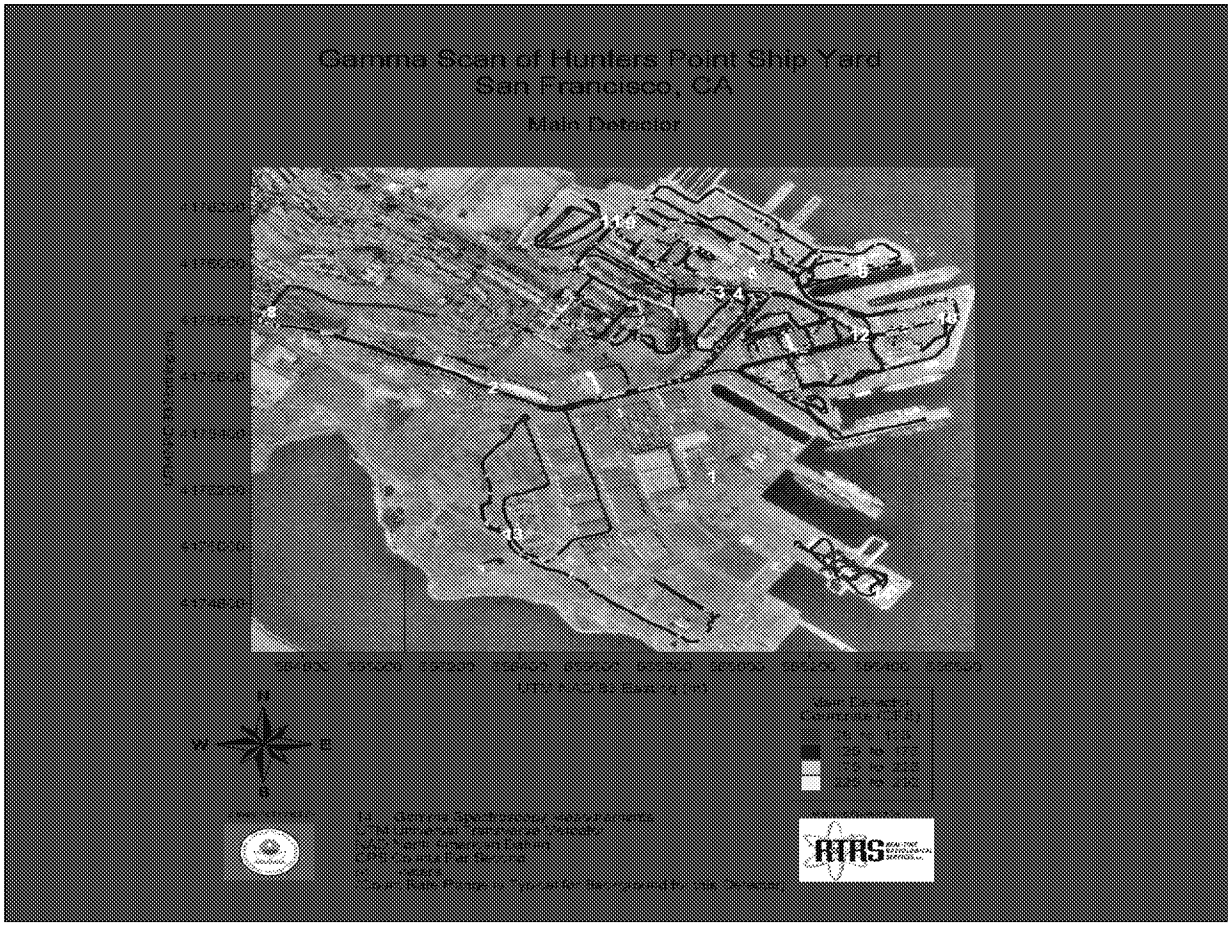
United States
Environmental Protection Agency

Radiological Scanner Van Survey
Hunters Point Shipyard

- US EPA Region 9 requested a radiological scanner van survey of Hunters Point Naval Shipyard

- This survey was conducted by EPA's Radiation And Indoor Environments National Laboratory (RIENL) in Las Vegas, NV.

