

SITE SAFETY AND HEALTH PLAN (SSHP)

Abbreviated Form for Nonintrusive Preliminary On-site Activities

Site Name: TOWN OF TONAWANDA LANDFILL / MUDFLATS

Location: OFF TWO MILE CREEK ROAD

TONAWANDA, NY (SEE ATTACHED MAP)

Prepared by: [REDACTED]

Affiliation: SAIC

Address: 101 EAST GROVE STREET

MIDDLEBORO, MA 02346

Phone: (508) 946-3500

Version: Original Revision (Number _____)
Original dated _____

Signature: [REDACTED] Date: 3/16/00

Reviewed by: [REDACTED] [REDACTED] Date: 3/16/2000

Title/Affiliation: H&S Mgr - SAIC

Reviewed by: _____ Date: _____

Title/Affiliation: _____

HAZARD ASSESSMENT AND RISK ANALYSIS

PHYSICAL HAZARDS:

1. Physical hazards can be just as disabling as chemical hazards and should be avoided by the site investigator. Examples of physical hazards include:
 - a. Structural hazards (i.e., sagging roof or floor; broken or missing stairs, railings, floor boards, leaning or deteriorated load-bearing walls and support beams).
 - b. Falling hazards (open pits, manholes, silos, wells, shafts, rocks, steep inclines, or wet surfaces).
 - c. Climbing hazards (falls from any climbable structure greater than 10 feet in height; deteriorated ladders or missing rungs).
 - d. Drowning hazards may not always involve water. Examples include tanks, vats of chemicals, oils, or fuels. Standing water can be present in pits, lagoons, ponds, basins, open tanks, silos, septic tanks, sewers, and reservoirs.
 - e. Eye hazards include thicket branches, airborne dusts generated by windy conditions, splashes of contaminated water.
 - f. Debris hazards include exposed nails, broken timbers, sharp metal, broken glass.
 - g. Biological hazards include poisonous snakes, insects, and plants.
2. The site investigator shall not enter any confined space during the on-site reconnaissance survey. Confined spaces may not always be recognized as such, therefore, **when in doubt, stay out.** Examples of some confined spaces include the following:
 - a. Excavations.
 - b. Trenches.
 - c. Surface/underground utility vaults.
 - d. Vats/silos/grain bins.
 - e. Open surface tanks/cisterns/septic tanks.
 - f. Building cellars/crawl spaces.
 - g. Tunnels.
 - h. Wells.
 - i. Boilers.
 - j. Underground/aboveground storage tanks.

CHEMICAL HAZARDS – CONTAMINANTS OF CONCERN:

PREVIOUS SAMPLING RESULTS/ANALYSES:

(Summary of contaminants known to be present on site determined by preliminary assessment records search)

Chemical Name	Concentration Range	Media	Quantity Expected	Location
RADIUM – 226	(0.32 – 2000 pCi/g)*	Soil	N/A - Subsurface	North-center of Landfill, Mudflats
THORIUM – 230	(0.65 – 430 pCi/g)*	Soil	N/A - Subsurface	North-center of Landfill, Mudflats
URANIUM – 238	(0.88 – 1800 pCi/g)*	Soil	N/A - Subsurface	North-center of Landfill, Mudflats
AMERICIUM-241	(0 – 750 pCi/g)	Soil	N/A - Subsurface	NE Corner of Landfill

* lower concentrations found in mudflats area

CHEMICALS EXPECTED:

During a non-intrusive preliminary hazardous waste site survey, encounters with hazardous chemicals in such concentrations and conditions which would constitute an overexposure or an IDLH environment (confined space is **NOT** to be entered) are not expected.

Chemical Contaminant/Quantities Expected

N/A

OSHA PEL/ACGIH TLV

IDLH

Odor Threshold/Warning Level

Warning signs/symptoms of overexposure

PPE Contingency

Chemical Contaminant/Quantities Expected

N/A

OSHA PEL/ACGIH TLV

IDLH

Odor Threshold/Warning Level

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Chemical Contaminant/Quantities Expected

N/A

OSHA PEL/ACGIH TLV

IDLH

Odor Threshold/Warning Level

Warning signs/symptoms of overexposure

PPE Contingency

HAZARD EVALUATION: (Check all that apply)

- Confined Space
- Oxygen Deficiency
- Falling Hazards
- Water Hazards
- Excavations

