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JEB FORT STORY, VA
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SITE SAFETY AND HEALTH PLAN (SSHP) FOR 80TH DIVISION RESERVE SITE LIGHTER AMPHIBIOUS RESUPPLY CARGO (LARC) 60 AREA FORT STORY VA

5/4/1994

ENVIRONMENTAL RESTORATION COMPANY

SITE SAFETY AND HEALTH PLAN
(SSHP)

Site Name: 80th Division LARC 60 Area, Building 1032'
Location: Fort Story, Virginia
Plan Prepared By: Jeff Coron/Carla Shackelford Date: 5/4/94
Plan Reviewed By: Andrew Harrison Date: 5/4/94
Approved By: Andrew Harrison Title: Director of Operations

Affiliation: All persons preparing and reviewing this report are employees of Environmental Restoration Company

Version: [X] Original [ ] Revision dated:

Safety and Health Program Certification: This Safety and Health Program meets the requirements of OSHA standard 1910.120 and U.S. Army Corps of Engineers Safety and Health Requirements has been provided for your review.

Signature: Andrew Harrison
Title: Director of Operations
Date: 5-11-94

SITE DESCRIPTION AND CONTAMINATION CHARACTERIZATION:

SITE TYPE (Check as many as applicable):

[X] Active	[ ] Landfill	[ ] Residential	[ ] Recreational
[ ] Inactive	[ ] Industrial	[ ] Agriculture	[ ] Natural Area
[ ] Secure	[ ] Commercial	[X] Military	[ ] Unknown
[ ] Unsecured	[ ] Other (Specify): Construction		

SURROUNDING POPULATION:

[ ] Residential	[ ] Industrial	[ ] Urban
[ ] Rural	[X] Other (Specify): Military Base	

DESCRIPTION OF ON-SITE ACTIVITIES:

[ ] Preliminary Assessment (PA)	[ ] Pre-Design
[ ] Site Inspection (SI)	[ ] Remedial Design (D)
[ ] Remedial Investigation (RI)	[X] Remedial Action (RA)
[ ] Feasibility Study (FS)	[X] Other (Specify):

Installation of 6 groundwater monitoring wells, soil and groundwater sampling

PREVIOUS SAMPLING RESULTS/ANALYSES:

Petroleum hydrocarbons, lead, and other metals contamination is known to be present at the site. Fuel oils, gasoline, and solvents may be present from washing and maintaining craft.

HAZARD ASSESSMENT AND RISK ANALYSIS:

HAZARD EVALUATION: (check all that apply)

[ ] Heat Stress	[ ] Cold Stress	[X] Noise
[ ] Oxygen Deficiency	[ ] Radiological	[ ] Biological
[X] Organic Chemicals	[ ] Inorganic Chemicals	[ ] Excavation
[ ] Explosion/Flammable	[X] Falling Objects	[ ] Electrical
[ ] Confined Spaces	[ ] Dangerous Wildlife	[X] Other (Specify):

Slip, trip, and fall

OVERALL HAZARD EVALUATION:

[ ] High [X] Medium [ ] Low [ ] Unknown

Description: Petroleum hydrocarbon, lead and other metals contamination is known to be present on the site.

Nature of Hazards:

Air: Organic compounds may volatilize during sampling and may be inhaled by investigating personnel.

Soil: Possible contact with skin may lead to absorption and ingestion of contaminants.

Groundwater: Groundwater contact is expected during drilling and sampling events. Contact with skin may lead to absorption and ingestion.

Proper procedures/controls will minimize potential for exposure or ignition.

Source of Information: Montgomery Watson Site Assessment report provided by client.

Completeness of information: Partial - Preliminary soil contaminant data has been provided. This Site, Risk and Remediation Assessment will be performed to determine possible groundwater contamination and characterize the extent of the contamination.

Historical Readings/Results at the Site: Montgomery Watson preliminary soil study has been reviewed.

PROTECTIVE EQUIPMENT IDENTIFICATION (Specify by task; indicate type and/or material, as necessary):

LEVEL: [ ] A [ ] B [ ] C [X] D [X] MODIFIED

USE: [X] PRIMARY [ ] CONTINGENCY

Respiratory Protection: [ ] Not Needed
- [ ] SCBA/ Airline respirator with egress
- [ ] APR
- [ ] Cartridge: _____
- [ ] Escape Mask _____
- [X] Other: OVA or PID air monitoring equipment

Protective Clothing: [ ] Not Needed
- [ ] Encapsulating Suit _____
- [ ] Splash Suit _____
- [ ] Apron _____
- [ ] Tyvek-type Coveralls
- [ ] Saranex-type Coveralls:
- [X] Other: Work Clothes

Head & Eye Protection: [ ] Not Needed
- [ ] Safety Glasses [ ] Face Shield [ ] Goggles
- [X] Hard Hat [ ] Other:

Foot Protection: [ ] Not Needed
- [X] Safety Shoes/Boots
- [ ] Chemical-Resistant Boots:_____
- [ ] Overboots:_____

Hand Protection: [ ] Not Needed
- [x] Undergloves: Latex
- [X] Gloves: Leather
- [ ] Overgloves: _____

Other (Specify below):

If OVA or PID measurements in the breathing zone exceed 5 ppm for more than 5 minutes, work will stop to allow vapors to dissipate.

