling

After cleanup was completed, a radiological survey of the walls, floors, and ceiling was conducted to ensure that no radioactivity in excess of DOE guidelines remained. The survey involved conducting preliminary surface scans and measuring direct-contact alpha and beta-gamma activity, removable alpha activity, and gamma-ray exposure rates. No residual contamination was detected in Building 529-535.

Building 521-527

The basement and first floor of Building 521-527 were remediated. Direct measurements for beta-gamma activity exceeded 5,000 disintegrations per minute (dpm)/100 square centimeters (cm^2) at eight locations in the basement but did not exceed the DOE maximum guideline (15,000 dpm/100 cm^2). No direct beta-gamma measurements exceeded 5,000 dpm/100 cm^2 on the first floor. Direct alpha measurements did not exceed applicable DOE guidelines for any of the locations identified.

Note: The Certification Docket indicates that the direct measurements of beta-gamma activity exceeding 5,000 dpm/100 cm^2 were located on the first floor. However, the tables and figures indicate that those direct measurements were located in the basement. This certification docket summary reconciles the discrepancy and discusses the beta-gamma activity exceeding 5,000 dpm/100 cm^2 as found in the basement.

Building 513-519

The basement, first floor, third floor, and the east bay elevator pit of Building 513-519 were remediated. Fixed and removable alpha measurements did not exceed applicable DOE guidelines at any of the post-remedial action measurement locations, and all exposure rate measurements were within applicable guidelines. Two small, isolated locations had fixed beta-gamma activity greater than the average contamination guideline of 5,000 dpm/100 cm^2, but both locations were well below the maximum contamination guideline of 15,000 dpm/100 cm^2.

For more detailed results of the post-remediation sampling, see the Site Certification Data Summary Worksheet on pages 3-13. For a detailed map of the site and sampling locations, see the Site Overview Map on page 14.

Current Site Conditions

Post-remedial action data indicate that the contaminated areas in Building 521-527 and Building 513-519 were successfully remediated during 1991 and 1993 and are now in compliance with applicable DOE guidelines for cleanup of radioactive contamination. ORISE independently reviewed the remedial activities discussed in the certification docket, verified the data supporting the remediation's adequacy, and confirmed that the site complies with applicable remedial action guidelines. DOE has been responsible for long-term stewardship of the New York site since 1996. The stewardship requirements and protocols are captured in the FUSRAP Long-Term Surveillance and Maintenance Plan, which is available on the DOE Office of Legacy Management website (www.energy.gov/lm/new-york-new-york-site).

ADDITIONAL INFORMATION

Documents related to FUSRAP activities at the New York, New York, Site are available on the LM website at lmpublicsearch.lm.doe.gov/SitePages/default.aspx?sitename=New_York.

For other information on site history or current long-term stewardship activities, please contact us at:

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New York, New York, Site Certification Data Summary Worksheet

Twenty-one tables referenced in the New York Certification Docket provide the evidence used to certify the site as clean.

When the tables refer to the "PRAR1," that is the "Post-Remedial Action Report for Building 521-527, Baker and Williams Warehouses Site, New York, New York" (dated February 1992).

When the tables refer to the "PRAR2," that is the "Post-Remedial Action Report for Building 513-519, Baker and Williams Warehouses Site, New York, New York" (dated July 1994).

Post-Remedial Action Measurements on the Floor in Storage Area 1

Table 4-1 in PRAR1

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha	Beta-Gamma	Alpha
A0	<33	<605	<2
A0 Midpoint	160	<647	<2
A1	<61	<1149	<2
A1 Midpoint	40	<605	<2
A2	<61	<605	<2
A2 Midpoint	<33	<940	<2
A3	<33	<605	<2
A3 Midpoint	40	<605	5
A4	<33	<731	<2
A4 Midpoint	<33	<605	<2
A5	<33	<689	<2
A5 Midpoint	<61	<814	<2
A6	<61	<605	<2
B0	<74	<856	<2
B0 Midpoint	<47	657	<2
B1	<47	<605	<2
B1 Midpoint	<33	<731	<2
B2	50	<605	<2
B2 Midpoint	<61	618	<2
B3	<74	<605	3
B3 Midpoint	110	<856	<2
B4	<33	<605	<2
B4 Midpoint	<47	<982	<2
B5	<47	<940	<2
B5 Midpoint	70	<605	<2
B6	60	<605	8
C0	<47	<605	<2
C0 Midpoint	<47	<940	<2
C1	<47	<689	<2
C1 Midpoint	<47	<605	3
C2	<33	<605	<2
C2 Midpoint	<33	<731	<2
C3	<33	<940	3
C3 Midpoint	<33	<605	<2
C4	<33	<689	<2
C4 Midpoint	<33	<1149	<2
C5	<33	<647	<2
C5 Midpoint	<33	1584	<2
C6	<33	<1233	<2
D0	<33	<605	<2
D0 Midpoint	<33	<898	<2
D1	<74	<605	<2
D1 Midpoint	<33	<605	<2
D2	<33	<1024	<2
D2 Midpoint	<47	<856	<2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha	Beta-Gamma	Alpha
D3	<47	<982	<2
D3 Midpoint	40	<605	<2
D4	<61	<1191	3
D4 Midpoint	60	<940	5
D5	<74	657	<2
D5 Midpoint	110	1777	<2
D6	50	<605	<2
E0	<47	<605	<2
E0 Midpoint	<74	<605	<2
E1	80	<605	<2
E1 Midpoint	80	<731	<2
E2	50	<605	<2
E2 Midpoint	<61	<731	<2
E3	<47	<605	3
E3 Midpoint	<61	<605	<2
E4	<33	<605	<2
E4 Midpoint	<47	<731	<2
E5	80	1700	<2
E5 Midpoint	40	2357	<2
E6	<74	<814	<2
F0	<47	<605	3
F0 Midpoint	<47	<856	<2
F1	50	<605	<2
F1 Midpoint	<33	<605	<2
F2	<61	<605	<2
F2 Midpoint	<33	1043	<2
F3	40	<605	<2
F3 Midpoint	80	1352	<2
F4	<33	<982	<2
F4 Midpoint	<33	<605	3
F5	80	2511	<2
F5 Midpoint	100	1584	<2
F6	<33	<605	<2
G0	<61	<605	<2
G1	<33	811	<2
G1 Midpoint	<33	<898	[a]NM
G2	<33	2279	<2
G3	60	<605	<2
G3 Midpoint	<33	<605	[a]NM
G4	<47	<605	<2
G5	40	<814	<2
G5 Midpoint	40	<605	[a]NM
G6	<33	<605	<2

[a]NM - No activity measurement.

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New York, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Measurements on the Floor in Storage Area 2

Table 4-2 in PRAR1

Grid Location	Direct Activity (dpm/100 cm2)		Removable Activity (dpm/100 cm2)
	Alpha	Beta-Gamma	Alpha
A0	<47	657	<2
A0 Midpoint	<61	<940	<2
A1	60	<940	5
A1 Midpoint	60	<605	<2
A2	<61	<605	5
A2 Midpoint	40	2279	<2
A3	80	2511	5
A3 Midpoint	60	<605	<2
A4	60	2511	<2
A4 Midpoint	<33	<605	<2
A5	<33	<773	<2
A5 Midpoint	<61	<982	<2
A6	80	1429	<2
A6 Midpoint	<33	<605	<2
A7	70	<940	<2
A7 Midpoint	<61	<605	<2
A8	40	966	<2
A8 Midpoint	<33	<605	<2
A9	<47	<605	<2
A9 Midpoint	<61	<982	<2
A10	60	<605	<2
B0	40	<605	<2
B0 Midpoint	<33	<605	<2
B1	<33	734	<2
B1 Midpoint	80	<1149	11
B2	<33	<605	<2
B2 Midpoint	80	1352	<2
B3	<33	1043	5
B3 Midpoint	50	<605	<2
B4	<33	<1233	2
B4 Midpoint	40	<1066	<2
B5	<61	<605	<2
B5 Midpoint	60	1004	<2
B6	<33	<605	<2
B6 Midpoint	<47	<605	8
B7	70	1352	<2
B7 Midpoint	<33	<647	<2
B8	<47	<1149	<2
B8 Midpoint	<47	<605	<2
B9	<33	<689	<2
B9 Midpoint	40	<605	<2
B10	80	<605	<2
C0	<61	<856	<2
C0 Midpoint	<47	<982	<2
CI	<33	<605	<2
CI Midpoint	40	<605	<2
C2	50	657	<2
C2 Midpoint	80	1429	<2
C3	40	<1066	<2
C3 Midpoint	<33	<898	<2
C4	50	889	<2
C4 Midpoint	<33	<605	<2
C5	60	<605	<2
C5 Midpoint	40	<1066	<2
C6	40	<898	<2
C6 Midpoint	<74	<605	<2
C7	40	<605	<2
C7 Midpoint	70	1352	<2
C8	<74	<605	<2
C8 Midpoint	80	<731	<2
C9	<61	<605	<2
C9 Midpoint	40	<605	<2
C10	80	<605	<2
D0	40	<605	<2
D0 Midpoint	40	<605	<2
D1	<33	<1066	<2
D1 Midpoint	40	739	2
D2	<47	889	<2
D2 Midpoint	<61	<1149	<2
D3	<61	<898	<2
D3 Midpoint	110	618	<2
D4	100	<731	<2
D4 Midpoint	<47	<793	<2
D5	50	<605	<2
D5 Midpoint	<61	<605	<2

