Polygon uses state-of-the-art vacuum freeze drying chambers that use negative pressure to create the most effective drying solution for certain materials and projects. Polygon has also perfected the use of a desiccant air dry distribution system. This energy saving technology system allows Polygon to provide customers with real time access to documents as they complete reprocessing—a major advantage when trying to maintain the activities of a company or organization during a disaster.
Our Services

Vacuum Freeze Drying
The vacuum freeze drying process is the most efficient and effective method for the drying of wet papers and other documents. Using this method, Polygon technicians can restore water damaged materials quickly and effectively, reducing back processing time by 20 to 30 percent. During this process, the materials are placed in an airtight chamber into which negative vacuum pressure is induced. As a result, the documents go from the frozen state to being dry without ever becoming re-liquefied. This method is especially beneficial in cases where documents may warp or distort.

Cleaning and Sterilization
Cleaning removes any dirt, grime or fungi spores. Polygon’s trained staff clean each document using materials such as sponges and scrub pads, while avoiding the use of liquid solutions that would reactivate the moisture in the materials. In cases with mold spores, individuals follow standard procedures for spore removal, including the use of High Efficiency Particulate Air (HEPA) vacuum systems. If the materials have been exposed to hazardous waste or black water, they can be treated with gamma irradiation. Documents exposed to gamma irradiation will have no chemical residue and are considered sterile.

Desiccant Air Drying
In this process, the frozen documents are removed from the packing cases and placed on racks and shelves. Desiccant dehumidifiers use changing vapor pressures to dry air continuously in a repeating cycle. In so doing, the dry air created in the room removes the moisture from the documents. Depending on the amount of moisture and documents being dried, the process can take from one to seven days to complete.

Digital Imaging
Some clients may choose to digitally image their records after or in lieu of restoration. Storing digital copies of important files offers many benefits and can be a safeguard to protect these records from future environmental concerns. Polygon can provide digital imaging services in a customized format specific to each set of client needs.

Polygon’s Value

Desiccant drying solutions allow our customers to have real time access to their critical documents.

Polygon’s Priority Client Program offers benefits that are designed to minimize business interruption, reduce the overall cost of the incident and provide priority access to our professionals.

Polygon’s Document Recovery Centers put the security of your documents first. All Recovery Specialists have had HIPPA Training.

Energy efficient equipment reducing operating cost by up to 40%.

Polygon maintains a 24 hour Emergency Response Team to ensure a rapid response to our clients.
Financial Firms
Super Storm Sandy affected thousands of businesses on lower Wall Street and beyond. A prestigious financial firm’s three sub-basements had been totally submerged for three days before waters receded. In the basements were over 30,000 boxes of client records full of confidential and sensitive personal data. All of the data had to be handled and destroyed in ways that complied with federal statutes protecting personal information. The business records that needed restoration had to be dried, cleaned and sterilized, as the flood water from Sandy was highly polluted. All of the restoration work was completed in less than 30 days at the client’s request so their doors could open as quickly as possible and they could get back to business as usual.

Amherst College
Amherst College houses some of the most important historic documents of old New England. When the pipes burst during a deep winter freeze and thousands of vital papers, documents and books were damaged, Polygon was brought in to inventory, pack-out, vacuum freeze dry and clean the affected materials. All damaged documents, whether lightly affected or completely saturated, were removed and dried. This project was completed in thirty days so the school did not have to interrupt any scheduled activities or programs, and within authorized budget.

Department of Veterans Affairs
Polygon has experience in the handling of classified and confidential government files, as was the case with the Department of Veterans Administration in Minneapolis. The VA required that their documents be handled only under the direct supervision of a VA staff member. Polygon has the flexibility to offer several drying and restoration solutions to give our customers the project path they require for their unique situation. In this case, the documents could not be moved to an outside document facility so they had to be dried, cleaned and decontaminated on-site. Not only did this allow the degree of scrutiny and security required by the client, but the VA had immediate access to their records so their business cycle was not interrupted in the slightest.

Polygon In Action

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Temporary Climate Solutions
• Construction Drying
• Surface Preparation & Coating
• Temporary Humidity Control

Document Recovery Services
• Vacuum Freeze Drying
• Cleaning & Sterilization
• Digital Imaging

Emergency Drying Services
• Technical Drying
• Moisture Management
• Equipment Rental

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