

39152



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**SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019**

January 2, 1996

Mr. Jeff Bechtel, OSC
Response and Prevention Branch
U.S. EPA, Region II
2890 Woodbridge Ave.,
Building 209
Edison, NJ 08837

Re: Grand Street Site
DCN # 00108
PCS #1139

Dear Jeff,

On December 27, 1995, a mercury vapor monitoring survey was conducted by Region II START at 722 Grand Street, Hoboken, NJ. The survey was performed by START members Dennis Foerter, Paul Potvin and Tom O'Neill, using the Jerome 431-X Mercury Vapor Analyzer (S/N: 01418). The survey results are included in Attachment A. Outside weather at the time of the survey was sunny, 20-30°F, with a northwest wind at 10-15 mph. The temperatures inside the building ranged from approximately 60-70°F.

The areas monitored were: the ground floor; common area hallways on each floor between the stairs; the unoccupied townhouse and all of the apartments, with the exception of 3D and 5A. A background reading was taken outside the building on Grand Street; two readings were taken at most monitoring locations, one in the breathing zone (4-5 ft.), and the other near the floor where mercury may have settled in the floor cracks.

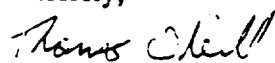
Visible puddles of mercury were observed in Apartment 5D between the second and third layer of wood flooring. This apartment has undergone a partial remediation by the contractor hired by the Grand Street Artists Partnership. The first layer of wood flooring was removed by the contractor and the second layer of floor was pulled up in certain areas exposing the pooled mercury. START observed that there is a layer of tar over the third (bottom) wood floor. However, the bottom floor has holes in it and insulation from the downstairs apartment was visible.

Photographs of Apartment 5D are included in Attachment B. These photos show the pooled mercury and the various floor layers.

Please note that the Jerome meter was calibrated on December 26, 1995, at the START office. A functional test was performed and the sensor was regenerated. The functional test results showed that the meter sensor's responsiveness may have been diminished. This meter was returned to Arizona Instruments for factory calibration on December 28, 1995.

Should you have any question, please feel free to contact me.

Sincerely,



Tom O'Neill, START PM

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ATTACHMENT A
Mercury Vapor Survey Results

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
Outside Bldg. Grand St. Entrance	0715	.000		
Basement near stairs	0716	.000	5 ft.	
Basement	0725	.000	6"	
2A #1 - Hallway	0730	.000	6"	Ceiling Fans On, Original Wood Floors
2A #1 - Hallway	0731	.006	4 ft.	
2A #2 - Dining Room	0735	.008	6"	
2A #2 - Dining Room	0736	.011	5 ft.	
2A #3 - Study (Ground Floor)	0739	.013	6"	Concrete Floor
2A #3 - Study (Ground Floor)	0740	.010	5 ft.	
2A #4 - Bedroom	0741	.008	6"	
2A #4 - Bedroom	0741	.009	5 ft.	
2B #1 - Studio Entrance	0744	.004	6"	Vinyl Tile Floor
2B #1 - Studio Entrance	0745	.005	5 ft.	
2B #2 - Studio NW Corner	0747	.006	6"	Painted Wood Floors
2B #2 - Studio NW Corner	0747	.006	5 ft.	
2B #3 - Office	0748	.006	6"	
2B #3 - Office	0748	.006	5 ft.	
2C #1 - Living Room	0752	.006	6"	Wood Floors, Ceiling Fans On
2C #1 - Living Room	0753	.000	5 ft.	
2C #2 - Study	0753	.006	6"	
2C #2 - Study	0754	.004	5 ft.	

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
2C #3 - SE Bedroom	0755	.005	6"	
2C #3 - SE Bedroom	0755	.005	5 ft.	
2C #4 - Central Bedroom	0755	.005	6"	
2C #4 - Central Bedroom	0756	.004	5 ft.	
2C #5 - SW Bedroom	0756	.004	6"	
2C #5 - SW Bedroom	0757	.006	5 ft.	
3A #1 - Entrance Hallway	0759	.003	6"	
3A #1 - Entrance Hallway	0759	.000	5 ft.	
3A #2 - Bathroom	0800	.003	6"	Under Tub
3A #3 - Bathroom	0801	.004	6"	Corner By The Shower
3A #4 - Laundry Room	0802	.005	6"	
3A #4 - Laundry Room	0802	.006	5 ft.	
3A #4 - Laundry Room	0803	.004	12 ft.	Near Overhead Pipe, Pipe Runs Horizontally
3A #5 - Kitchen	0805	.005	6"	
3A #5 - Kitchen	0806	.004	5 ft.	
3A #6 - Kitchen	0807	.004	6"	Under Stove
3A #7 - Living Room	0808	.005	6"	Near South Wall
3A #7 - Living Room	0808	.004	5 ft.	
3A #8 - Living Room	0809	.005	6"	Wall Near Studio Entrance
3A #9 - Studio	0809	.005	6"	Near Door
3A #9 - Studio	0810	.005	5 ft.	