Grid Location	Direct Activity (dpm/100 cm2)		Removable Activity (dpm/100 cm2)
	Alpha	Beta-Gamma	Alpha
D6	<33	<982	<2
D6 Midpoint	<61	<605	<2
D7	40	<605	5
D7 Midpoint	<33	889	<2
D8	100	<605	5
D8 Midpoint	<61	<605	<2
D9	<61	<605	2
D9 Midpoint	60	<856	<2
D10	80	<605	<2
E0	<33	<982	<2
E0 Midpoint	40	<898	<2
E1	<61	811	<2
E1 Midpoint	<33	<731	<2
E2	<33	1120	5
E2 Midpoint	<61	1429	<2
E3	<33	<605	<2
E3 Midpoint	<61	734	<2
E4	40	<605	<2
E4 Midpoint	<61	<605	<2
E5	40	<647	<2
E5 Midpoint	<33	<731	<2
E6	50	<898	<2
E6 Midpoint	40	<982	<2
E7	80	<605	<2
E7 Midpoint	<33	966	<2
E8	40	<605	<2
E8 Midpoint	<33	<605	<2
E9	<61	1120	<2
E9 Midpoint	60	<856	<2
E10	<33	<605	<2
F0	<33	<814	<2
F0 Midpoint	<61	1584	<2
F1	<61	<605	<2
F1 Midpoint	<61	657	<2
F2	<33	<982	<2
F2 Midpoint	60	927	<2
F3	140	1043	2
F3 Midpoint	<61	2279	<2
F4	<61	<605	<2
F4 Midpoint	40	<605	<2
F5	<61	<605	<2
F5 Midpoint	<33	<605	<2
F6	<61	<605	<2
F6 Midpoint	<33	<605	<2
F7	<47	<605	<2
F7 Midpoint	<33	1738	<2
F8	70	<605	<2
F8 Midpoint	<47	<856	<2
F9	40	<773	<2
F9 Midpoint	40	<605	<2
F10	<61	<605	<2
G0	<33	<605	<2
G0 Midpoint	<33	734	<2
G1	<61	<856	<2
G1 Midpoint	<33	<605	2
G2	<33	<940	<2
G2 Midpoint	<33	<605	<2
G3	<33	<1233	5
G3 Midpoint	40	1120	<2
G4	80	<605	<2
G4 Midpoint	<74	<605	<2
G5	70	<1066	<2
G5 Midpoint	60	<605	<2
G6	<61	<898	<2
G6 Midpoint	<61	<605	<2
G7	<33	<605	<2
G7 Midpoint	<61	<605	5
G8	60	<940	<2
G8 Midpoint	<61	<731	<2
G9	<61	<898	<2
G9 Midpoint	40	<605	<2
G10	40	<605	2
H0	80	<856	<2
H0 Midpoint	<74	<1233	<2
H1	50	<689	2
H1 Midpoint	<33	<1024	<2
H2	<47	<605	2
H2 Midpoint	50	773	<2
H3	40	<731	<2
H3 Midpoint	80	<773	<2
H4	60	<647	<2
H4 Midpoint	<33	695	<2

Grid Location	Direct Activity (dpm/100 cm2)		Removable Activity (dpm/100 cm2)
	Alpha	Beta-Gamma	Alpha
H5	<61	<605	<2
H5 Midpoint	[a]NM	[a]NM	5
H6	40	<689	5
H6 Midpoint	<33	<605	<2
H7	<47	<647	2
H7 Midpoint	40	<605	<2
H8	<61	<605	<2
H8 Midpoint	<33	<605	<2
H9	<61	<605	<2
H9 Midpoint	<33	<605	<2
H10	<33	<1066	<2
I0	80	<605	<2
I0 Midpoint	<33	<605	<2
I1	<33	<605	2
I1 Midpoint	70	<605	2
I2	<33	<605	<2
I2 Midpoint	80	<898	5
I3	<33	<605	<2
I3 Midpoint	70	<605	<2
I4	70	<605	<2
I4 Midpoint	<47	<773	<2
I5	<61	<605	<2
I5 Midpoint	<61	<773	<2
I6	<61	<605	<2
I6 Midpoint	60	<605	<2
I7	70	<773	<2
I7 Midpoint	<47	<1107	<2
I8	60	1468	<2
I8 Midpoint	<33	<605	<2
I9	120	<605	<2
I9 Midpoint	40	<605	<2
I10	70	<1149	<2
J0	40	<605	<2
J0 Midpoint	100	<605	<2
J1	<61	<605	<2
J1 Midpoint	<33	<605	<2
J2	<33	734	<2
J2 Midpoint	<33	966	5
J3	<61	<605	<2
J3 Midpoint	<61	<689	<2
J4	60	<605	2
J4 Midpoint	<33	<605	2
J5	<61	<605	<2
J5 Midpoint	100	<1066	<2
J6	40	<605	<2
J6 Midpoint	<33	<814	<2
J7	80	<898	<2
J7 Midpoint	40	734	<2
J8	<33	<605	<2
J8 Midpoint	<61	<605	<2
J9	<33	<605	<2
J9 Midpoint	<61	<605	<2
J10	<33	<773	<2
K0	60	<898	<2
K0 Midpoint	<61	<689	<2
K1	<33	<605	<2
K1 Midpoint	60	<605	<2
K2	<33	<605	<2
K2 Midpoint	<33	<605	5
K3	<47	1004	2
K3 Midpoint	70	<605	2
K4	<33	<647	<2
K4 Midpoint	<61	<605	<2
K5	<33	<605	<2
K5 Midpoint	<61	<1233	<2
K6	<33	<605	<2
K6 Midpoint	<61	<605	<2
K7	60	734	<2
K7 Midpoint	40	657	<2
K8	40	<1233	<2
K8 Midpoint	40	<689	<2
K9	<33	<1233	<2
K9 Midpoint	<33	<605	<2
K10	60	<605	<2
L0	<33	<1233	<2
L0 Midpoint	9	<982	<2
L1	<33	<898	<2
L1 Midpoint	100	<898	<2
L2	<33	<773	2
L2 Midpoint	<47	<605	<2

Grid Location	Direct Activity (dpm/100 cm2)		Removable Activity (dpm/100 cm2)
	Alpha	Beta-Gamma	Alpha
L3	<61	<1149	<2
L3 Midpoint	<61	<898	<2
L4	80	<605	<2
L4 Midpoint	<61	<605	5
L5	<33	<856	<2
L5 Midpoint	<33	657	<2
L6	40	<605	<2
L6 Midpoint	<74	<605	<2
L7	<47	<605	<2
L7 Midpoint	<33	<605	<2
L8	40	<605	<2
L8 Midpoint	40	<605	<2
L9	60	<856	2
L9 Midpoint	80	4056	<2
L10	<74	<731	<2
M0	<47	<773	<2
M0 Midpoint	<33	<940	2
M1	<33	1738	<2
M1 Midpoint	<33	<605	<2
M2	50	<605	<2
M2 Midpoint	<33	<605	<2
M3	<33	<605	<2
M3 Midpoint	<33	<605	<2
M4	80	1043	<2
M4 Midpoint	40	1043	<2
M5	80	<605	<2
M5 Midpoint	<33	<605	<2
M6	<33	<773	2
M6 Midpoint	<74	<982	<2
M7	110	<605	<2
M7 Midpoint	<33	<647	<2
M8	<47	<605	5
M8 Midpoint	<33	<605	5
M9	80	<689	<2
M9 Midpoint	<74	<605	2
M10	<61	<689	5
N0	<33	<689	<2
N0 Midpoint	80	<605	<2
N1	50	<605	<2
N1 Midpoint	<74	<773	<2
N2	50	2666	<2
N2 Midpoint	160	<689	<2
N3	<33	<605	<2
N3 Midpoint	<61	3863	<2
N4	<33	<605	2
N4 Midpoint	<33	<605	<2
N5	<61	<605	<2
N5 Midpoint	<61	<605	5
N6	1183	<773	<2
N6 Midpoint	<47	<605	<2
N7	<33	2743	2
N7 Midpoint	<33	<605	<2
N8	<33	<605	<2
N8 Midpoint	<33	<605	<2
N9	80	<605	<2
N9 Midpoint	<33	<1233	<2
N10	<61	<605	<2
O0	40	1468	2
O0 Midpoint	<61	<605	<2
O1	<47	<647	<2
O1 Midpoint	<33	<605	<2
O2	<74	3670	<2
O2 Midpoint	100	<605	<2
O3	140	<605	<2
O3 Midpoint	60	<1191	<2
O4	40	<605	<2
O4 Midpoint	80	1120	<2
O5	<33	<605	<2
O5 Midpoint	140	<605	2
O6	<33	<1149	<2
O6 Midpoint	80	<1066	<2
O7	<61	<605	<2
O7 Midpoint	60	966	<2
O8	<61	<605	<2
O8 Midpoint	<33	<605	<2
O9	40	<1233	<2
O9 Midpoint	<47	<605	<2
O10	<61	<605	<2

[a]NM - No activity measurement.