- The radiological (gamma) scan was conducted from September 9 through 12, 2002.
- A map of the scanned areas is included in the report


Gamma Scan of Hunters Point Ship Yard
San Francisco, CA
Main Detector
RTRS

The scanner van is equipped with two 4” X 4”X 16” sodium iodide detectors

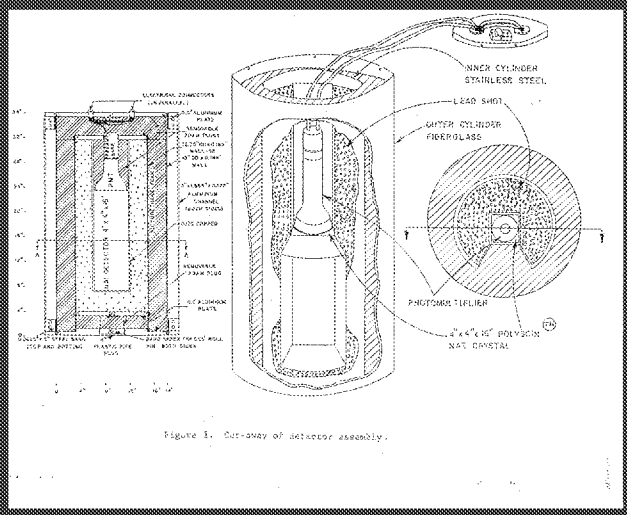
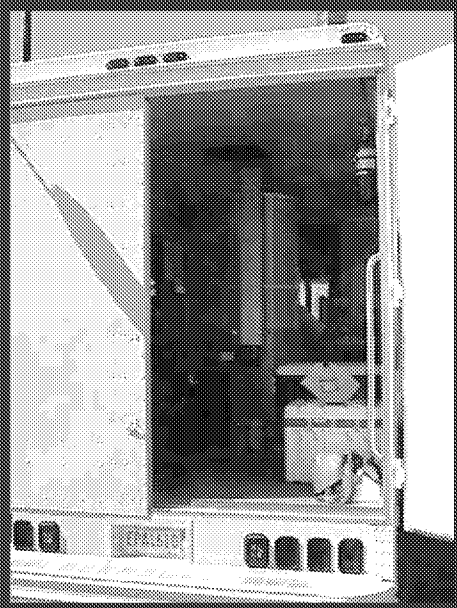


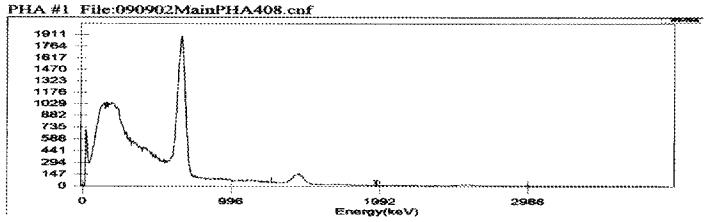
Figure 1. Cut-away of detector assembly.



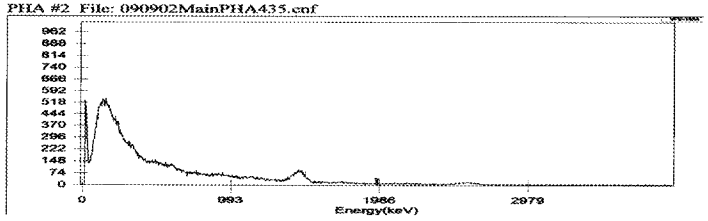
Scan Van Gamma Spectrums

Hunters Point Gamma Spectroscopy

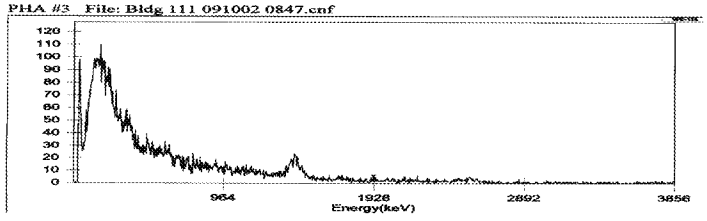
PHA #1 File:090902MainPHA408.cnf



PHA #2 File: 090902MainPHA435.cnf



PHA #3 File: Bldg 111 091002 0847.cnf



The scan van covered all navigable roads in Parcel A

Parcels B and C were also scanned

Parcels D & E only got partially scanned due to:

– Overgrowth and inaccessible roads in Parcel E

– Radiation investigations and/or remediation activities in Parcel D

Pump house anomaly

– The scan van detected natural Potassium (K-40) and natural radiation from the red brick walls of the pump house

