



SEPTEMBER 1982

**INITIAL ASSESSMENT STUDY
OF NAVAL ORDNANCE STATION,
INDIAN HEAD, MARYLAND**

VOLUME II - APPENDICES A-G

NEESA 13-021



**NAVAL ENERGY AND ENVIRONMENTAL
SUPPORT ACTIVITY**

Port Hueneme, California 93043

NOT FOR PUBLIC RELEASE

APPENDIX A

Confirmation Study Ranking System

CONFIRMATION STUDY RANKING SYSTEMBackground

With the passage of "Superfund," or CERCLA, in December 1980, the need for a systematic approach toward the cleanup of old hazardous waste disposal sites became apparent. The Department of Defense (DOD), anticipating "Superfund," established the Installation Restoration (IR) program. The Navy's part of this program is the Navy Assessment and Control of Installation Pollutants (NACIP) program.

The NACIP program consists of three phases: (1) Initial Assessment Study (IAS), (2) Confirmation, and (3) Corrective Measures. One of the most important steps in the program is the decision to go from the IAS, based on record searches, interviews, and minimal sampling, to the Confirmation Study, which involves extensive sampling. Another aspect of proceeding to Confirmation from the IAS is the IR program requirement to "develop and maintain a priority listing of contaminated installations and facilities for remedial action" (DEQPPM 81-5, 11 December 1981). As a result, a two-step decision process has been designed specifically for the NACIP program.

Description

The first step is a "yes-no" flowchart (Figure 1) based on easily determined facts found during the IAS. These facts include type of waste, type of containment (spills, ponds, dumps, barrels, etc.), and hydrogeology. The flowchart tells whether to go to the Confirmation phase; to consider immediate mitigating action, such as restricting access to the site; or to do nothing if the site is basically innocuous. If the flowchart indicates that the Confirmation phase should be implemented, the user proceeds to step two.

In step two, the site is given a numerical ranking by going through the Confirmation Study Rating (CSR) Model (Figure 2 and Table 1). Ranking is also based on information obtained during the IAS and is the "priority listing" of sites. The model is based on the system used by the Air Force, which in turn is based on a model developed for EPA by JRB Associates.

As with these previous models, the CSR Model assesses the different characteristics of each hazardous waste site including areas of potential impact or possible receptors of contamination, pathways that the contamination may take to reach the receptors, and waste characteristics and containment. Each of these categories contains several weighted rating factors. The factors are used to calculate a category subscore. These category subscores are then used to calculate the overall hazard rating.

The receptors rating is based on the JRB Model and is calculated by scoring each factor, multiplying by a weighting constant, and adding the weighted scores to obtain a total score for the receptors category.

The pathways rating is taken from the Air Force Hazard Assessment Rating Methodology (HARM) model. This rating is based on direct evidence of contamination migration, or on one of three pathways with the highest contamination migration potential. If direct evidence of contamination exists, the pathways category is given a subscore of 1. If no evidence is found, the highest score from three possible pathways is used. The pathways are surface water, migration, flooding, and ground water migration.

The waste characteristics category is similar in format to the receptors category. The waste characteristics rating is obtained by scoring each factor, multiplying by a weighting constant, then adding or multiplying these weighted factors as indicated to obtain a total score for the category.

The CSR Model differs from the other two models mentioned due to differences in the Waste Characteristics section, and minor changes in the other sections. The major difference, however, lies in the final scoring of the sites. These previous models have based their rankings on the idea that factors, such as pathways of possible migration, location of receptors, and waste characteristics are additive as indicated by the formula:

$$U_{\text{site}} = \sum_{i=1}^n [k_i U_i(x_i)]$$

$$= U_p + U_r + U_w$$

U_i = the Rating factor (1.0 is the worst, 0.0 is the best condition)

U_p = the total Pathways factor

U_r = the total Receptors factor

U_w = the total Waste Characteristics factor

k = weighing constant = 1 in this instance

U_{site} = the final score or rating of the site

This additive model is only theoretically correct if the factors considered (Pathways, Receptors, and Waste Characteristics) are completely independent of one another. However, these factors are not independent of each other. For example, an innocuous waste such as paper (low U_w) may be found in an area that has a hydrogeology conducive to migration (high U_p) and be close to a large population (high U_r). If this site somehow slips into the above rating model, it will have a high priority due to the U_p and U_r .

The CSR Model uses instead a multiplicative approach as indicated by the formula:

$$U_{\text{site}} = \frac{1}{K} \left[\prod_{i=1}^n (K k_i (1 - U_i) + 1) - 1 \right]$$

$$= (U_r)(U_p)(U_w)$$

This formula reflects the dependent nature of the factors involved. These formulas have been included to show the mathematical approach to the rating problem. The multiplicative approach is rescaled from 0 to 100 and used in the CSR Model as:

$$U_{\text{site}} = 100 (U_r)(U_p)(U_w)$$

By using the multiplicative model, sites with a low Ur, Up, or Uw, such as the site previously mentioned, will have a lower rating than would be expected using an additive model, such as the JRB Model.

Use of the System

All sites found will be put through the Confirmation Study Ranking Flowchart (figure 1). This flowchart will tell the user to go to the CSR Model if further study is required.

The CSR Model is found in figure 2 and table 1. Figure 2 contains the worksheets for the model and is divided into subsections on the rating categories: I is Receptors, II is Pathways, III is Waste Characteristics, and IV is Waste Management and Final Score. Table 1 contains the data needed or information required to fill out the worksheets in figure 2 and is divided into the same subsections.

Appendix A illustrates the use of the CSR Model by showing the results of two sites.