–continued to page 5–

–continued from page 4–

New York, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Measurements on the Floor in Vault Area 1

Table 4-3 in PRAR1

Grid Location	Direct Activity (dpm/100 cm2)		Removable Activity (dpm/100 cm2)
	Alpha	Beta-Gamma	Alpha
A0	<54	637	<2
A0 Midpoint	<40	849	<2
A1	211	1019	3
A1 Midpoint	<54	594	<2
A2	70	1104	3
A2 Midpoint	<40	<618	3
A3	<80	934	<2
A3 Midpoint	90	<1087	<2
A4	70	849	<2
A4 Midpoint	50	<806	<2
A5	<80	1443	3
A5 Midpoint	<54	<993	3
A6	<80	679	<2
A6 Midpoint	<40	637	<2
A7	<54	1019	<2
A7 Midpoint	<54	1019	<2
B0	50	1868	<2
B0 Midpoint	<54	1061	<2
B1	<80	594	<2
B1 Midpoint	110	<759	<2
B2	<80	1061	3
B2 Midpoint	<92	<993	<2
B3	50	1188	<2
B3 Midpoint	<80	764	3
B4	<40	594	3
B4 Midpoint	<92	637	3
B5	<40	976	<2
B5 Midpoint	<40	806	<2
B6	<40	1443	<2
B6 Midpoint	<54	1104	<2
B7	<40	<993	<2
B7 Midpoint	<40	<947	<2
C0	<40	<524	<2
C0 Midpoint	<80	594	<2
C1	130	722	<2
C1 Midpoint	110	<853	3
C2	<80	3311	<2
C2 Midpoint	<54	1019	<2
C3	50	637	3
C3 Midpoint	100	1358	3
C4	<80	1443	<2
C4 Midpoint	150	4032	3
C5	<40	1061	<2
C5 Midpoint	50	594	3
C6	<40	806	<2
C6 Midpoint	<80	637	3
C7	<40	<759	<2
C7 Midpoint	110	934	<2

Grid Location	Direct Activity (dpm/100 cm2)		Removable Activity (dpm/100 cm2)
	Alpha	Beta-Gamma	Alpha
D0	110	<806	<2
D0 Midpoint	110	934	3
D1	70	849	<2
D1 Midpoint	60	<853	<2
D2	<80	934	<2
D2 Midpoint	120	679	<2
D3	60	806	<2
D3 Midpoint	<80	2165	<2
D4	80	3141	3
D4 Midpoint	90	1061	<2
D5	130	1698	<2
D5 Midpoint	<80	<993	<2
D6	70	<759	5
D6 Midpoint	<40	<900	<2
D7	100	552	<2
D7 Midpoint	50	<853	<2
E0	70	<806	3
E0 Midpoint	50	1104	3
E1	<80	1104	3
E1 Midpoint	<80	594	<2
E2	<54	<712	<2
E2 Midpoint	50	1019	<2
E3	<54	<524	<2
E3 Midpoint	110	1146	3
E4	50	<712	3
E4 Midpoint	<80	<806	<2
E5	<80	<524	<2
E5 Midpoint	50	<993	3
E6	110	<712	<2
E6 Midpoint	70	1188	<2
E7	<54	849	3
E7 Midpoint	<54	<1040	<2
F0	<80	<524	<2
F1	<40	<853	<2
F2	100	1358	<2
F3	<92	<1087	<2
F4	<40	<712	3
F5	<40	1019	<2
F6	<40	679	3
F7	<67	<1087	<2
G0	50	<759	<2
G1	150	<1087	<2
G2	<80	<759	3
G3	<54	552	3
G4	<54	1019	<2
G5	<92	<947	<2
G6	<40	1316	<2
G7	<67	806	3

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Post-Remedial Action Measurements on the Floor in Vault Area 2

Table 4-4 in PRAR1

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha	Beta-Gamma	Alpha
A0	<53	934	<2
A0 Midpoint	<40	1613	5
A1	<53	1104	<2
A1 Midpoint	90	<571	<2
A2	50	<993	<2
A2 Midpoint	<79	<665	<2
A3	50	764	<2
A3 Midpoint	70	1613	<2
A4	90	637	<2
A4 Midpoint	<40	<1087	<2
A5	<40	637	<2
A5 Midpoint	<92	<665	<2
A6	<92	<712	<2
A6 Midpoint	<40	637	<2
A7	<40	<759	<2
A7 Midpoint	<66	<900	<2
A8	<40	<900	<2
A8 Midpoint	<40	<853	<2
A9	<40	764	2
A9 Midpoint	<40	<712	2
A10	<40	<665	<2
A10 Midpoint	<40	<759	<2
A11	<40	<806	<2
A11 Midpoint	<40	<571	<2
A12	<40	<571	<2
A12 Midpoint	<53	1019	<2
B0	<92	<900	<2
B0 Midpoint	<79	1783	<2
B1	<92	2547	<2
B1 Midpoint	<66	<900	<2
B2	<66	<571	<2
B2 Midpoint	<92	<524	5
B3	<79	<665	<2
B3 Midpoint	<40	<947	<2
B4	50	637	8
B4 Midpoint	<66	<571	<2
B5	<53	1698	<2
B5 Midpoint	<40	637	<2
B6	<40	<665	<2
B6 Midpoint	<66	<665	<2
B7	<40	<524	2
B7 Midpoint	<66	976	<2
B8	<40	<618	<2
B8 Midpoint	<92	637	<2
B9	<40	<712	<2
B9 Midpoint	<40	637	5
B10	70	<712	<2
B10 Midpoint	<92	806	<2
B11	<40	934	<2
B11 Midpoint	<66	<571	2
B12	<53	<665	<2
B12 Midpoint	<53	<712	<2
C0	<40	806	<2
C0 Midpoint	120	806	<2
C1	<66	<1087	<2
C1 Midpoint	60	891	<2
C2	<92	<665	<2
C2 Midpoint	<92	<665	<2
C3	130	<853	<2
C3 Midpoint	<66	<993	<2
C4	<92	<665	<2
C4 Midpoint	<92	552	<2
C5	<40	2504	<2
C5 Midpoint	<40	637	<2
C6	<79	1019	<2
C6 Midpoint	<92	<524	<2
C7	<40	1528	<2
C7 Midpoint	<66	637	<2
C8	<66	806	<2
C8 Midpoint	<79	594	<2
C9	<40	891	<2
C9 Midpoint	60	<665	<2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha	Beta-Gamma	Alpha
C10	<92	552	<2
C10 Midpoint	<92	<524	<2
C11	<40	<665	<2
C11 Midpoint	<40	<947	<2
C12	<40	<993	<2
C12 Midpoint	<66	<853	<2
D0	60	1104	<2
D0 Midpoint	<40	1952	<2
D1	60	891	<2
D1 Midpoint	149	2037	<2
D2	60	1316	<2
D2 Midpoint	60	806	<2
D3	<92	<993	<2
D3 Midpoint	<40	891	<2
D4	60	<947	<2
D4 Midpoint	70	637	<2
D5	<40	637	<2
D5 Midpoint	<66	637	<2
D6	<92	<759	<2
D6 Midpoint	<40	<1040	2
D7	<66	<524	8
D7 Midpoint	<40	764	<2
D8	<66	594	2
D8 Midpoint	<92	679	<2
D9	<40	637	<2
D9 Midpoint	50	<900	<2
D10	<40	<571	<2
D10 Midpoint	<92	637	<2
D11	<66	<524	<2
D11 Midpoint	<40	<1087	<2
D12	<92	<759	5
D12 Midpoint	<66	<993	<2
E0	<40	552	<2
E0 Midpoint	90	1868	<2
E1	50	1061	<2
E1 Midpoint	130	3311	<2
E2	70	1188	<2
E2 Midpoint	<79	1061	<2
E3	140	1401	<2
E3 Midpoint	<40	849	2
E4	<66	<947	<2
E4 Midpoint	60	<524	5
E5	<40	722	<2
E5 Midpoint	<79	637	2
E6	<40	806	<2
E6 Midpoint	<40	594	<2
E7	<92	764	<2
E7 Midpoint	<66	<524	<2
E8	<40	637	<2
E8 Midpoint	<92	1358	<2
E9	<66	722	<2
E9 Midpoint	<40	1061	<2
E10	<53	552	<2
E10 Midpoint	<40	891	<2
E11	<92	806	<2
E11 Midpoint	50	849	<2
E12	<92	764	<2
E12 Midpoint	<40	764	<2
F0	<79	<712	<2
F1	70	1910	<2
F2	70	1868	<2
F3	110	3056	<2
F4	<40	1443	<2
F5	<40	<759	<2
F6	<79	637	<2
F7	<66	891	<2
F8	<66	<900	<2
F9	50	<1040	2
F10	<92	<1040	<2
F11	<79	<806	2
F12	<66	<665	<2

