



Statement of Basis

SWMUs 5 and 7

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Acronyms Used in this Presentation

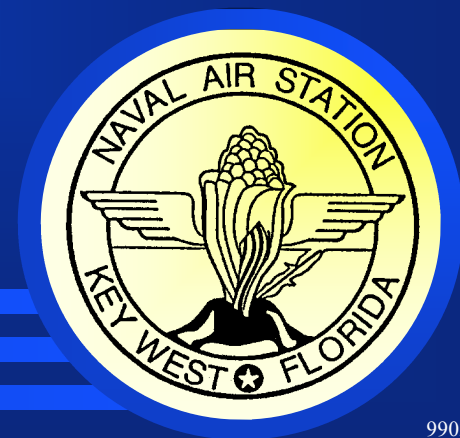
- **CA - Corrective Action**
- **CAD - Corrective Action Design**
- **CMS - Corrective Measures Study**
- **COC - Chemical of Concern**
- **IRA - Interim Remedial Action**
- **LUC - Land Use Control**
- **PCB - Polychlorinated biphenyl**
- **PM - Permit Modification**





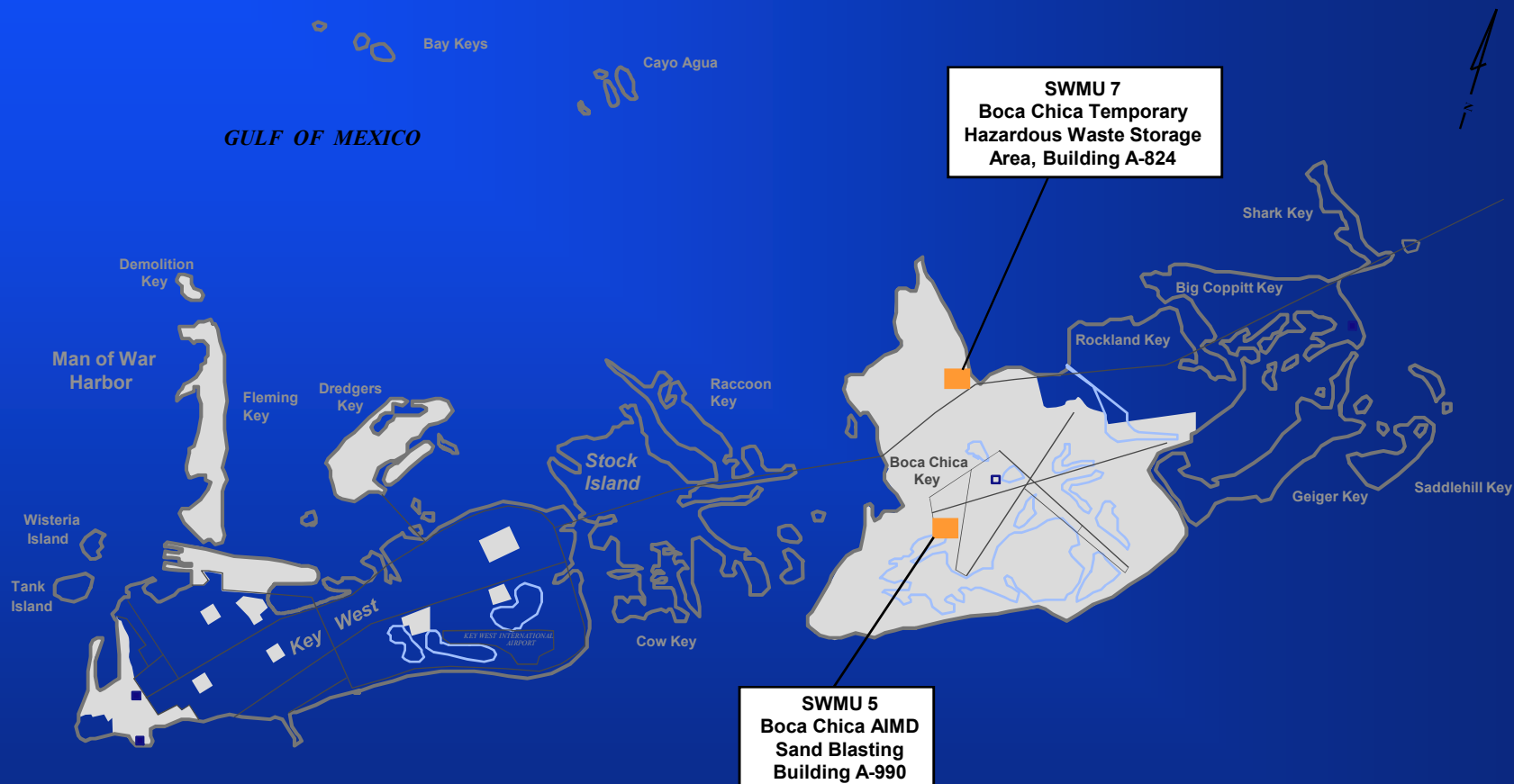
More Acronyms

- **ppm - parts per million**
- **PR - Preliminary Review**
- **RCRA - Resource Conservation and Recovery Act**
- **RFA - RCRA Facility Assessment**
- **RFI - RCRA Facility Investigation**
- **RGO - Remedial Goal Option**
- **SOB - Statement of Basis**
- **SWMU - Solid Waste Management Unit**
- **VSI - Visual Site Inspection**