- Explosive/Flammable
- Chemicals
- Climbing Hazards
- Biological
- Heat/Cold Stress

- Structural
- Electrical
- Debris
- Wildlife
- Dust/Soil

OVERALL HAZARD EVALUATION:

- High
- Medium
- Low
- Unknown

HAZARDS OF GREATEST CONCERN: (List and summarize below)

EXPOSED LANDFILL DEBRIS

TRIP AND FALL

PERSONAL PROTECTIVE EQUIPMENT (PPE)

For non-intrusive preliminary on-site activities, only Level D protective equipment is required (including steel-toed safety shoes, safety glasses, and hard hat). If any indication of hazardous conditions is detected, the Site Investigator In Charge shall stop the tasks being performed, evacuate the site area, and notify the Manager In Charge. Following a discussion and concurrence with safety and health professionals, contingencies for more protective levels such as Modified Level D or Level C can be implemented and shall be made a part of this SSHP. Any changes to the SSHP should be approved by the district Safety and Occupational Health Office's industrial hygienist and/or safety specialist.

LEVELS OF PROTECTION:

Level D: A work uniform affording minimal protection, used for nuisance contamination only. The following constitute Level D equipment; it may be used as appropriate.

Coveralls
Gloves (optional)
Boots/shoes, chemical-resistant steel toe and shank
Boots, outer, chemical-resistant (optional)
Safety glasses or chemical splash goggles
Hard hat
Escape masks (optional)
Face shield (optional)

Modified Level D: Same as Level D except that chemical-resistant clothing (chemical-resistant coveralls/splash suits; hoods; disposable chemical-resistant coveralls) and inner and outer chemical-resistant gloves are worn in place of or in addition to the standard coveralls.

Level C: Same as Modified Level D except that full-face or half-mask (as appropriate), air-purifying respirators (NIOSH approved) are also required to be worn.

PPE REQUIREMENTS BY INVESTIGATION TASKS:

TASK #: SITE VIEW / WALK OVER

LEVEL OF PROTECTION:

PRIMARY: D Modified Level D C
CONTINGENCY: D Modified Level D C

NOTES: NONE - ANY INDICATION OF UNEXPECTED HAZARD CONDITIONS WILL
RESULT IN SITE EVACUATION

TASK #: N/A

LEVEL OF PROTECTION:

PRIMARY: D Modified Level D C
CONTINGENCY: D Modified Level D C
NOTES: _____

TASK #:

LEVEL OF PROTECTION:

PRIMARY: D Modified Level D C
CONTINGENCY: D Modified Level D C
NOTES: _____

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LEVEL OF PROTECTION:

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CONTINGENCY: D Modified Level D C
NOTES: _____

MEDICAL SURVEILLANCE

The Manager In Charge shall ensure and the Site Safety and Health Officer shall verify that all on-site personnel have completed any medical exams that may be required to participate in the on-site survey, or that may be required to wear appropriate personal protective equipment which is to be taken to the site either for use or as part of a contingency plan.

Employee	Examination Type	Exam Date
N/A		

EXPOSURE MONITORING EQUIPMENT AND PROCEDURES

For non-intrusive preliminary on-site activities, monitoring equipment is not required. If any indication of unsafe conditions is detected concerning potential overexposures to chemical contaminants, the Site Investigator In Charge shall stop the tasks being performed, evacuate the site, and notify the Manager In Charge. Following a discussion and concurrence with safety and health professionals, contingencies for appropriate monitoring for toxic and hazardous atmospheres can be implemented and shall be appended to the SSHP. Any changes to the SSHP should be approved by the district Safety and Occupational Health Office's industrial hygienist and/or safety specialist.

HEAT AND COLD STRESS MONITORING

A determination shall be made by qualified health and safety professionals regarding the applicability of heat and cold stress monitoring based on site weather conditions expected at the time work is conducted. Should monitoring be deemed necessary, the monitoring criteria published in Chapter 8 of the NIOSH/OSHA/USCG/EPA "Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities" (NIOSH publication number 85-115, October 1985) shall be followed.