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New York, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Measurements on the Floor in the East Bay of the Basement

Table 4-5 in PRAR1

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha	Beta-Gamma	Alpha
B			
K-21	473	1401	<1
K-22	167	1698	<1
L-21	547	1698	<1
L-22	130	849	<1
K-21 Midpoint	167	5051	<1
K-21 Hot Spot	167	7173	3
M-21	250	2504	<1
M-22	<50	<626	3
L-21 Midpoint	<37	<997	3
N-21	<62	2886	5
N-22	56	3778	<1
N-21 Midpoint	83	1401	3
O-21	<74	2632	<1
O-22	46	5263	<1
K-22.3	56	<904	<1
L-22.3	46	2037	<1
M-22.3	65	1273	3
N-22.3	<50	1273	<1
M-21 Midpoint	65	1231	3
C			
N-20	46	<626	3
N-21	56	<1227	3
O-20	<74	<673	<1
O-21	<62	<997	<1
N-20 Midpoint	<74	<997	3
D			
E-11	<62	679	<1
E-12	<37	<1181	<1
F-12	65	<626	3
F-11	<37	<1181	<1
E-11 Midpoint	158	<719	<1
E			
F-5	<60	1104	<1
F-6	1216	5603	11
F-5 Top	239	934	3
F-5 Middle	179	2759	<1
F-5 Bottom	179	<1010	<1
F-6	1216	5603	11
F-7	60	<917	<1
G-7	60	1273	<1
F-6 Midpoint	40	<542	3
F-6 A	60	1273	3
F			
A-10	<73	1698	<2
A-11	<60	1783	<2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha	Beta-Gamma	Alpha
B-11	140	2886	<2
B-10	80	<917	<2
A-10 Midpoint	40	1443	<2
G			
A-11	<60	1783	<2
A-12	<47	1443	<2
B-12	40	<1104	<2
B-11	80	<917	3
A-11 Midpoint	140	2377	<2
H			
A-12	<47	1443	<2
A-13	90	5433	<2
B-13	<60	2207	<2
B-12	40	<1104	<2
A-12 Midpoint	100	934	<2
I			
A-13	90	5433	<2
A-14	130	4075	<2
B-14	100	849	<2
B-13	<60	2207	<2
A-13 Midpoint	80	2547	<2
J			
A-15	219	4211	3
A-16	159	811	<2
B-16	159	657	<2
B-15	199	1893	3
A-15 Midpoint	100	2511	<2
K			
A-16	159	811	<2
A-17	<60	2125	5
B-17	80	<619	<2
B-16	159	657	<2
A-16 Midpoint	179	2202	3
A-17	50	1932	<2
A-18	239	2279	5
B-18	<60	<1124	3
B-17	80	<619	<2
A-17 Midpoint	159	1893	5
L			
A-21	120	<1150	3
A-22	60	<1150	3
B-22	299	1200	<2
B-21	359	1500	<2
A-21 Midpoint	379	1200	<2

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New York, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Measurements on the North Wall (A) in the East Bay of the Basement

Table 4-6 in PRAR1

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha	Beta-Gamma	Alpha
A-1	40	2122	<2
B-1	60	2632	<2
C-1	199	1273	<2
D-1	100	3268	<2
WA-1	<60	3141	<2
A-2	100	3268	<2
B-2	199	1273	<2
C-2	120	5518	<2
D-2	179	3226	3
WB-2	<60	2759	<2
A-3	179	3226	3
B-3	120	5518	<2
C-3	140	2377	<2
D-3	80	4244	<2
WC-3	40	2801	<2
A-4	80	4244	<2
B-4	140	2377	3
C-4	70	2632	<2
D-4	60	2886	<2
WD-4	60	3056	<2
A-5	60	2886	3
B-5	70	2632	<2
C-5	60	3438	<2
D-5	50	2674	<2
WE-5	80	2759	<2
A-6	50	2674	<2
B-6	60	3438	<2
C-6	70	2589	<2
D-6	80	3056	3
WF-6	70	2886	3
A-7	80	3056	3
B-7	70	2589	<2
C-7	80	2504	<2
D-7	90	2589	3
WG-7	40	3014	3
A-8	90	2589	3
B-8	80	2504	<2
C-8	40	2207	<2
D-8	70	2971	<2
WH-8	60	3056	<2

Post-Remedial Action Measurements for the Basement West Bay

Table 4-2 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha[a]	Beta-Gamma[b]	Alpha
J-2 Center (QC)[c]	<57	1,075	
I-7	<44	<658	
I-8	<31	<329	
J-8	75	<465	<2
J-7	<57	<658	
I-7 Center	56	666	
K-8	245	1,451	<2
K-7	66	1,144	
J-7 Center	75	802	
L-8	104	495	
L-7	141	1,007	
K-7 Center	94	1,860	
M-8	188	5,854	3
M-7	66	1,656	
L-7 Center	38	<329	
K-9	113	529	
L-9	66	1,109	
K-8 Center	<31	<329	
M-9	264	2,338	
L-8 Center	38	905	
L-8 Center (QC)	188	1,075	
F-0	38	393	
F-1	<44	529	
G-1	66	1,246	3
G-0	<57	<504	
F-0 Center	<57	1,280	
H-0	38	973	
H-1	<31	<465	<2
I-1	75	<658	<2
I-0	56	<542	
H-0 Center	<57	<465	
J-1	47	563	
J-0	<44	1,041	
I-0 Center	66	<619	
I-2	<44	393	
I-3	47	632	<2
J-3	38	563	
J-2	122	5,069	3
I-2 Center	47	700	
K-3	<31	<426	
K-2	66	427	
J-2 Center	<69	802	
I-4	<57	1,075	
J-4	<44	<658	
I-3 Center	<31	<329	
K-4	75	<465	3
J-3 Center	<57	<658	
H-2	56	666	
H-1 Center	245	1,451	
J-9	66	1,144	
J-8 Center	94	1,280	
I-6	<57	<329	
J-6	66	<426	<2
I-6 Center	<69	<658	
G-0 Center	<31	461	

[a]Average natural background = 13 dpm/100 cm²; measurements include natural background.
[b]Average natural background = 554 dpm/100 cm²; measurements include natural background.
[c]QC = quality control

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New York, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Gamma Exposure Rates for the Basement West Bay	
Table 4-3 in PRAR2	
Grid Location	**Exposure Rate[a] (µR/h)**
H-0 Center	11.3
J-3	10.3
K-8	10.5
[a]Average background = 13.7 µR/h; measurements include natural background.	

Post-Remedial Action Gamma Exposure Rates for the Basement East Bay	
Table 4-5 in PRAR2	
Grid Location	**Exposure Rate[a] (µR/h)**
J-3	10.8
K-16	10.7
M-15	11.1
[a]Average background = 13.7 (µR/h); measurements include natural background.	

Post-Remedial Action Gamma Exposure Rates for the First Floor East Bay	
Table 4-7 in PRAR2	
Grid Location	**Exposure Rate[a] (µR/h)**
I-1	9.6
M-3 Center	12.2
B-10	12.5
N-10	12.5
M-15	12.8
B-22	13.0
E-24	12.6
[a]Average background = 13.7 (µR/h); measurements include natural background.	