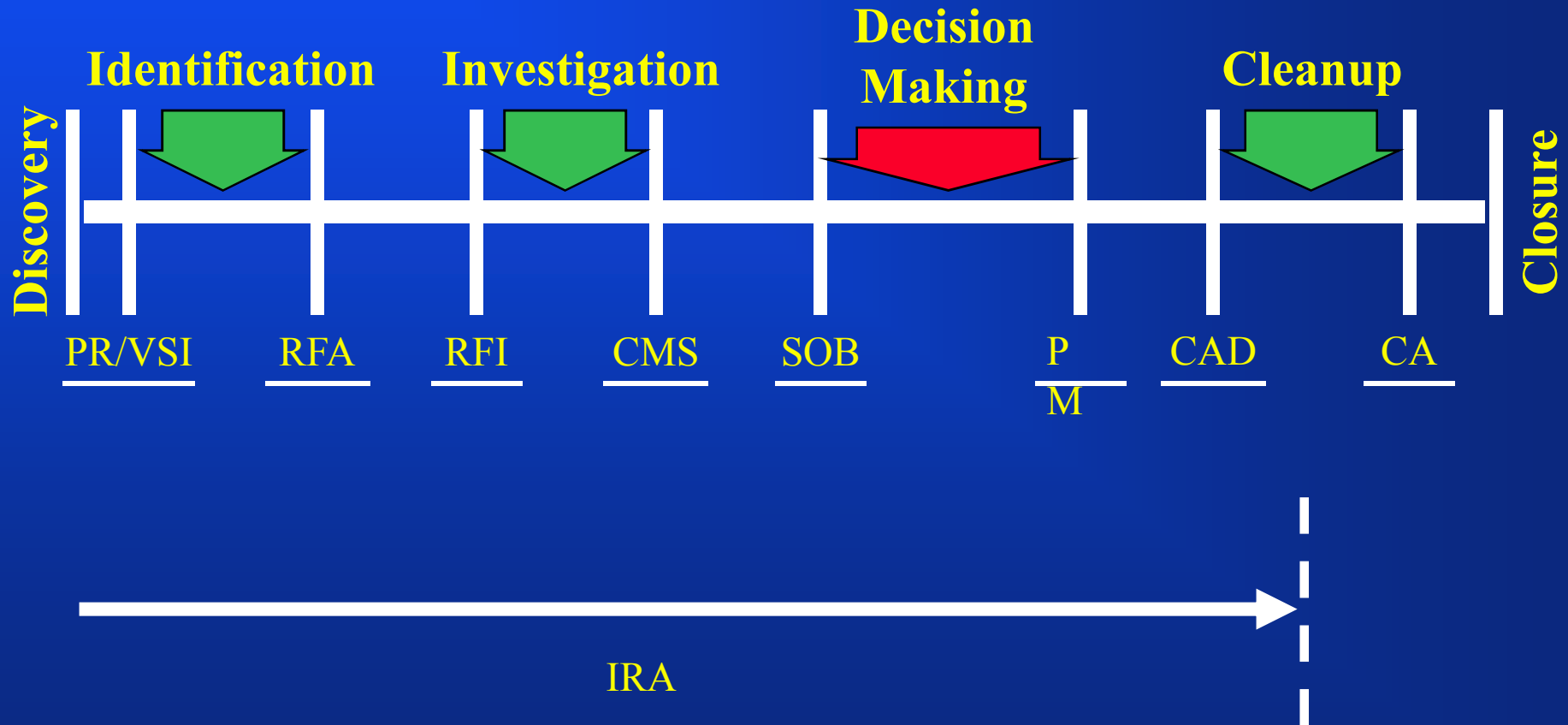


Site Map





The Typical Life of a RCRA Site





Purpose of Statement of Basis

- Identify proposed remedy
- Explain the rationale for its selection
 - Describe all the remedies evaluated in the CMS
 - Summarize findings of RCRA Facility Investigation
- Provide information to the public on involvement in the remedy selection process
- Solicit public review and comment





Selection of the Proposed Remedy

- Protection of human health and the environment
- Media cleanup standards
- Source control
- Waste management standards
- Long-term reliability and effectiveness
- Reduction in toxicity, mobility, or volume
- Short-term effectiveness
- Implementability
- Cost

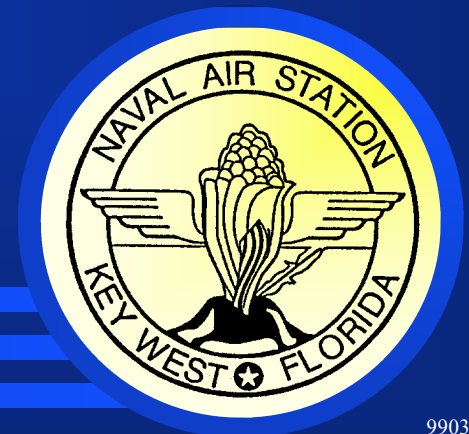




SWMU 5