The Confirmation Study Ranking System was designed to be used after no or limited sampling. The existing EPA models, including the Mitre and the JRB Models, were designed to rank sites after a NACIP confirmation type investigation. Because the purpose of the System is to rank sites before a full field investigation of sampling is done, this model differs from the models EPA has used. Ranking sites before the expensive Phase II is done will enable the Navy to investigate as soon as possible those sites that pose the greatest potential hazard.

References

References used in the development of the Confirmation Study Rating Model include:

Chang, S., Barrett, K., Hans, S., Platt, A., The Mitre Corporation Site Ranking System for Determining Remedial Action Priorities Among Uncontrolled Hazardous Substances Facilities, June 12, 1981.

Collins, J. P., and Glysson, E. A., "Multiattribute Utility Theory and Environmental Decisions," Journal of the Environmental Engineering Division, A.S.C.E., vol. 106, No. EE 4, Proc. Paper 15648, Aug. 1980, pp. 815-830.

JRB Associates, Inc., Methodology for Rating the Hazard Potential for Waste Disposal Sites, May 5, 1980.

Lindenberg, B., et al., Air Force Hazardous Assessment Rating Methodology (HARM) Model, Jan. 1982.

National Fire Protection Association, Fire Protection Guide on Hazardous Materials, seventh edition, 1979.

Sax, N. Irving, Dangerous Properties of Industrial Materials, fourth edition, 1975.