Post-Remedial Action Gamma Exposure Rates for the Third Floor East Bay	
Table 4-10 in PRAR2	
Grid Location	**Exposure Rate[a] (µR/h)**
H-1	12.8
M-2	13.7
D-8	13.8
G-12	13.4
B-15	14.1
L-17	13.8
E-22	13.7
B-26	13.4
M-26	13.8
[a]Average background = 13.7 (µR/h); measurements include natural background.	

Post Remedial Action Gamma Exposure Rates for the East Bay Elevator Pit	
Table 4-14 in PRAR2	
Grid Location	**Exposure Rate[a] (µR/h)**
B-1	10.3
[a]Average background = 13.7 µR/h; measurements include natural background.	

Post-Remedial Action Measurements for the Basement East Bay

Table 4-4 in PRAR2

Grid Location	Direct Activity (dpm/100 cm^2)		Removable Activity (dpm/100 cm^2)
	Alpha[a]	Beta-Gamma[b]	Alpha
H-14	<31	703	
H-15	56	<647	3
I-15	<44	942	
I-14	56	396	
H-14 Center	47	<313	
J-15	151	1,454	
J-14	292	1,557	<2
K-15	56	647	
K-14	282	3,536	6
J-14 Center	207	1,625	
K-14 Center	<31	<336	
L-14	122	1,761	
L-15	38	609	<2
M-14	160	908	3
M-15	38	<376	<2
L-14 Center	<69	<313	
M-14 Center	<31	567	
N-14	330	1,420	<2
N-15	38	396	
O-15	151	1,113	
O-15 (QC)c	179	1,625	
O-14	<69	1,126	
N-14 Center	169	888	
I-16	179	819	
J-16	<57	<433	
I-15 Center	132	853	
K-16	<31	375	
J-15 Center	273	<394	<2
K-15 Center	<31	341	
L-16	<69	<550	
L-15 Center	<57	<316	
M-16	<44	<316	
M-15 Center	<31	<316	
N-16	<69	<316	
N-15 Center	<69	1,434	
O-16	169	2,765	<2
I-17	<57	410	<2
I-16 Center	75	<627	
J-17	151	1,707	
J-16 Center	188	3,106	
K-17	94	751	3
K-16 Center	56	410	
L-17	38	<666	
L-16 Center	56	355	
M-17	207	1,707	<2
M-16 Center	<31	751	
N-17	47	<511	<2
N-16 Center	94	1,673	
O-17	207	2,219	
O-17 (QC)	169	3,004	
I-2	56	<588	
I-3	75	1,434	
I-2 Center	<31	956	
J-3	104	1,195	<2
J-2	169	1,707	<2
J-2 Center	<44	512	
K-3	56	1,741	
K-2	75	341	
I-4	85	922	
I-3 Center	38	922	
J-4	56	<355	
J-3 Center	47	546	
K-4	<57	922	
I-5	75	1,400	3
J-5	38	614	<2
K-5	47	649	
I-4 Center	56	341	
J-4 Center	38	888	
J-4 Center (QC)	<57	1,092	
M-18	38	<700	<2
N-18	75	956	
M-17 Center	<44	<587	

[a]Average natural background = 13 dpm/100 cm^2; measurements include natural background.
[b]Average natural background = 554 dpm/100 cm^2; measurements include natural background.
[c]QC = quality control

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New York, New York, Site Certification Data Summary Worksheet

Post-Remedial Action Measurements for the First Floor East Bay

Table 4-6 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha[a]	Beta-Gamma[b]	Alpha
M-2	38	2,970	
M-3	75	1,877	
N-3	320	3,755	< 2
N-2	<69	717	
M-2 Center	94	4,984	
M-4	56	<588	
N-4	151	2,321	
M-3 Center	66	1,741	
M-9	141	3,277	< 2
M-10	<44	<316	
N-9	<31	2,765	
N-10	<31	1,434	
N-10 (QC)c	<57	1,673	
M-9 Center	75	731	
M-11	75	867	3
N-11	66	<491	
M-10 Center	85	2,164	
N-10 Center	66	355	
O-10	38	321	
O-11	85	389	5
N-12	66	355	
O-12	<69	355	
N-11 Center	<31	321	
L-14	<57	833	
M-14	85	799	
L-15	113	662	< 2
M-15	85	492	
L-14 Center	75	<452	
N-15	56	1,994	3
M-14 Center	56	560	
M-14 Center (QC)	66	<452	
N-14	56	321	
M-16	38	1,106	
N-16	38	1,994	
M-15 Center	<69	3,837	
N-15 Center	104	662	
O-16	235	2,369	5
O-15	85	<491	
N-16 Center	<31	<319	
N-17	<44	526	
O-17	56	560	
A-19	<31	765	
B-19	<44	1,038	
B-20	85	389	2
A-20	<57	628	
A-19 Center	38	799	
A-21	113	1,584	<2
B-21	56	389	
C-21	<69	1,106	
C-20	47	1,174	
B-20 Center	122	867	5
B-20 Center (QC)	113	1,311	
A-23	527	1,413	5
B-23	<57	628	
A-24	38	696	
B-24	85	492	8
A-23 Center	<31	628	
C-24	38	<529	
C-23	66	4,758	
B-23 Center	<44	355	
A-25	104	1,004	2
B-25	<69	1,243	
A-24 Center	<44	662	
A-26	75	<374	
B-26	<31	594	
A-25 Center	188	<645	
C-26	38	696	
C-25	94	389	<2
B-25 Center	66	1,106	
D-24	<57	560	
D-25	<31	457	
C-24 Center	75	<319	
C-24 Center (QC)	<57	1,072	
E-25	38	355	
E-24	<31	<645	
D-24 Center	75	1,038	<2
D-23	56	389	<2
E-23	<31	457	<2
D-23 Center	38	<491	
F-24	47	<319	<2
F-23	38	1,550	
E-23 Center	<31	321	
E-22	<69	594	
F-22	122	1,994	2
E-22 Center	47	355	
D-26	75	1,004	
D-27	85	457	
E-27	69	<568	
E-26	113	1,686	8
D-26 Center	320	3,086	5
E-26 Center	44	389	
F-27	47	560	
F-26	94	969	
F-26 (QC)	113	1,004	
F-26 Center	56	833	2
G-27	47	<319	

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha[a]	Beta-Gamma[b]	Alpha
G-26	38	1,447	
G-26 Center	<31	<607	
H-26	66	<452	< 2
H-27	38	<374	
G-24	104	<319	< 2
G-23	<31	355	
H-23	66	355	
H-24	75	321	
G-23 Center	<31	<319	
G-23 Center (QC)	<69	492	
N-9 Center	66	478	<2
B-19 Center	47	1,024	
B-24 Center	85	<888	
L-16	75	785	<2
O-11 Center	<38	<549	
A-9	<31	<676	
B-9	<31	<451	
C-9	<31	819	
A-10	<57	649	
B-10	47	1,400	11
C-10	<57	1,673	
B-9 Center	38	990	
A-9 Center	<31	<563	
A-11	47	1,161	3
B-11	<57	922	
C-11	38	512	
A-10 Center	<31	<601	
B-10 Center	169	2,560	<2
J-13	<31	546	
K-13	104	2,424	
J-13 Center	113	2,560	3
K-14	<31	614	
J-14	<31	1,126	
K-15	38	<788	3
K-14 Center	66	922	
K-14 Center (QC)	<57	888	
L-10	<75	<888	
L-11	<75	1,434	
L-10 Center	<38	<662	
E-24 Center	<51	1,365	
F-25	<38	1,058	
F-22 Center	<75	1,092	
F-23 Center	85	<700	
G-22	<51	512	
O-9	<75	1,126	
O-10 Center	<75	990	
J-15	<75	<700	
J-14 Center	<87	<813	
L-17	<75	819	
M-17	56	580	
L-16 Center	<87	614	
A-20 Center	339	2,253	<2
A-21 Center	198	1,161	
B-21 Center	56	1,741	
B-22 Center	<38	478	
B-22 Center (QC)	<38	922	
A-18	122	2,014	3
B-18	38	1,570	
A-18 Center	<31	<474	
C-19	94	<700	
A-22	94	478	
B-22	85	1,024	
A-22 Center	94	<888	
C-22	38	785	
D-22	56	1,092	
D-22 Center	38	2,185	
C-25 Center	66	990	
D-25 Center	47	819	
F-25 Center	<69	1,468	
G-25	56	580	5
L-15 Center	66	<549	
M-13	113	<662	<2
M-13 Center	94	3,209	
M-13 Center (QC)	66	614	
N-13	85	<813	
N-14 Center	38	<700	
O-14	75	956	
H-0	<44	<587	
H-1	38	512	<2
I-1	<57	1,912	
I-0	38	2,697	
H-0 Center	<44	<662	
I-0 Center	<57	1,809	
J-0	56	512	<2
J-1	<57	1,570	
J-0 Center	<31	<813	
J-0 Center (QC)	<57	1,229	
K-1	<57	1,604	
H-1 Center	<31	1,673	
H-2	<31	<436	
I-2	<57	<662	
I-1 Center	94	1,024	3
J-2	113	1,195	
J-1 Center	122	<512	
K-2	132	3,106	<2
K-0	38	1,809	