Boca Chica Open Disposal Area

- **Located at the western end of the airfield on Boca Chica Key**
- **This 65-foot by 90-foot area has been used since the early 1970s for the removal of painted surfaces from ground support equipment, aircraft parts, and other metal objects**
 - **1970s - 1995: Sandblasting residue was normally left on the ground in the sandblasting area or stockpiled for disposal**
 - **Blasting residues were regularly collected, containerized, and disposed**

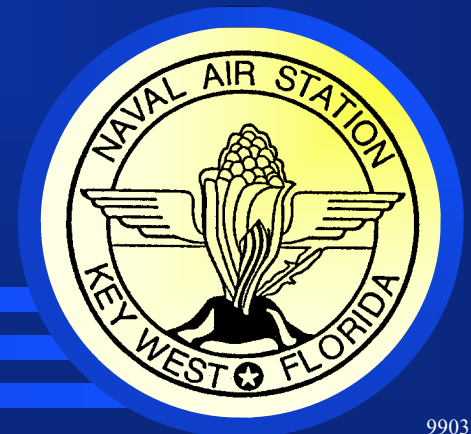




SWMU 5 - Boca Chica

Open Disposal Area (continued)

- **Although much of the area surrounding the site is concrete, there is an earthen berm to the south and a grassy area and pond to the southwest**
- **Concrete ditch south of site carries runoff to pond**