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
3A #10 - Bedroom	0811	.003	6"	Carpeted Floors
3A #10 - Bedroom	0812	.003	5 ft.	
3C #1 - Dining Room	0813	.000	6"	Wood Floors, Ceiling Fans On
3C #1 - Dining Room	0813	.000	5 ft.	
3C #2 - Studio	0814	.000	6"	
3C #2 - Studio	0815	.000	5 ft.	
3C #3 - Bedroom	0816	.003	6"	
3C #3 - Bedroom	0816	.004	5 ft.	
3C #4 - Study	0817	.004	6"	
3C #4 - Study	0817	.004	5 ft.	
3B #1 - Hallway	0818	.003	5 ft.	Wood Floors, Concrete Underneath
3B #2 - Hallway, South Wall	0819	.004	6"	
3B #3 - Kitchen	0820	.003	6"	
3B #3 - Kitchen	0820	.003	5 ft.	
3B #4 - Study	0821	.000	6"	
3B #4 - Study	0821	.000	5 ft.	
3B #5 - Bedroom	0822	.000	6"	
3B #5 - Bedroom	0822	.000	5 ft.	
3B #6 - Living Room	0822	.000	6"	At Patched Wood Floor
4B #1 - Entrance Hallway	0824	.000	6"	Tile Floor
4B #1 - Entrance Hallway	0825	.000	5 ft.	

**REGION 11 START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
4B #2 - Kitchen Area	0826	.000	6"	New Wood Floor
4B #2 - Kitchen Area	0826	.000	5 ft.	
4B #3 - Living Room	0827	.000	6"	Near Heater, New Wood Floor
4B #4 - NW Bedroom	0827	.000	6"	
4B #4 - NW Bedroom	0828	.000	5 ft.	
4B #5 - NE Bedroom	0829	.004	6"	
4B #5 - NE Bedroom	0829	.004	5 ft.	
4B #6 - Bathroom	0829	.005	6"	Marble Floor
4B #6 - Bathroom	0830	.006	5 ft.	
2D #1 - Entrance Hallway	0832	.000	6"	
2D #1 - Entrance Hallway	0832	.000	5 ft.	
2D #2 - Dining Room	0833	.000	6"	Near Kitchen
2D #2 - Dining Room	0833	.000	5 ft.	
2D #3 - Dining Room	0834	.000	6"	Near NW Corner
2D #3 - Dining Room	0834	.000	5 ft.	
2D #4 - Bedroom	0835	.000	6"	
2D #4 - Bedroom	0835	.000	5 ft.	
2D #5 - Studio	0837	.000	6"	
2D #5 - Studio	0837	.000	5 ft.	
3D - Doorway	0839	.000	1"	Unable to Gain Access, Taken Outside Doorway
4A #1 - Closet	0840	.000	6"	Residence Previously Vacated

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
4A #1 - Closet	0840	.000	5 ft.	
4A #2 - Kitchen	0841	.000		Countertop Near Stove
4A #3 - Wall	0842	.000	6 ft.	Near Previous Cleanup, Unpainted Brick wall
4A #4 - Studio	0843	.000	6"	Painted Wood Floor
4A #4 - Studio	0843	.000	5 ft.	
4A #5 - Living Room	0844	.000	6"	
4A #5 - Living Room	0844	.000	5 ft.	
4A #6 - Bedroom	0845	.000	6"	
4A #6 - Bedroom	0845	.000	5 ft.	
4A #7 - Kitchen	0846	.000	5 ft.	
4A #8 - Kitchen	0846	.000		Sink Near Floor
4A Closet	0918	.000	5 ft.	
4A Vac. Cleaner Bag	0919	.000	-	
4C #1 - Entrance Hallway	0848	.000	6"	
4C #1 - Entrance Hallway	0848	.000	5 ft.	
4C #2 - Study	0850	.000	6"	
4C #2 - Study	0850	.000	5 ft.	
4C #3 - Child's bedroom	0851	.000	6"	
4C #3 - Child's bedroom	0851	.000	5 ft.	
4C #4 - Living Room	0852	.000	6"	
4C #4 - Living Room	0852	.000	5 ft.	