[a]Average natural background = 13 dpm/100 cm²; measurements include natural background.
[b]Average natural background = 554 dpm/100 cm²; measurements include natural background.
[c]QC = quality control

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Post-Remedial Action Measurements for the Third Floor West Bay

Table 4-8 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha[a]	Beta-Gamma[b]	Alpha
N-23	60	754	
O-23	110	1,299	5
N-23 Center	140	1,760	10
N-24	100	<1,151	
O-24	259	922	<2
N-24 Center	120	796	<2
N-25	60	964	
O-25	<53	<691	
O.5-23	140	670	5
O.5-24	60	<876	
O.5-25	160	1,257	8
O-23 Center	40	<784	
O-24 Center	140	1,760	

[a]Average natural background = 13 dpm/100 cm²; measurements include natural background.
[b]Average natural background = 554 dpm/100 cm²; measurements include natural background.

Post-Remedial Action Measurements for the Third Floor East Bay Ceiling

Table 4-12 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha[a]	Beta-Gamma[b]	Alpha
B-8	<38	<922	<2
C-20	<53	<599	<2
D-6	<23	<1,005	<2
D-12	<23	<1,151	<2
D-25	50	<830	<7
F-15	60	712	<2
G-9	50	670	<2
G-21	<23	754	<7
G-24	<23	<1,014	<2
H-3	<38	1,173	<2
I-13	<53	1,508	<7
J-17	<38	754	<2
J-24	<38	1,173	<5
K-2	<23	<968	<7
K-10	<38	<968	<2
L-20	<23	<691	<2
M-6	<23	<645	<7
N-1	<23	745	<2
N-13	<23	<1,059	<7
N-26	50	<738	<2
N-26 (QC)c	40	<1,059	<2

[a]Average natural background = 13 dpm/100 cm²; measurements include natural background.
[b]Average natural background = 544 dpm/100 cm²; measurements include natural background.
[c]QC = quality control

Post-Remedial Action Measurements for the East Bay Elevator Pit

Table 4-13 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)	
	Alpha[a]	Beta-Gamma[b]
A-0	<57	<675
A-1	38	751
A-2	<31	<443
A-2.3	<31	<598
A-0 Center	<31	<326
B-0	<31	819
B-1	<31	580
B-2	<31	<404
B-2.3	<44	990
B-0 Center	<44	1,024
C-0	<31	2,014
C-1	<69	1,024
C-2	47	2,014
C-2.3	<44	<636
C-0 Center	<57	1,092
C.3-0	<31	785
C.3-1	<44	1,195
C.3-2	38	512
C.3-2.3	66	683
C.3-2.3 (QC)c	<44	375

[a]Average natural background = 13 dpm/100 cm²; measurements include natural background.
[b]Average natural background =544 dpm/100 cm²; measurements include natural background.
cQC = quality control

Post-Remedial Action Measurements for the Underside of the East Bay Elevator

Table 4-15 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)	
	Alpha[a]	Beta-Gamma[b]
A-0	<44	1,072
A-1	<69	901
A-1.4	<57	1,038
B-0	<44	1,652
B-1	<31	867
B-1.4	<44	1,106
C-0	<31	355
C-1	<31	<645
C-1.4	<31	<607
C-1.4 (quality control)	<44	526

[a]Average natural background = 13 dpm/100 cm²; measurements include natural background.
[b]Average natural background = 544 dpm/100 cm²; measurements include natural background.

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Post-Remedial Action Measurements for the Third Floor East Bay Floor