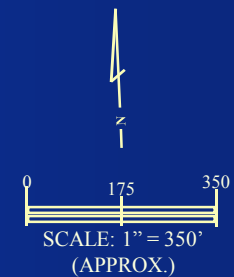
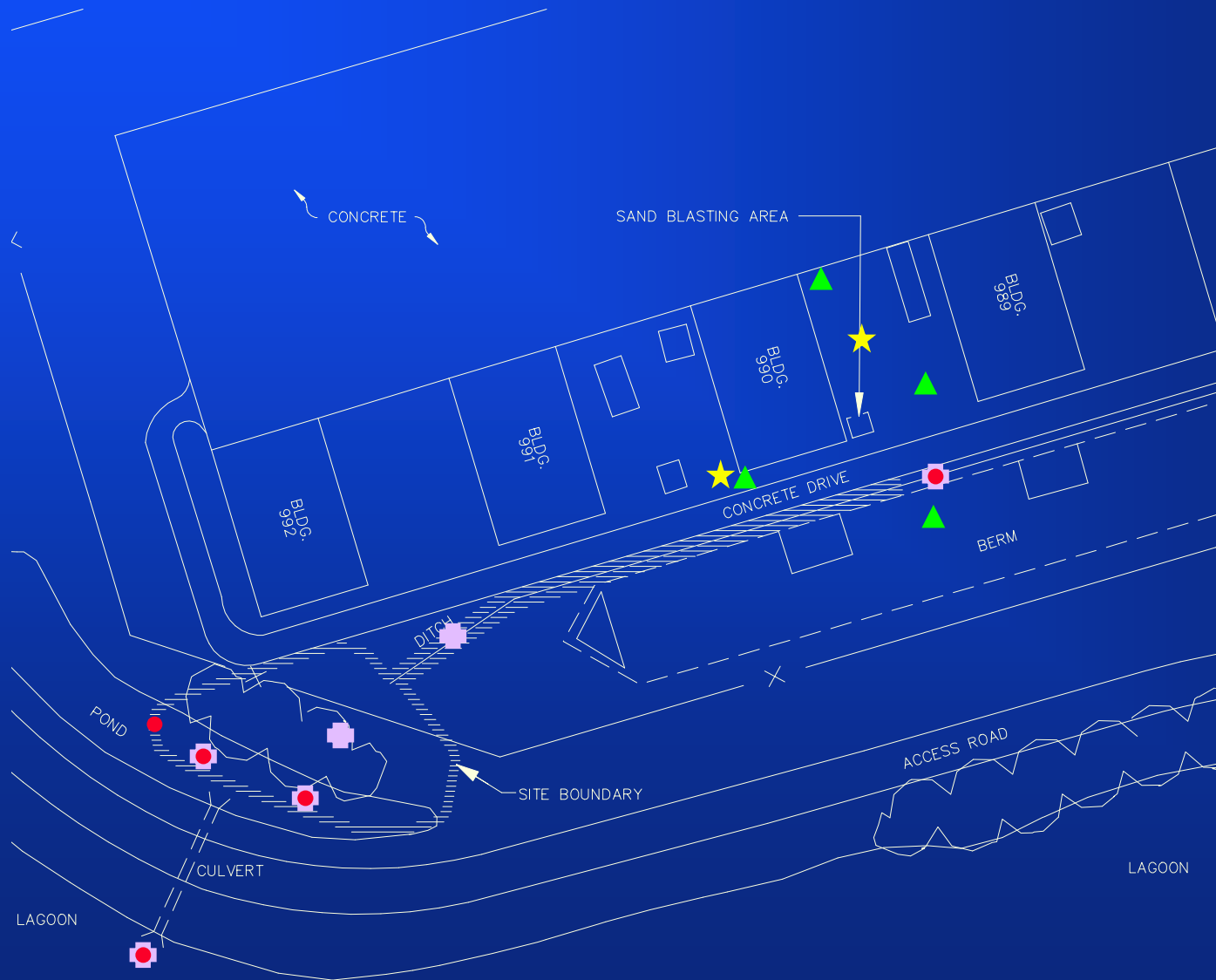
SWMU 5