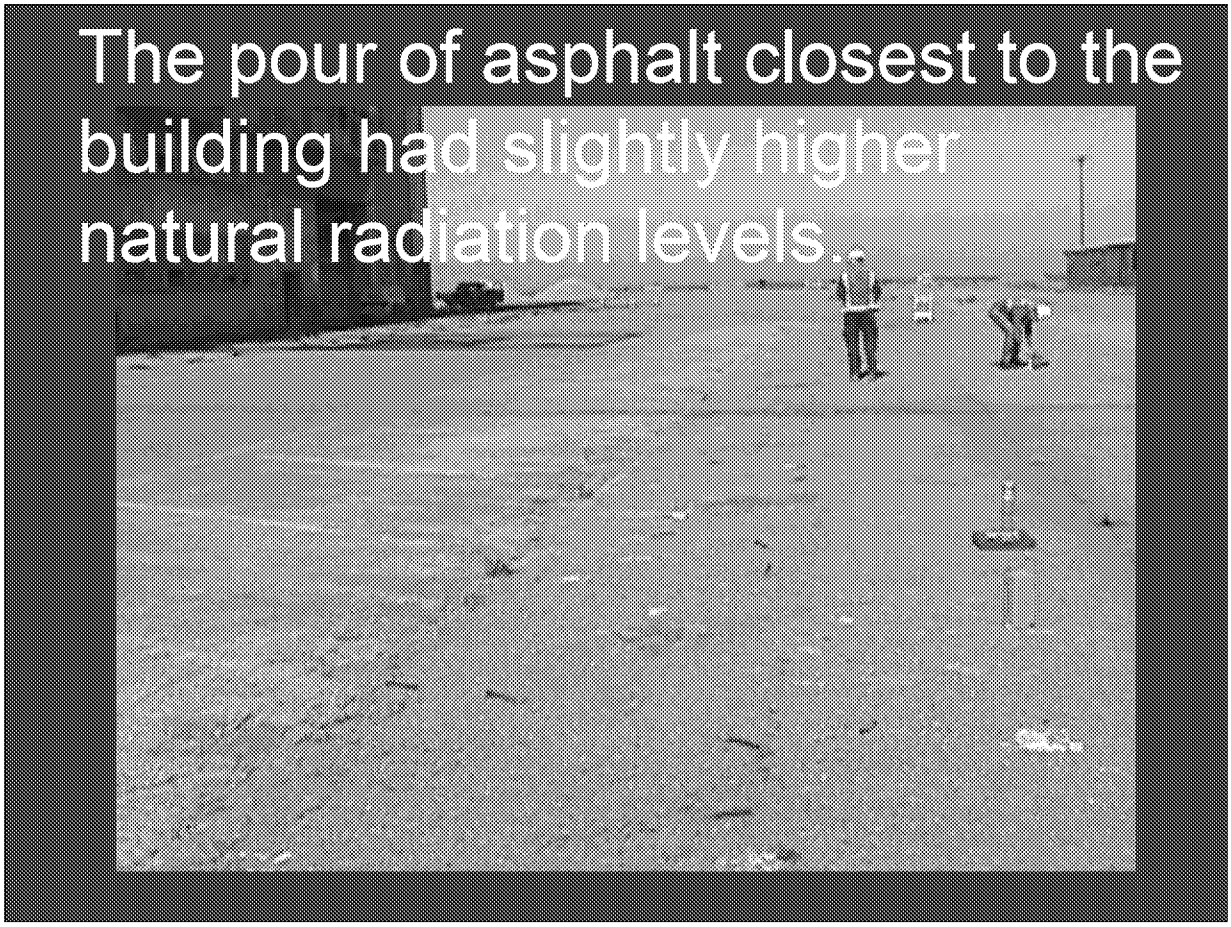
Friedell Street anomaly

Firebrick in the chimney and fireplace contains natural radiation

So does the barbeque pit next door

Building 253 Anomaly

Natural Potassium (K-40) that has accumulated along the base of the building was detected by the scan van


The pour of asphalt closest to the building had slightly higher natural radiation levels.

Conclusions

- All anomalies detected during the scan were natural occurring sources at levels consistent with what would normally be found in the environment.

- Based on the scan results, none of the scanned areas warrant further radiological investigation.

- The report of the radiological scanner van survey of Hunters Point Shipyard was completed in late March 2003
- The report was released to the public on April 10, 2003
- Copies were made available to RAB members at the April 24, 2003 RAB meeting