STANDARD OPERATING SAFETY PROCEDURES, ENGINEERING CONTROLS, AND WORK PRACTICES

1. Briefly describe each element not elsewhere addressed in this plan which is applicable to this site. Attach additional pages as necessary to describe site-specific procedures.
2. If possible, the on-site activity should be conducted with not less than two persons (EPA buddy system), the site investigator and another trained person who is in an area free of hazardous conditions but who maintains constant communication and line of sight with the on-site investigator. The site investigator shall exercise good judgement and common sense. In general, if a hazard is recognized, it should be avoided and documented. The site investigator shall not investigate hazards during the initial on-site survey, but merely note their presence. The prime objective of the initial survey is to determine the need for additional surveys and studies.
3. Hazard and contamination avoidance shall be practiced by the on-site investigator. Telltale hazard indicators found on potential HTRW sites can include:
 - a. Evidence of fish, animal, or plant kills.
 - b. Visible emission of dusts, mists, smoke, fog.
 - c. Pools of liquid chemical waste or sludge.
 - d. Discolored, oil-stained soil or water.
 - e. Unusual odors from soil or water.
 - f. Abnormal mounds or depressions in the ground surface.
 - g. Chemical containers.
 - h. Exposed tanks or drums.

SITE RULES AND PROHIBITIONS: At any sign of hazardous (unexpected) condition, stop tasks being performed, evacuate the site area, and contact the Manager In Charge.

1. Material handling procedures: DO NOT HANDLE
2. Drum handling procedures: DO NOT HANDLE
3. Confined space entry: DO NOT ENTER
4. Ignition source and electrical protection: NO SMOKING
5. Excavation safety: DO NOT ENTER TRENCHES/EXCAVATIONS
6. Illumination: DAYLIGHT HOURS ONLY
7. Sanitation: USE OFF-SITE FACILITIES
8. Engineering controls: N/A
9. Buddy System: USE
10. Other: (Note any special procedures to be used in identifying chemical containers or other items of concern, i.e., do not physically handle, etc. Specify here also any site-specific considerations not previously mentioned.)

DECONTAMINATION PROCEDURES

For non-intrusive preliminary on-site activities, decontamination procedures are not anticipated. If any contingency PPE is worn which may require decontamination and/or disposal (such as disposable coveralls, disposable boot covers, respirator cleaning, etc.), the Site Investigator In Charge or the Site Safety and Health Officer shall make the necessary prearrangements. As a precaution regarding shoes/boots, the Site Investigator In Charge shall direct on-site personnel not to walk on surfaces that have obvious contamination. If any indication of unsafe conditions is detected, the Site Investigator In Charge shall stop the tasks being performed, evacuate the site area, and notify the Manager In Charge.

EMERGENCY RESPONSE PLAN

If emergency situations, injuries/illnesses, or unanticipated hazardous conditions are encountered, personnel will immediately stop work, evacuate the site, and contact the Manager In Charge.

ON-SITE FIRST AID AND EMERGENCY EQUIPMENT: A suitable first aid kit shall be available at all times. List contents, as required for anticipated site safety and health hazards.

EMERGENCY CONTACTS:

All emergency phone numbers that are relevant to this site shall be listed below so that in the event of an emergency, the appropriate responders will be contacted. Personnel shall stay alert to dangers at all times. If unanticipated or unexpected hazardous conditions are encountered, personnel will immediately stop work, evacuate the site, and contact the Manager In Charge.

SAIC Health & Safety Manager, Steve Davis	<u>(865) 481-4755</u>
USACE IH, Anthony Cappella	<u>(716) 879-4173</u>
USACE Project Manager, Ray Pilon	<u>(716) 879-4146</u>
USACE Project Engineer, Stephen Buechi	<u>(716) 879-4287</u>
Manager In Charge, Frank Stevenson	<u>(508) 946-3500</u>
Fire	<u>911</u>
Police	<u>911</u>
Hospital	<u>(716) 447-6100</u>
Ambulance	<u>911</u>
Poison Control Center	<u>(800) 682-9211</u>

HOSPITAL INFORMATION:

Name: KENMORE MERCY HOSPITAL

Telephone number: (716) 447-6100

Address: 2950 ELMWOOD AVENUE

Distance to hospital: 1- 2 MILES

Route to Hospital: (NOTE ROUTE ON AN AREA MAP AND ATTACH TO SSHP.)

LOGS, REPORTS AND RECORD KEEPING

The logs and reports developed as a result of the preliminary assessment research for this survey, the historical data, all records, standard operating procedures, and this SSHP shall be maintained, as appropriate, by the Manager In Charge.

Current Map