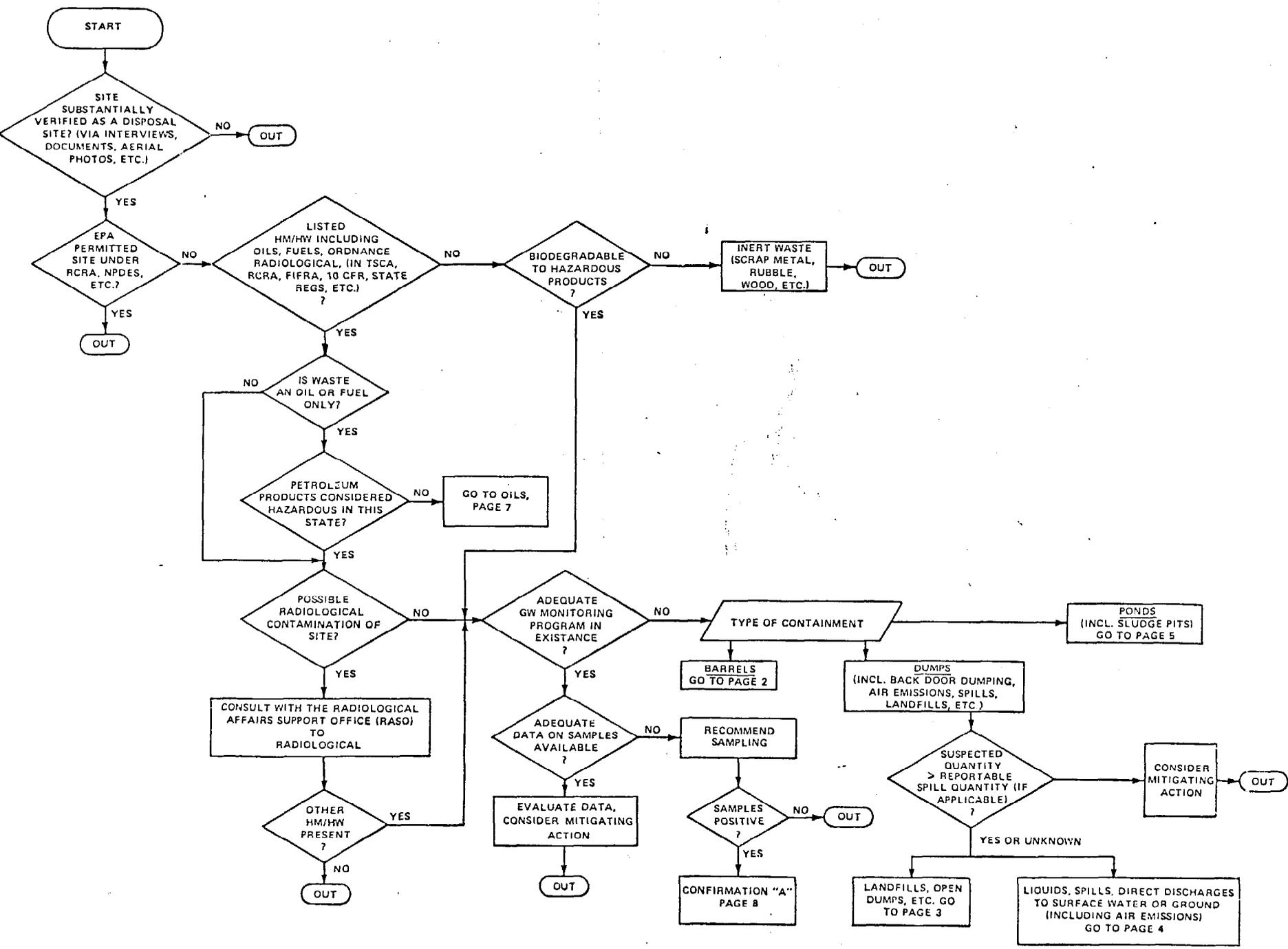


FIGURE 1. CONFIRMATION STUDY RANKING FLOWCHART

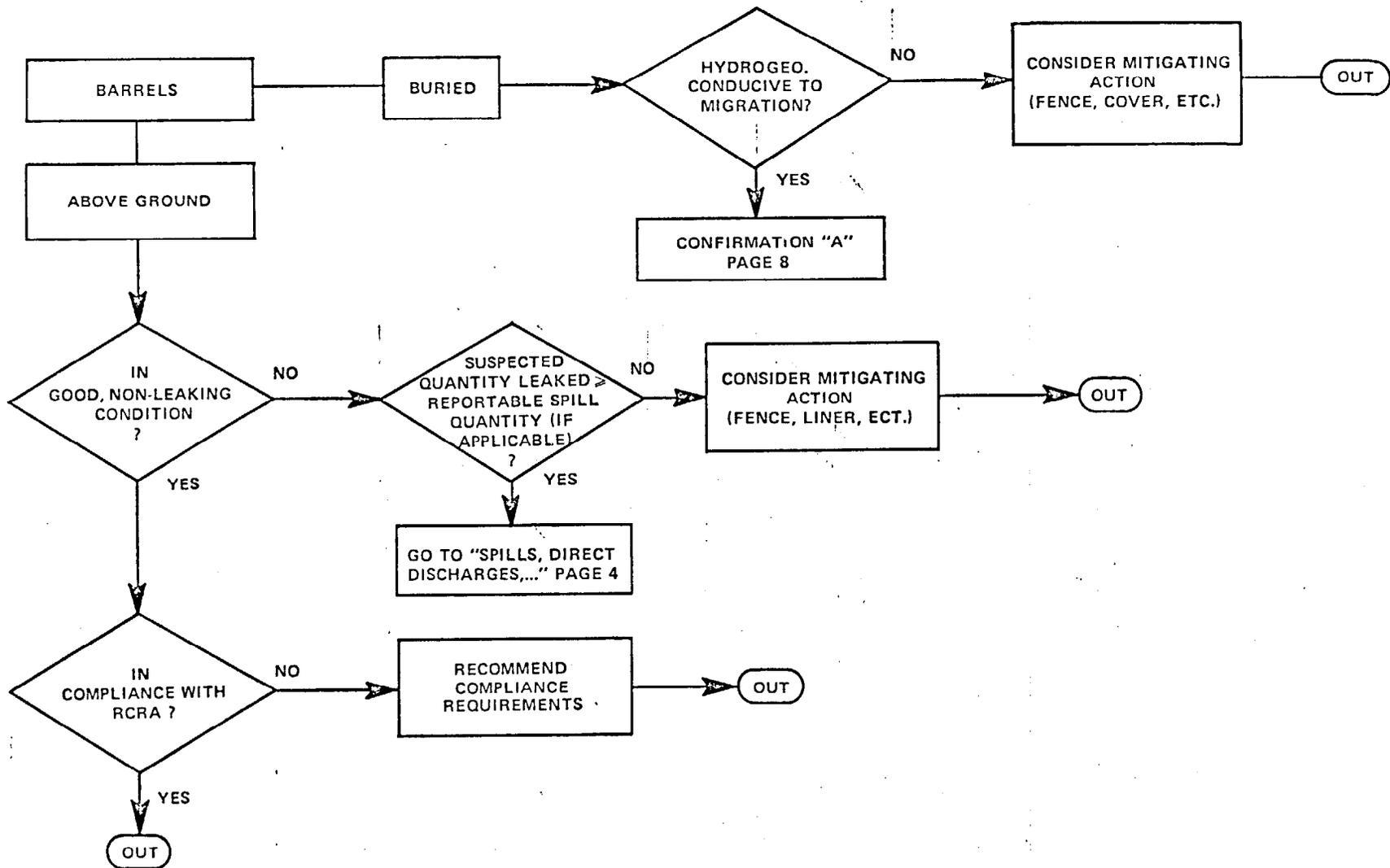


FIGURE 1. CONFIRMATION STUDY RANKING FLOWCHART (CONTINUED)

