

SUPERSTORM SANDY RESPONSE & CLEAN-UP | PA, NJ & NY



200 Commercial Facilities



October 2012 - Ongoing



Various Clients



Disaster Response & Recovery



Shoring, Bracing & Demolition



Hazardous Material Abatement



Drying & Dehumidification



Debris Removal

LVI responded and recovered over 200 commercial facilities including high-rise buildings, hotels, healthcare, industrial and retail facilities as well as university campuses damaged by Superstorm Sandy. Areas covered in the recovery effort included Western PA, Central and Northern NJ, NYC and Long Island.

LVI's ability to respond quickly with labor, specialty equipment and overall expertise ensured our clients suffered the least possible damage as a result of this catastrophic, historical event. Our unique portfolio management program places substantial importance on proactively addressing critical areas of concern prior to an event. These proactive measures allowed our clients to be the first of the heavily damaged buildings in Manhattan to gain re-occupancy while others struggled with logistics.

LVI's asset monitoring systems accurately identified our client's critical facilities within the impact zone prior to Sandy making landfall. LVI's private weather monitoring service and on staff meteorologist, provided critical intelligence to facilitate sound decisions regarding the pre-positioning of assets and reservation of specialty equipment.



POWER PROVISIONING

As one of the largest power events in our history, temporary power demand proved to be an enormous challenge. LVI successfully provided our clients with all necessary power provisioning resources to facilitate the recovery effort during the initial response. Over 137 individual generators ranging from 800Kw to 2 Meg units were utilized throughout the impacted areas. Generator maintenance and fuel services were of critical importance to facilitating the stabilization and recovery of each property. Over 1.6 million gallons of fuel was consumed during the first few weeks of the effort. Limited access and laydown space in Manhattan complicated the mobilization of these large generator units. Cranes were utilized to lift many of the generators into position.

LABOR FORCE

Massive labor forces comprised of multiple trades were required to perform the recovery effort at each of the damaged locations. LVI worked in excess of a quarter of a million man-hours with over 800 full time employees to ensure our clients recovered from this historic event. Multiple specialty trades worked in concert including the operating engineers, environmental laborers, and demolition experts and various other trades providing the proper expertise for each discipline.

PUMP OUT

Facilitating the pump out of millions of gallons of floodwater from lower levels of damaged buildings was second phase of the recovery effort. Common walls and up-stream pumping activities complicated the process. Large hydraulic pumps were submerged in the buildings, below floating debris containing petroleum product to effectively remove the seawater from the buildings.

HAZARDOUS MATERIAL MANAGEMENT

LVI's long history of environmental regulatory compliance assisted our efforts to collaborate with environmental agencies to provide the most efficient and safest means of dealing with hazardous material contaminants in the floodwater. LVI worked with the New York City Department of Environmental Protection to design the process for containing and separating petroleum waste and other hazardous material from floodwaters. Other hazardous material including asbestos containing building materials were contained, abated, and disposed of per the local regulations. Accessing these materials in some loca-

tions required elaborate scaffolding and dance floor systems. Damaged asbestos containing fireproofing had to be abated in many of the Manhattan high-rises. Proper decontamination of all contaminants was carefully addressed to insure the safety and integrity of the buildings.

SHORING/BRACING AND DEMOLITION

Structural damage required shoring and bracing in many of the older buildings. Selective demolition of compromised building material, equipment, and furniture produced huge debris disposal.

DEBRIS REMOVAL

In addition to floodwaters, tons of sand and mixed debris had to be excavated to gain access to multiple facilities on Coney Island and in Brooklyn. Heavy equipment including loaders, dump trucks, and excavator's bobcats removed over 4,000 tons of mixed debris. Vehicles trapped in underground parking garages were lifted out and transported to offsite locations for possessing.

DRYING AND DEHUMIDIFICATION

Trailer mounted desiccant dehumidification units in addition to portable desiccants were utilized to remove residual moisture from the building materials. Drying activities were of critical importance to avoid further environmental and indoor air quality issues. Lack of temperature control during the initial stages of recovery further complicated the effort. To combat the extreme temperatures and possibility of pipe bursts temporary heat was utilized to control the existing conditions.

VALUABLE PAPERS AND RECORDS

LVI processed in excess of 8,500 cf of valuable papers and records from various facilities.