SWMU 5

Sample Locations



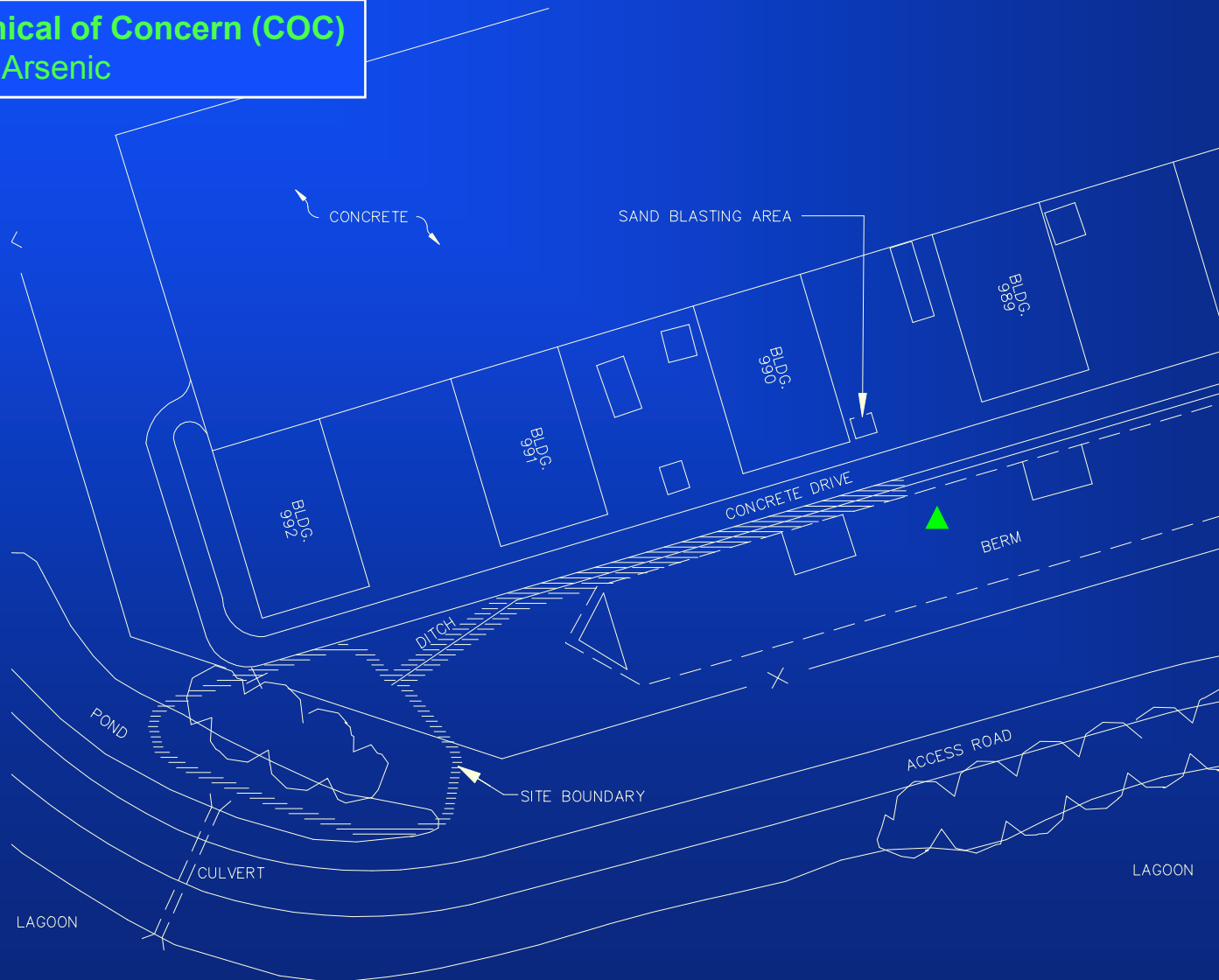
LEGEND	
	Soil
	Sediment
	Surface Water
	Groundwater