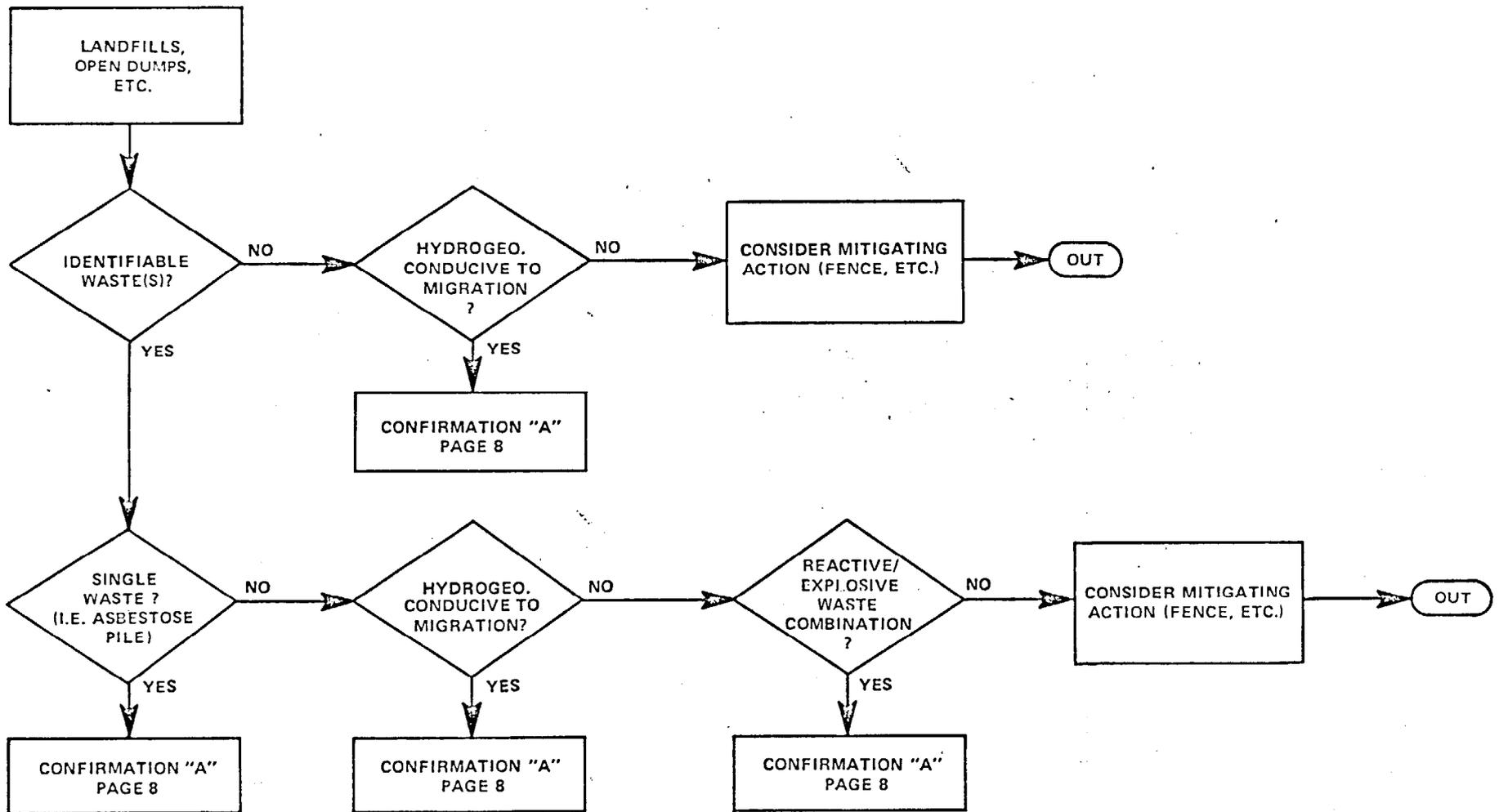


FIGURE 1. CONFIRMATION STUDY RANKING FLOWCHART (CONTINUED)

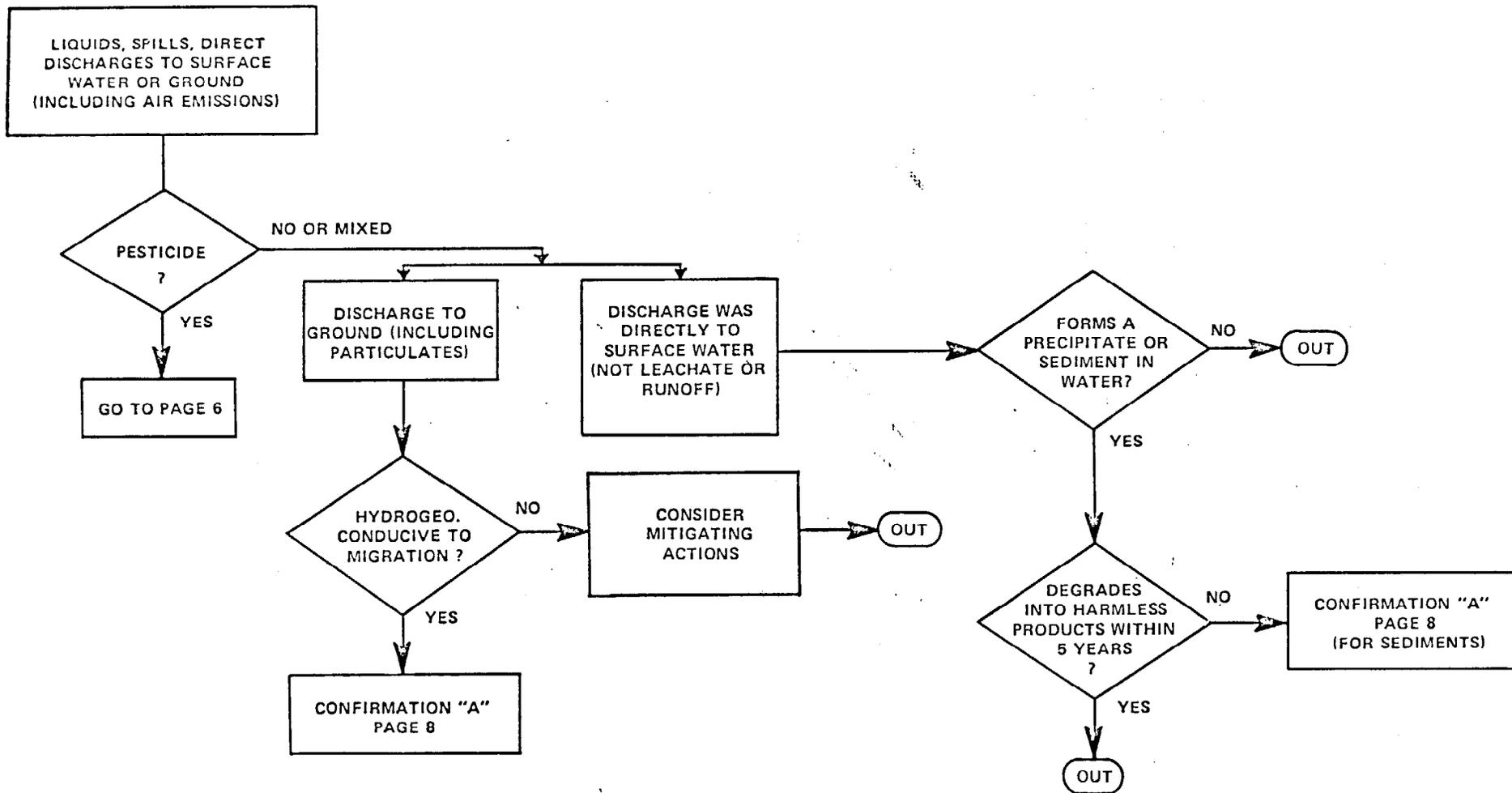


FIGURE 1. CONFIRMATION STUDY RANKING FLOWCHART (CONTINUED)