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
4C #5 - Bedroom	0853	.000	6 "	
4C #5 - Bedroom	0853	.000	5 ft.	
4C #6 - Bathroom	0854	.000	6"	
4C #6 - Bathroom	0854	.000	5 ft.	
4C #7 - Laundry	0854	.000	5 ft.	
4C #8 - Laundry	0854	.000	6"	Floor Drain
4D #1 - Living/Dining Room	0856	.000	6"	Unoccupied, Original Wood Floors
4D #1 - Living/Dining Room	0856	.000	5 ft.	
4D #2 - Bedroom	0856	.000	6"	
4D #2 - Bedroom	0857	.000	5 ft.	
4D #3 - Living/Dining Room Wall	0857	.000		Outlet Hole
4D #4 - Studio	0858	.000	6"	
4D #4 - Studio	0858	.000	5 ft.	
4D #5 - Studio	0859	.000	6"	
4D #5 - Studio	0859	.000	5 ft.	
4D #6 - Study	0900	.000	< 6"	Under Radiator
4D #7 - Study	0901	.000	6"	
4D #7 - Study	0901	.000	5 ft.	
4D #8 - Old Vent Shaft	0902	.000	6"	
5C #1 - Studio	0904	.000	6'	Windows Open, Fans On
5C #1 - Studio	0904	.000	5 ft.	

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
5C #2 - Living Room	0905	.000	6"	
5C #2 - Living Room	0905	.000	5 ft.	
5C #3 - Bedroom	0907	.000	6"	Mezzanine Area
5C #3 - Bedroom	0907	.000	5 ft.	
5C #4 - Study	0908	.000	6"	
5C #4 - Study	0908	.000	5 ft.	
5C #5 - Kitchen	0909	.000	6"	Original Wood Floor
5C #5 - Kitchen	0909	.000	5 ft.	
5B #1 - Entrance Hallway	0910	.000	6'	New Wood Floors/Painted Brick Wall
5B #1 - Entrance Hallway	0910	.000	5 ft.	
5B #2 - Living Room	0911	.000	6"	
5B #2 - Living Room	0911	.000	5 ft.	
5B #3 - Bedroom	0912	.000	6"	
5B #3 - Bedroom	0912	.000	5 ft.	
5B #4 - Den	0912	.000	6"	
5B #4 - Den	0913	.000	5 ft.	
5B #5 - Studio	0914	.000	6"	New Wood Floor - Panels
5B #5 - Studio	0914	.000	5 ft.	
Ground Floor	0923	.000	6"	Unoccupied, Used for Storage
Ground Floor	0924	.000	5 ft.	
Ground Floor	Loc. #2 0924	.000	6"	

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION		TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
Ground Floor	Loc. #2	0924	.000	5 ft.	
Ground Floor	Loc. #3	0925	.000	6"	
Ground Floor	Loc. #3	0925	.000	5 ft.	
Ground Floor	Loc. #4	0926	.000	6"	
Ground Floor	Loc. #4	0926	.000	5 ft.	
Ground Floor Bathroom	Loc. #5	0926	.000	6"	Hole In Floor
Ground Floor Bathroom	Loc. #5	0926	.000	5 ft.	
Townhouse #1		0949	.000	6"	Unoccupied
Townhouse #1		0949	.000	5 ft.	
Townhouse #2		0950	.000	6"	
Townhouse #2		0950	.000	5 ft.	
Townhouse #3		0950	.000	6"	
Townhouse #3		0951	.000	5 ft.	
Townhouse #4		0951	.000	6"	Bathroom
Townhouse #4		0952	.000	5 ft.	
Townhouse #5		0952	.000	6"	
Townhouse #5		0952	.000	5 ft.	
Townhouse #6		0953	.000	6"	
Townhouse #6		0953	.000	5 ft.	
Townhouse Wall Outlet		0953	.000		
Townhouse #7		0954	.000	6"	

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m ³ Hg	MONITORING HEIGHT	COMMENTS
Townhouse #7	0954	.000	5 ft.	
Townhouse #8	0955	.000	6"	
Townhouse #8	0955	.000	5 ft.	
Townhouse Ceiling Hole in Kitchen	0956	.000		
SD Doorway	1011	.000	6"	Apt. Unoccupied
SD - Closet	1012	.003		
SD # 1 East Room Doorway	1012	.000		
SD Doorway	1110	.000		Sensor On Jerome Meter Regenerated
SD #1 Over Visible Hg Puddle	1111	.000		
SD #2 Closet Area	1112	.003		
SD #3 - Fire Escape Door	1113	.003		
SD #4 - Floor	1117	.003		
SD #5	1117	.000	6"	
SD #6 - Over Visible Hg Puddle	1118	.003		
SD #7	1119	.000		Below Floor Boards
SD #8	1119	.003		In Wall
SD #9	1119	.004		Duplicate of #8
SD #10	1120	.005	4 - 5 ft.	
SD #11	1122	.003		
SD #12 - 1/2 way up to Loft	1123	.005		
SD #13 - Floor	1124	.005	6"	Visible Puddle of Hg