Table 4-9 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha[a]	Beta-Gamma[b]	Alpha
A-5	<38	444	
B-5	<63	<850	3
A-5 Center	<38	<436	
A-6	<51	580	
B-6	<38	751	
A-6 Center	<38	1,297	
A-7	<38	956	
B-7	66	922	<2
A-7 Center	<51	888	
A-8	<38	785	
B-8	<51	1,058	
A-8 Center	47	<625	
A-9	<75	614	
B-9	47	<549	5
A-9 Center	<87	<625	
A-10	<38	478	
B-10	<38	888	
A-10 Center	<38	<436	
A-11	<51	1,365	5
B-11	<38	<436	
B-11 (QC)c	<51	<662	
A-11 Center	47	<850	3
A-12	<51	1,331	5
B-12	<38	717	
A-12 Center	<51	<888	
A-13	<38	444	
B-13	<38	<662	
A-13 Center	<38	546	
A-14	<38	478	
B-14	<75	1,058	3
A-14 Center	<51	649	
A-15	<38	<436	
B-15	47	<888	5
A-15 Center	<38	<813	
A-16	<38	1,297	
B-16	<38	<549	
A-16 Center	<38	785	
A-17	<75	546	<2
B-17	<38	<549	
A-17 Center	<51	<662	
A-18	<75	580	5
A-18 (QC)	47	1,161	
B-18	<38	546	
A-18 Center	<63	1,058	
A-19	<51	1,024	
B-19	<38	580	
A-19 Center	75	<850	<2
A-20	<38	614	
B-20	<75	512	3
A-20 Center	<38	546	
A-21	<38	614	
B-21	>51	<738	
A-21 Center	<63	614	
A-22	<38	717	
B-22	<75	512	<2
A-22 Center	<63	<625	
A-23	<51	<512	
B-23	<51	512	
A-23 Center	<38	<587	
A-24	<51	683	
B-24	<63	785	3
A-24 Center	<38	478	
A-24 Center (QC)	<38	922	
A-25	<38	990	
B-25	<38	546	<2
A-25 Center	<38	580	
A-26	<51	<700	
B-26	<51	<436	
A-26 Center	<63	751	5
A-27	<51	<662	
C-5	<38	<654	
B-5 Center	60	<1,022	<3
C-6	30	1,215	<3
B-6 Center	<23	1,173	
C-7	<23	<1,067	
B-7 Center	<23	1,341	
C-8	<38	628	<6
B-8 Center	<23	880	
C-9	<23	2,178	<3
B-9 Center	<23	880	
C-10	<23	796	
B-10 Center	30	<654	
C-11	30	<700	<3
B-11 Center	<23	<608	
C-12	<38	<1,067	<3
B-12 Center	<23	<746	
C-13	<23	<1,067	
B-13 Center	<23	<792	
C-14	<38	1,215	
B-14 Center	70	<884	<6
C-15	<38	1,424	
B-15 Center	<23	587	
C-16	<23	<562	
B-16 Center	<38	838	<3
C-17	<23	<746	
B-17 Center	<23	880	
C-18	<23	<1,067	
C-22	<23	<628	
B-22 Center	<23	<562	
C-23	<23	<608	
B-23 Center	<38	587	
C-24	<23	880	
D-3	<38	1,215	<3
C-3 Center	<38	<562	
D-4	<23	964	
C-4 Center	<23	670	<3
D-5	<23	<792	
C-5 Center	50	587	<3
D-6	<38	1,215	
C-6 Center	<23	796	
D-7	<38	<884	
D-7 (QC)	<38	<884	
C-7 Center	<38	<700	
D-8	<23	<1,067	
C-8 Center	<23	<1,508	
D-9	<23	<1,159	
C-9 Center	<23	628	
D-10	<23	587	
C-10 Center	<23	880	
D-11	<23	1,005	
D-12	50	1,634	<3
C-12 Center	<53	<792	
D-13	30	796	<6
C-13 Center	<23	628	
D-14	<23	<1,113	
C-14 Center	<38	796	
D-15	<38	<1,022	
C-15 Center	<38	1,173	
D-16	<23	<562	
C-16 Center	<23	<930	
C-17	<23	712	<6
C-17 (QC)	<23	628	
D-17	40	<1,151	<3
D-18	<38	<792	
D-19	<23	628	
D-20	<23	746	
D-21	<23	<1,159	
D-22	<23	587	<3
D-23	<23	<746	
D-24	<23	<1,215	<3
D-25	<23	<700	
C-25 Center	50	1,005	
D-26	<53	712	<3
E-3	30	<1,067	<3
D-3 Center	<23	712	
E-4	<23	<884	
D-4 Center	<38	<1,022	
E-5	<38	<792	<6
E-6	<38	<884	<3
D-6 Center	<23	<746	
E-7	<23	964	
D-7 Center	<23	880	
D-7 Center (QC)	<23	587	
E-8	70	<562	<6
D-8 Center	<23	<562	
E-9	<23	<1,022	
D-9 Center	<38	628	
E-10	<38	880	<3
D-10 Center	<23	<608	
E-11	<23	1,131	
D-11 Center	<23	<1,113	
E-12	<23	670	
D-12 Center	<38	<1,159	
E-13	<23	1,299	
D-13 Center	<23	587	
E-14	30	880	<3
D-14 Center	<38	769	
E-15	<23	1,173	
D-15 Center	40	628	<3
E-16	<23	<976	
D-16 Center	30	<562	
E-17	<23	712	
D-17 Center	<38	754	
D-17 Center (QC)	<53	880	
E-18	<38	628	<3
E-19	<23	<562	
D-19 Center	<23	796	
E-20	30	670	<3
D-20 Center	<38	628	
E-21	<23	<562	
D-21 Center	<23	1,550	
E-22	<23	<1,022	<3
D-22 Center	<23	<562	
E-23	<23	<1,159	
D-23 Center	<38	<700	
E-24	<23	922	
D-24 Center	<23	<1,113	<3
E-25	<23	<1,022	
D-25 Center	<23	<1,159	
E-26	<23	<654	
B-26	<23	<884	<6
B-26 Center	<23	<1,067	
C-26	<23	<1,067	
B-27	<23	<838	
B-27 (QC)	<23	<654	
C-27	<38	<608	
F-6	<23	<976	
E-6 Center	30	922	
F-7	<23	<700	
E-7 Center	<23	<1,067	
F-8	40	1,131	<6
E-8 Center	<23	<930	
F-9	<38	<1,159	<3
E-9 Center	<23	<884	
F-10	<38	796	
E-10 Center	<23	838	
F-11	30	<654	5
E-11 Center	<23	<884	
F-12	<23	<976	
E-12 Center	<38	754	<3
F-13	<23	1,131	
E-13 Center	<53	796	
F-14	50	712	<3
F-15	<23	<562	
F-17	<23	<884	
F-17 (QC)	<23	<1,159	
E-17 Center	<23	<562	
F-18	<23	<746	
E-18 Center	<23	<1,159	
F-19	30	<608	
E-19 Center	<23	<1,113	
F-20	.<23	<700	
E-20 Center	40	754	<3
F-21	30	1,131	<3
E-21 Center	<23	796	
F-22	<23	<884	
E-22 Center	<23	922	
E-23 Center	<53	<691	
F-23	<23	<562	
F-24	<60	<599	<6
G-0	50	<654	<3
G-1	40	964	<3
G-2	<23	670	
G-3	<23	796	
G-4	<23	<1,159	
G-5	<23	670	
G-6	<23	1,382	
G-6 (QC)	<23	1,215	
G-7	40	<562	<3
G-8	<23	<1,067	
F-8 Center	<38	<1,067	
G-9	<53	<930	
F-9 Center	<23	712	
G-10	<38	880	
F-10 Center	<53	<1,113	
G-10	<23	<976	
G-11	<23	<746	
G-12	<38	<930	
G-13	50	<1,159	<6
F-13 Center	<23	1,047	
G-14	<38	<930	
F-14 Center	<38	880	
G-15	<23	<562	
G-20	<23	1,047	
F-20 Center	40	1,215	<6
G-21	30	1,215	
G-23	<23	922	
F-23 Center	<38	<792	
F-23 Center (QC)	<53	<930	
G-24	<38	<562	
C-15 (QC)	<38	964	<3
H-0	<38	<738	
G-0 Center	30	796	
H-1	<23	712	
G-1 Center	<38	1,089	
H-2	<23	1,173	
G-2 Center	<23	1,089	
H-3	<23	880	<3
H-4	<38	712	
G-4 Center	<23	<922	
H-5	<38	<645	<3
H-6	<23	<553	
G-6 Center	<38	<553	
H-7	<23	587	
G-7 Center	<23	<738	
H-8	40	628	<3
G-8 Center	<23	1,005	
H-9	<23	754	
G-9 Center	50	628	<3
H-10	<38	838	
G-10 Center	<23	1,089	
G-10 Center (QC)	<23	670	
H-11	30	754	<3
G-11 Center	<23	<1,014	
H-12	<23	<1,151	
G-12 Center	<23	<830	
H-13	<23	922	
H-14	<23	<738	
G-14 Center	<23	796	
H-15	<38	<1,105	<6
G-13 Center	<38	587	
H-20	30	<830	
H-21	50	<599	<3
G-20 Center	<23	<784	
I-0	<23	1,005	
I-2	<23	<922	
I-3	<38	922	
H-3 Center	<23	712	
I-4	40	964	<3
H-4 Center	<38	1,005	
I-1	<38	1,089	<6
H-2 Center	<53	<1,151	
I-5	<38	<599	<3
H-5 Center	<23	670	
H-5 Center (QC)	<38	<876	
I-6	<38	838	
I-10	<23	922	
H-10 Center	<38	964	<3
I-11	<23	1,382	
H-11 Center	30	922	
I-12	<23	922	
H-12 Center	<38	<1,059	<3
I-13	<23	<553	
J-0	<38	<968	
I-0 Center	<23	628	
J-1	<53	838	
J-2	<23	<922	
J-3	50	<784	<6
I-2 Center	<38	1,299	
K-0	<38	<645	
I-1 Center	<23	<1,014	
K-1	30	<1,151	<3
K-2	<23	754	
J-2 Center	<38	<1,151	
K-3	<38	1,047	
K-3 (QC)	<23	880	
K-4	40	<1,014	<3
K-5	<38	670	<3
K-6	<23	<553	
K-15	<38	<1,151	
K-16	<23	<553	
K-17	30	<553	
K-18	60	1,089	<3
K-20	<23	880	<3
K-21	<23	754	
L-0	<23	<553	
K-0 Center	<23	670	
L-1	<23	587	
K-1 Center	<23	<968	
L-2	<38	<1,105	<3
K-2 Center	<38	1,005	
L-3	<23	<1,014	
L-4	<38	<553	
K-4 Center	<23	<922	
L-5	<23	<830	
K-5 Center	<23	<1,059	
K-5 Center (QC)	<23	754	
L-6	<23	<738	
L-15	<23	628	
K-15 Center	<23	1,089	
L-16	30	<922	
K-16 Center	<23	922	
L-17	<23	<645	
K-17 Center	<53	712	
L-18	<38	<1,014	
L-20	<38	587	
K-20 Center	<23	<1,014	
L-21	<38	<645	
M-0	<23	1,299	
L-0 Center	<38	838	
M-1	<23	587	
L-1 Center	<23	628	
M-2	<38	880	
L-2 Center	<23	1,173	
M-3	<23	922	
L-3 Center	<23	838	
M-4	30	628	
M-4 (QC)	<38	922	
M-17	<23	587	
L-17 Center	<23	<922	
M-18	<23	1,047	
M-19	<23	<645	
M-20	<38	<1,105	
M-26	<23	<1,014	
M-27	<23	<553	
N-0	<23	<691	
M-0 Center	<23	1,089	
N-1	<23	<553	
M-1 Center	<23	1,215	
N-2	<23	587	
M-2 Center	<38	745	
N-3	<23	964	
M-3 Center	<23	<830	
N-4	<23	754	
N-19	<23	670	
M-19 Center	<23	<553	
N-20	<23	<1,059	
N-19 Center	<38	922	
N-19 Center (QC)	<23	628	
N-26	<23	670	
M-26 Center	<23	670	
N-27	<38	<599	<6
O-19	70	587	<3
O-20	60	<1,105	

[a]Average natural background = 13 dpm/100 cm²; measurements include natural background.
[b]Average natural background = 554 dpm/100 cm²; measurements include natural background.
[c]QC = quality control

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Post-Remedial Action Measurements for the Third Floor East Bay Walls