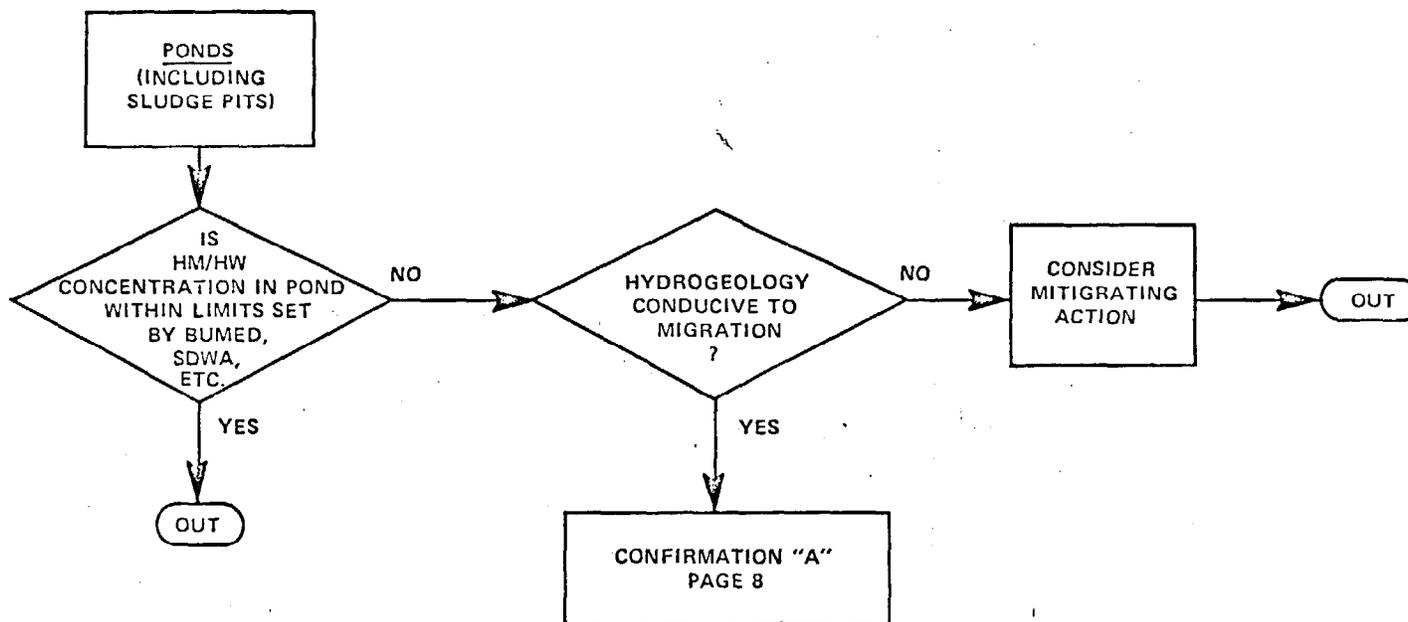


FIGURE 1. CONFIRMATION STUDY RANKING FLOWCHART (CONTINUED)