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**REGION II START
AIR MONITORING LOG
722 GRAND ST., HOBOKEN, NJ**

LOCATION	TIME	READING mg/m³ Hg	MONITORING HEIGHT	COMMENTS
5D #14	1124	.000	4 - 5 ft.	
#5 Hall - Between Stair Cases	1145	.000	4 - 5 ft.	
#4 Hall - Between Stair Cases	1146	.000	4 - 5 ft.	
#3 Hall - Between Stair Cases	1146	.000	4 - 5 ft.	
#2 Hall - Between Stair Cases	1147	.000	4 - 5 ft.	
#1 Hall - Between Stair Cases	1148	.000	4 - 5 ft.	

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ATTACHMENT B

**Photographs from December 27, 1995
Mercury Vapor Survey**

200645



Photo 1: Apartment 5D, View of Living Room, East Side of Building

Photo 2: Apartment 5 D. View of floor boards that have been pulled up in living room.
NOTE: Top floor has been removed and is visible under the wall to the right.

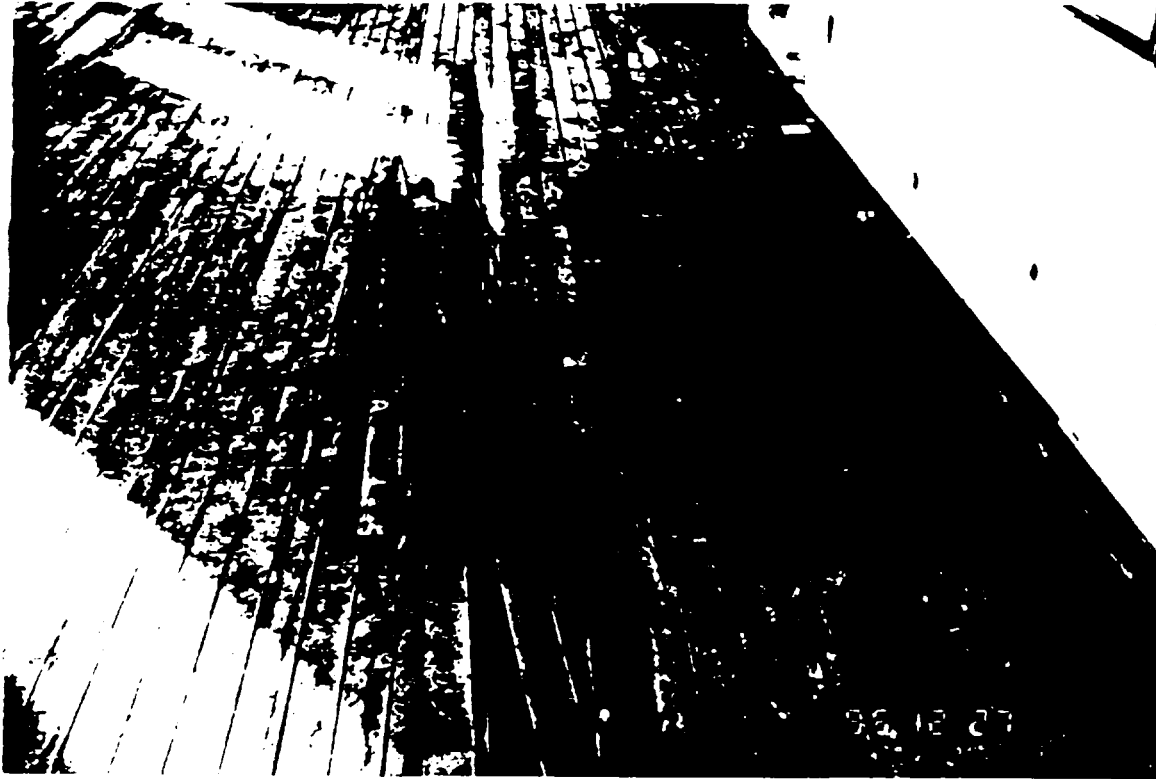


Photo 3: Apartment 5D. Close-up of flooring showing existing hole in bottom floor and tar layer. Pooled mercury can be seen in top left corner of photo.



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Photo 4: Another view of same floor section.
Pooled mercury can be seen near bottom of photo.



Photo 5: Exterior of 722 Grand St., Hoboken , NJ.
Unoccupied Townhouse is to the left.