Table 4-11 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)
	Alpha[a]	Beta-Gamma[b]	Alpha
A-6 @ Base	122	546	
A-6 @ 1m	66	<813	
A-6 @ Center	<38	1,058	
A-6 @ 2m	<38	1,508	<2
A-7 @ Base	47	478	
A-7 @ 1m	141	1,126	5
A-7 @ Center	132	1,775	
A-8 @ Base	<75	1,024	
A-8 @ 1m	141	580	3
A-8 @ Center	104	1,297	
A-9 @ Base	47	1,400	
A-9 @ 1m	66	1,365	
A-9 @ Center	66	1,843	5
A-9 @ 1m Center			3
A-10 @ Base	<51	888	
A-10 @ 1m	<80	1,550	<2
A-10 @ Center	104	819	
A-11 @ Base	188	2,799	<2
A-11 @ 1m	85	2,355	
A-11 @ Center	<38	751	
A-11 @ 1m Center			<2
A-12 @ 1m Center	104	990	
A-12 @ 2m	<75	580	
A-12 @ Base	85	1,468	
A-12 @ 1m	<38	2,082	
A-12 @ 1m (QC)[c]	<51	1,912	
A-12 @ Center	169	717	
A-13 @ 2m	47	1,092	
A-13 @ 2m (QC)	85	1,263	
A-13 @ Base	38	888	
A-13 @ 1m	245	922	<2
A-13 @ Center	94	1,331	
A-14 @ Base	75	1,263	
A-14 @ 1m	40	670	<2
A-14 @ Center	264	853	<2
A-15 @ Base	<57	1,809	
A-15 @ 1m	188	2,014	
A-15 @ Center	264	1,263	3
A-16 @ Base	<44	649	
A-16 @ 1m	132	1,161	
A-16 @ Center	47	1,400	
A-17 @ Base	<31	956	
A-17 @ 1m	151	990	5
A-17 @ Center	207	1,229	11
A-17 @ 2m	104	1,058	
A-17 @ 1m Center	<75	1,536	
A-18 @ Base	<57	1,024	
A-18 @ 1m	94	1,058	
A-18 @ Center	226	1,468	5
A-18 @ 2m	130	2,095	<2
A-18 @ 1m Center	104	1,161	
A-19 @ Base	56	751	
A-19 @ Base (QC)	113	1,297	
A-19 @ 1m	160	649	3
A-19 @ Center	151	717	
A-19 @ 2m	85	1,434	
A-19 @ 1m Center	198	922	
A-20 @ Base	<38	444	
A-20 @ 1m	141	990	
A-20 @ Center	122	1,912	
A-20 @ 2m	141	1,024	
A-21 @ Base	<38	1,980	
A-21 @ 1m	160	1,331	3
A-21 @ Center	198	1,297	
A-22 @ Base	<51	1,195	
A-22 @ 1m	66	922	
A-22 @ Center	122	2,048	
A-22 @ 2m	85	1,263	<7
A-22 @ 1m Center	<87	1,229	
A-23 @ 2m	<51	614	
A-23 @ Base	386	2,663	11
A-23 @ 1m	85	751	
A-23 @ Center	94	1,741	
A-25 @ Base	104	649	
A-25 @ 1m	47	990	
A-25 @ Center	85	1,229	
A-25 @ Center (QC)	94	1,502	
A-26 @ Base	<51	1,058	
A-26 @ 1m	198	1,502	17
A-26 @ Center	104	1,195	
A-26 @ 2m	50	880	<2
A-27 @ Base	217	990	20
A-27 @ 1m	47	785	
D-27 @ 1m[d]	209	2,011	<2
G-27 @ 1m[d]	60	1,215	<2
J-27 @ 2m[d]	38	1,801	<7
M-27 @ 1m[d]	130	712	<2
O.4-26 @ 2m[e]	70	830	<2
O.4-22 @ 1m[e]	40	796	<5
O.4-18 @ 2m[e]	70	2,262	<7
O.4-14 @ 1m[e]	120	964	<2
O.4-10 @ 2m[e]	50	1,718	<2
O.4-6 @ 1m[e]	30	838	<7
M-0 @ 1m[f]	23	1,760	<2
K-0 @ 2m[f]	23	1,215	<2
G-0 @ 2m[f]	50	922	<2
D-0 @ 2m[f]	70	1,215	<7
D-0 @ 2m (QC)[c,f]	100	670	<2

[a]Average natural background = 24 dpm/100 cm²; measurements include natural background.
[b]Average natural background =1,044 dpm/100 cm²; measurements include natural background.
[c]QC = quality control
[d]Northern wall measurement.
[e]Eastern wall measurement.
[f]Southern wall measurement.

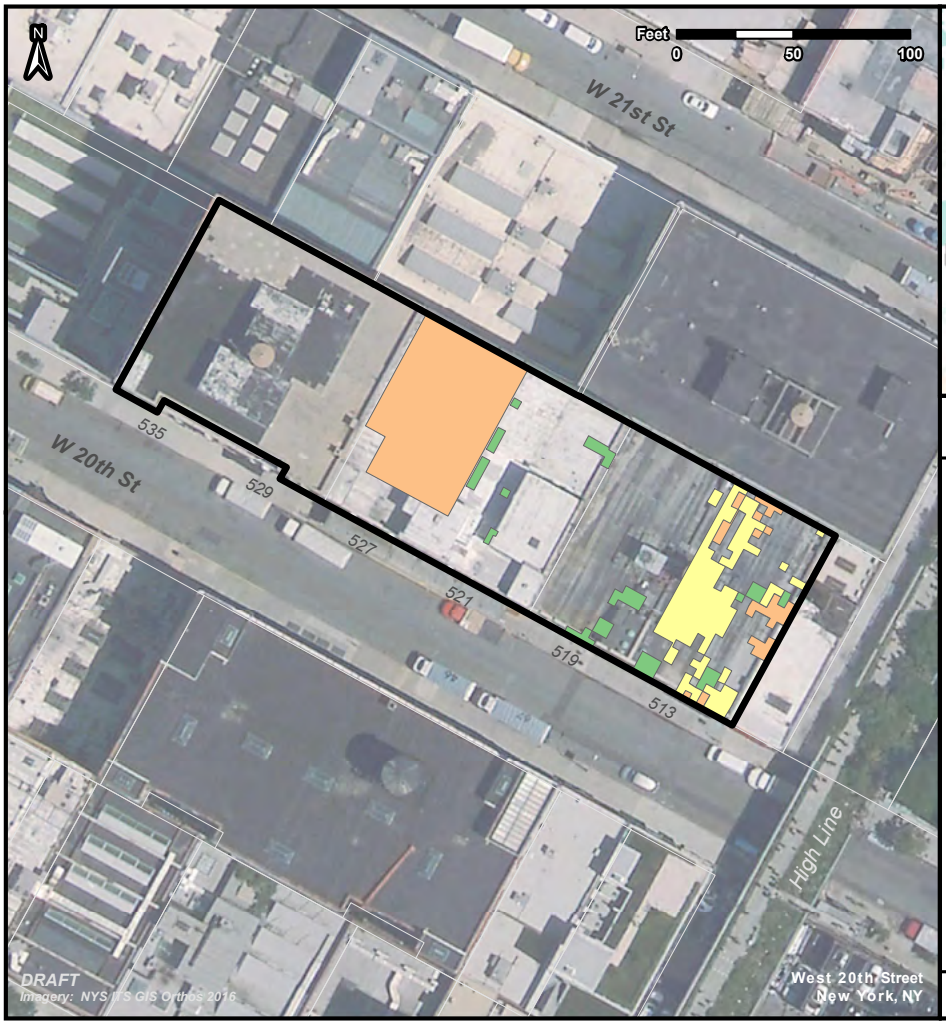
Post-Remedial Action Measurements for the Third Floor East Bay Bituminous Material

Table 4-16 in PRAR2

Grid Location	Direct Activity (dpm/100 cm²)		Removable Activity (dpm/100 cm²)	
	Alphaa	Beta-Gamma[b]	Alpha	Beta-Gamma
F-1	<44	<881	<2	
F-5	<31	649	<7	
F-15	<44	<580	<2	
C-8	<47	853	<7	
D-15	<69	512	<7	
B-17	85	<881	5	
B-22	<69	2,082	<7	<125
B-26	38	751	<2	
E-23	47	478	<7	
G-26	<44	<693	5	
J-27	<57	785	<7	
L-25	<44	478	<2	
L-10	47	751	<7	
N-22	94	2,253	<2	<66
N-15	75	<843	<7	
N-7	<44	<731	5	
K-18	<57	683	8	
K-7	38	614	<7	
I-5	47	<618	<2	
I-5 (QC)[c]	<69	<731	<7	

[a]Average natural background = 13 dpm/100 cm²; measurements include natural background.
[b]Average natural background = 544 dpm/100 cm²; measurements include natural background.
[c]QC = quality control

New York, New York, Site Map



U.S. DEPARTMENT OF ENERGY
OFFICE OF LEGACY MANAGEMENT

Work Performed by
Navarro Research & Engineering, Inc.
Under DOE Contract Number DE-LM0000421

New York, NY, Site

Site Boundary

REMEDIATED AREAS

- Third Floor
- First Floor
- Basement

DATE PREPARED:	FILE NAME:
March 29, 2018	NYN_DELIVERABLE

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