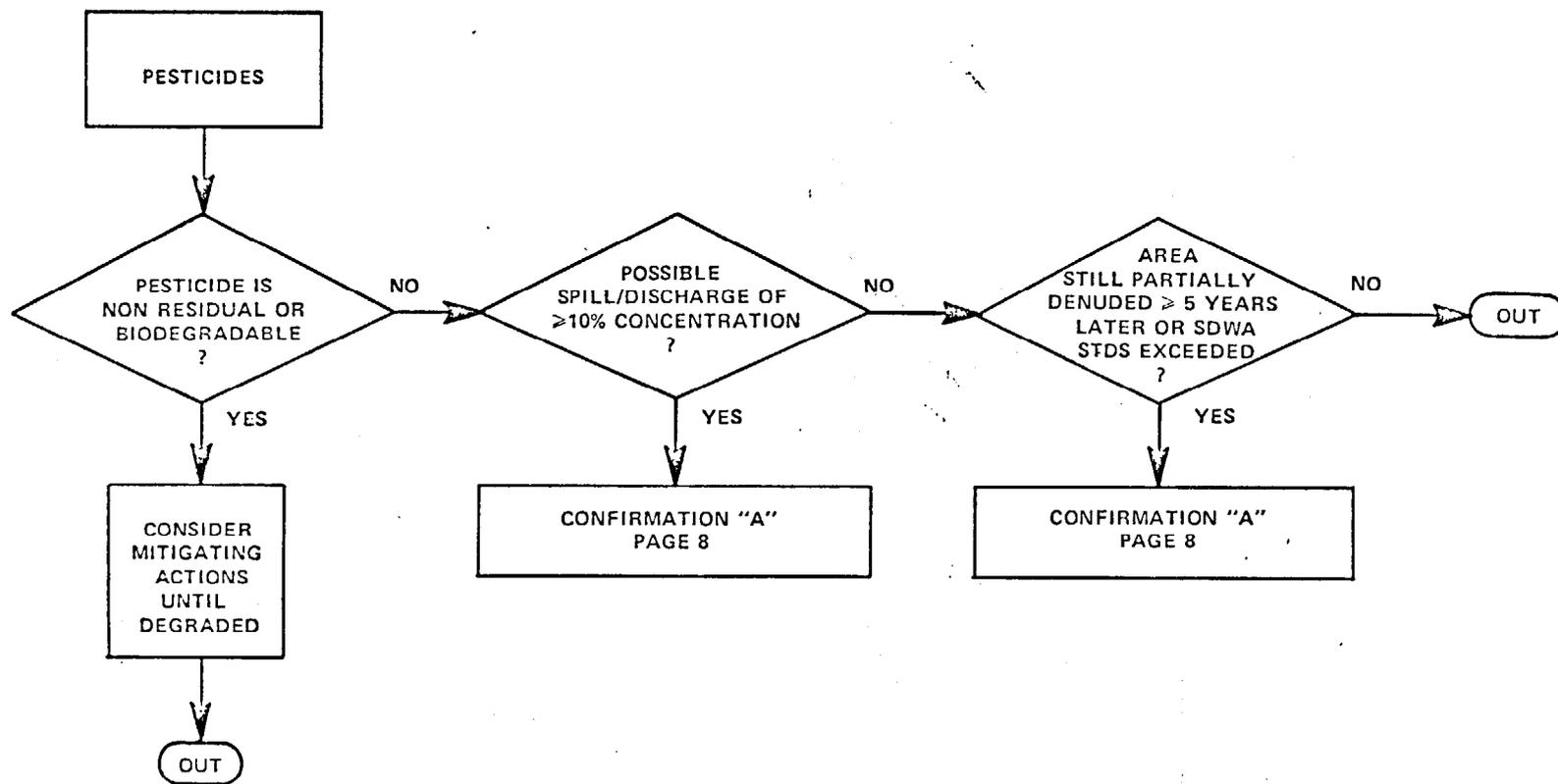


FIGURE 1. CONFIRMATION STUDY RANKING FLOWCHART (CONTINUED)

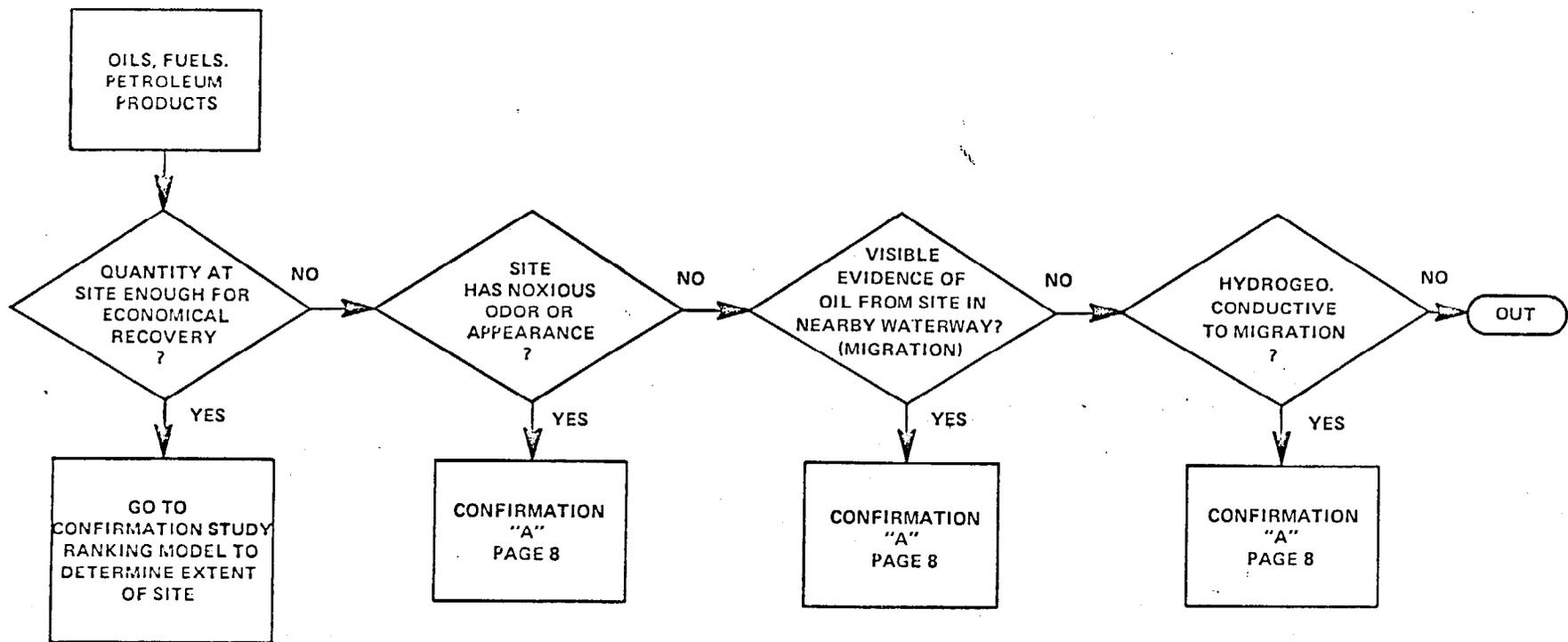


FIGURE 1. CONFIRMATION STUDY RANKING FLOWCHART (CONTINUED)