The immediate area around the drill rig will be roped off to keep unnecessary personnel away from the drill rig and possible hazards.

SAMPLING EQUIPMENT DECONTAMINATION:

Wash soil augers and sampling equipment after each sampling event with deionized water and a biodegradable surfactant.

CONTAINMENT OF DECON WASTES AND DISPOSAL METHOD:

Soil cuttings will be placed into 55 gallon drums and stored on-site on wood pallets pending analysis.

Well water collected during sampling will be placed in a 55 gallon drum and stored on-site on wood pallets pending analysis.

Soil and water will be disposed of as per the contract specifications.

EMERGENCY RESPONSE PLAN: Specify the procedures to be implemented as required by 29 CFR 1910.120(1)(1)(ii)

EMERGENCY RESPONSE PLAN

Emergency phone numbers, route maps, and information will be posted on site. This will include the fire department, ambulance, hospital, and police.

Daily, prior to beginning work a tailgate safety meeting will be conducted and the following site specific issues will be reviewed:

- Individual responsibilities and chain of command (highest ranking able employee directs and commands the response)
- Prevention and recognition of emergencies (any employee may stop work or sound alarm if an emergency is recognized)
- Evacuation routes safe distances and places of refuge(proceed to nearest access point, typically up wind)

MEDICAL EMERGENCIES

Medical emergencies take priority over all other procedures. Action to be taken will be as follows:

- Sound the alarm by hand-held radio or most expedient means possible.

- The on-site first-aiders shall assist the victim as necessary.
    - If victim can be safely moved, remove the person from any hazardous area. Perform emergency decon if necessary. Remove personal protective equipment if possible. Cut off protective clothing, if necessary.
- If victim cannot be safely moved or if on-site personnel doubt that the victim can be safely moved, the following actions will be taken:
    - Contact local emergency services
    - Identify location
    - Relay victim's name and type of injury: e.g. back injury, broken arm, unconsciousness, bleeding
    - ERC personnel will stand by at the site to direct and assist the rescue team to the injured person

FIRE EMERGENCY

ERC personnel are not trained professional fire fighters. If there is any doubt that a fire cannot be quickly extinguished, ERC will exit the area and sound the alarm. Note that protective clothing worn to prevent chemical contact is totally inappropriate for fire fighting.

EMERGENCY TELEPHONE NUMBERS

The following telephone numbers will be posted near each telephone and on the job site bulletin board:

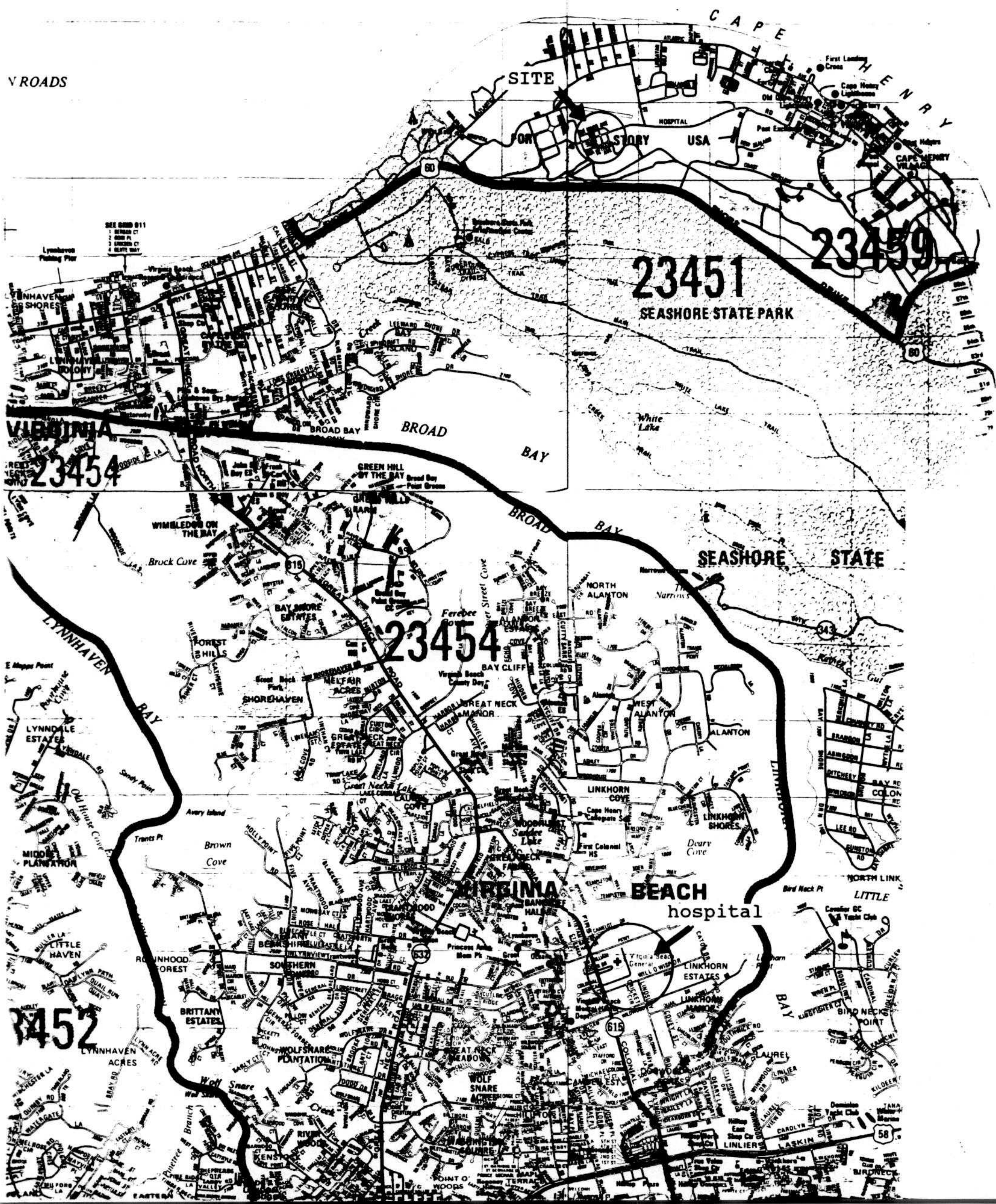
Fort Story Fire Dept. (Ambulance, Fire)	16, 17 or 422-7141
Off Post	
Ambulance	911
Fire	911
Hospital	Virginia Beach General Hospital (804)481-8000 (information)
Police	911
Poison Control	(804)489-5288
US Coast Guard	(804)484-4192

DIRECTIONS TO HOSPITAL: Exit Fort Story heading west on Shore Drive (Route 60). Proceed to Great Neck Road and turn left. Proceed to First Colonial Drive and turn left. Total travel time is 10 to 15 minutes.

EMERGENCY MAP

A map with detailed direction to the nearest medical facility is attached.

V ROADS


CAPE HENRY
SITE
FORT STORY USA
HOSPITAL
CAPE HENRY VILLAGE
23459
23451
SEASHORE STATE PARK
60
BROAD BAY
VIRGINIA BEACH
23454
GREEN HILL BY THE BAY
WIMBLEDON ON THE BAY
Brock Cove
BAY SHORE ESTATES
FOREST HILLS
SHOREHAVEN
NORTH ALANTON
BAY CLIFF
WEST ALANTON
ALANTON
SEASHORE STATE
The Narrows
343
LYNNHAVEN BAY
LYNNDALE ESTATES
Old House Cove
Avery Island
Brown Cove
GREAT NECK MANOR
LINKHORN COVE
LINKHORN SHORES
Cape Henry Collegiate Sch
First Colonial HS
Deary Cove
NORTH LINKHORN
LITTLE
Bird Neck Pt
VIRGINIA BEACH
hospital
LINKHORN ESTATES
LINKHORN BAY
BIRD NECK POINT
LITTLE HAVEN
ROBINHOOD FOREST
BRITTANY ESTATES
23452
LYNNHAVEN ACRES
WOLFSNARE PLANTATION
WOLF SNARE ACRES
Wolf Snare Creek
615
632
58
LASKIN RD
LINLIER

SPILL RESPONSE

Upon the event of a potentially hazardous materials spill, the Site Safety Office shall act as the Spill Response Coordinator until the Fire Department arrives on-site. The following spill response activities will be followed:

- Provide first-aid to all persons requiring attention
- Remove all possible sources of ignition. Shut off motors, engines
- Contact the Fort Story Fire Department (#17)
- Contain spilled material with soil, sand or bentonite
- Block spill from entering surface inlets
- Remove all unnecessary personnel from area

Spill Response equipment required:

- Fire extinguisher
- Shovel
- Sand (on-site), bentonite

Spill Response Reporting Information required:

- Site address
- Date, time, and type of incident
- Name and quantities of materials involved
- Extent of injuries, if any
- Assessment of actual or potential hazards to human health and the environment
- Estimate quantities and disposition of recovered materials