SWMU 5

COC Location Map

Chemical of Concern (COC)
Arsenic



LEGEND

▲ Soil



SWMU 5 Berm





Summary of Evaluated Remedies

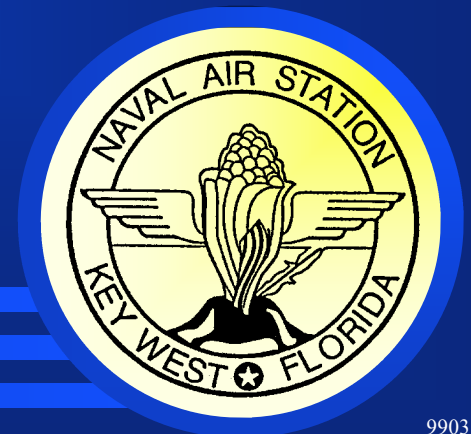
- **No Action**
- **Limited Action: land use controls and long-term monitoring**
- **Remove, treat, and dispose of soil from a hot spot above RGOs and land use controls**





Proposed Remedy for SWMU 5

- **Limited Action: land use controls and long-term monitoring**
 - Human health COCs are in excess of thresholds
 - Potential Ecological risk is low
 - Unrestricted use of the site should not occur





SWMU 7

Boca Chica Building A-824

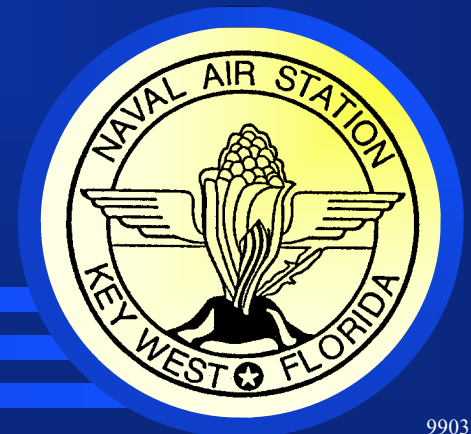
- **Former temporary hazardous waste storage area**
 - **Transformers were stored onsite prior to final disposition**
 - **No recorded releases of contaminants, but transformer oil may have been dumped on ground north of building**
 - **26 cubic yards of soil were excavated in 1995, reducing maximum Aroclor-1260 levels in soil from 30.8 ppm to 16.5 ppm**
- **Building A-824 currently houses a solvent recovery operation and is used for storage of empty drums, old transformers, and other equipment**





Interim Remedial Action - SWMU 7

- Sampling was performed in 1991, 1995, and 1996 during a series of remedial investigations
- IRA was conducted in 1995
 - remove PCB-contaminated soils north of Building A-824
 - prevent further migration of PCBs into other media and biota at the site
- Approximately 26 cubic yards of soil were removed and disposed
- Backfilled with crushed stone to match the existing grade





SWMU 7

Before IRA





SWMU 7

During IRA



**Dust suppression
during loading
activities**

**Loading of the
PCB-contaminated
soils for disposal**





SWMU 7

After IRA





SWMU 7

Sample Locations





SWMU 7

COC Location Map





Small Pond Adjacent to SWMU 7





Summary of Evaluated Remedies

- **No Action**
- **Limited Action:** land use controls and long-term monitoring
- **Remove, treat, and dispose of soil that contains chemical concentrations greater than industrial RGOs; land use controls**








Proposed Remedy for SWMU 7

- **Limited Action: land use controls and long-term monitoring**
 - Human health COCs are in excess of thresholds
 - Potential Ecological risk is low
 - Unrestricted use of the site should not occur





Summary

SWMU	HSWA Permit Modification	LUCs	Monitoring
5			
7	