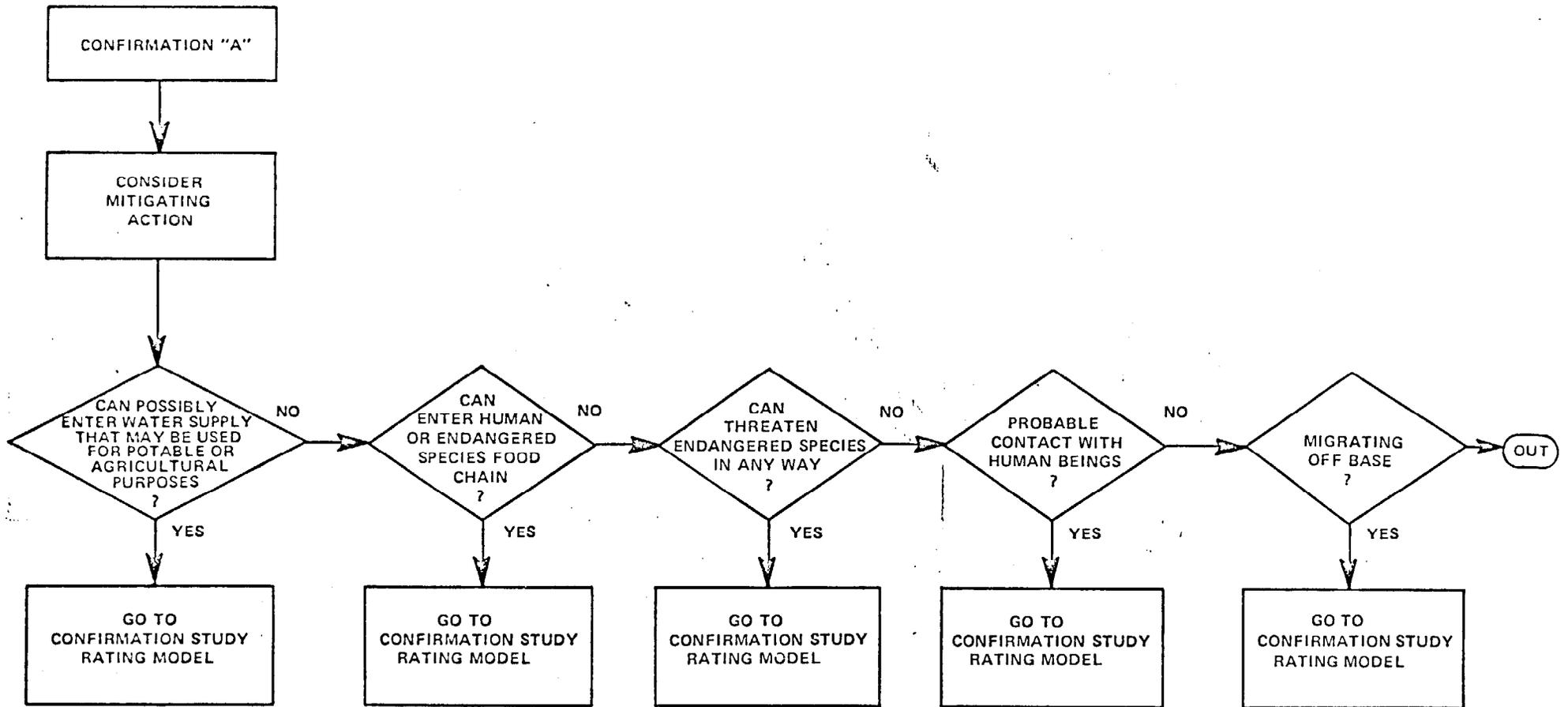


FIGURE 1. CONFIRMATION STUDY RANKING FLOWCHART (CONTINUED)

FIGURE 1 (Continued)

CSR FLOWCHART

Definitions

HM/HW = Hazardous Material/Hazardous Waste

GW = Ground Water

EPA = Environmental Protection Agency

RCRA = Resource Conservation and Recovery Act

NPDES = National Pollutant Discharge Elimination System

TSCA = Toxic Substances Control Act

FIFRA = Federal Insecticide, Fungicide and Rodenticide Act

10 CFR = Federal Regulations covering Radiological Materials

BUMED = Bureau of Medicine

SDWA = Safe Drinking Water Act

Mitigating Action = may include temporary/permanent actions such as fences, barriers, clay caps, changing method of storage (for barrels), etc.

FIGURE 2

NAME OF SITE _____
 LOCATION _____
 DATE OF OPERATION OR OCCURRENCE _____
 OWNER/OPERATOR _____
 COMMENTS/DESCRIPTION _____
 SITE RATED BY _____

I. RECEPTORS (see also table 1-1)

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site		4		12
B. Distance to nearest down gradient well		10		30
C. Land use/zoning within 1 mile radius		3		9
D. Distance to reservation boundary		6		18
E. Critical environments within 1 mile radius of site		10		30
F. Water quality of nearest surface water body		6		18
G. Ground water use of the aquifer of concern		9		27
H. Population served by surface water supply within 3 miles downstream of site		6		18
I. Population served by ground-water supply within 3 miles of site		6		18

Subtotals _____ 180

Receptors subscore = (factor score subtotal/maximum score subtotal) _____

FIGURE 2 (Continued)

II. PATHWAYS (see also table 1-11)

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
---------------	---------------------	------------	--------------	------------------------

A. If there is documented laboratory evidence of migration of hazardous contaminants away from the site in question, assign maximum factor subscore of 1 point for direct evidence. If direct evidence exists then proceed to C. If no evidence exists, proceed to B.

Subscore _____

B. Rate the migration potential for 3 potential pathways: surface water migration, flooding, and ground water migration. Select the highest rating, and proceed to C.

1. Surface water migration

Distance to nearest down gradient surface water		8		24
Net precipitation		6		18
Surface erosion		8		24
Soil permeability		6		18
Rainfall intensity		8		24

Subtotals _____ 108

Subscore = (factor score subtotal/maximum score subtotal) _____

2. Flooding _____

Subscore = (factor score/3) _____

3. Ground water migration

Depth to ground water		8		24
Net precipitation		6		18
Soil permeability		8		24
Subsurface flows		8		24
Direct access to ground water		8		24

Subtotals _____ 114

Subscore = (factor score subtotal/maximum score subtotal) _____

C. Highest pathway subscore.

Enter the highest subscore value from A, B-1, B-2 or B-3 above.

Pathways Subscore _____

FIGURE 2 (Continued)

III. WASTE CHARACTERISTICS (see also table 1-III)

A.

Rating Factor	Factor Rating (0-3)	Multiplier	Weighted Factor
Waste Quantity		1	= Q
Acute Toxicity		8	= AT
Chronic Toxicity		8	= CT
Persistency		6	= P
Flammability		4	= F
Reactivity		4	= R
Incompatibility		5	= I
Corrosiveness		3	= C
Solubility		5	= S
Bioaccumulation		6	= B
Physical State		3	= PS
Years site was in use		1	= t
Years since site closed		1	= t

Weighted Factor = Factor Rating x Multiplier

FIGURE 2 (Continued)

III. WASTE CHARACTERISTICS (continued)

B. Take the weighted factors and multiply together as indicated below, then add the results together, and add PS from figure 2-III A.

	<u>Score</u>	<u>Maximum Score</u>
ATxQ =		72
CTxQ =		72
PxQx t=		162
FxQ =		36
RxQ =		36
IxQ =		45
CxQ =		27
SxQ =		45
Bx(t+t) =		108
PS =		<u>9</u>
Subtotal=		<u>612</u>

Waste Characteristics Subscore = subtotal/maximum subtotal

= _____

General Note:

If data are not available or are known to be incomplete under items I-A through I, II-B-1 or II-B-3, or III-A, then leave blank for calculation of factor score and maximum subscore (i.e. for calculation of the subscore divide the factor score by the maximum subscore minus the unknown item's maximum score).

FIGURE 2 (Continued)

IV. WASTE MANAGEMENT AND FINAL SCORE (see also table 1-IV)

- A. Receptors Subscore = = U_R
 Pathways Subscore = = U_P
 Waste Characteristics Subscore = = U_W

Enter the above subscores in the equation:

$$\text{Site Subscore} = U_{\text{site}} = 100 (U_R)(U_P)(U_W)$$

$$= \underline{\hspace{2cm}}$$

- B. Apply factor for waste containment from waste management (table 1-IV)

Site Subscore x Waste Management = Final Score

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Note: If Final Scores are tied for sites on one base, rate the sites according to the confidence level of the information.

Confirmed Criteria

- At least 2 verbal reports from interviews or written information from records.
- Knowledge of types and quantities of wastes generated by shops and other areas on base.
- Based on the above, a determination of the types and quantities of waste disposed of at the site.

Suspected Criteria

- One or no verbal reports or conflicting verbal reports, and no written information from records.
- Logic based on a knowledge of types and quantities of wastes generated at the base, and a history of past waste disposal practices indicate that these wastes were disposed of at the site.

Confirmed sites would be above suspected sites in the ranking.

TABLE 1 (Continued)

II. PATHWAYS CATEGORY

A. Evidence of Contamination and Migration

Direct evidence is obtained from laboratory analyses of hazardous contaminants present above natural background levels in surface water, ground water, or air. Evidence should confirm that the source of contamination is the site being evaluated. With the exception of PCBs, the samples should have been taken off site but near the site. Because PCBs migrate very little, if contamination is found at a PCB site, that site shall be given the maximum score.

B-1 POTENTIAL FOR SURFACE WATER MIGRATION

Rating Factor	Rating Scale Levels				Multiplier
	0	1	2	3	
Distance to nearest surface water (includes drainage ditches and storm sewers)	Greater than 1 mile	2,001 feet to 1 mile	501 feet to 2,000 feet	0 to 500 feet	8
Net precipitation (total precipitation minus evapotranspiration)	Less than -10 in.	-10 to +5 in.	+5 to +20 in.	Greater than +20 inches	6
Surface erosion	None	Slight	Moderate	Severe	8
Soil permeability	0% to 15% clay (>10 ⁻² cm/sec)	15% to 30% clay 10 ⁻² to 10 ⁻⁴ cm/sec)	30% to 50% clay (10 ⁻⁴ to 10 ⁻⁶ cm/sec)	Greater than 50% clay (<10 ⁻⁶ cm/sec)	6
Rainfall intensity based on 1 year 24-hr rainfall (or mean annual number of thunderstorms)	Less than 1.0 inch (0-5)	1.0-2.0 inches (6-35)	2.1-3.0 inches (36-48)	Greater than 3.0 inches (>50)	8

B-2 POTENTIAL FOR FLOODING

Floodplain	Beyond 100-year floodplain	In 100-year floodplain	In 10-year floodplain	Floods annually or site in water	1
------------	----------------------------	------------------------	-----------------------	----------------------------------	---

B-3 POTENTIAL FOR GROUND-WATER CONTAMINATION OF THE AQUIFER OF CONCERN

Depth to ground water	Greater than 500 ft	50 to 500 feet	11 to 50 feet	0 to 10 feet	8
Net precipitation	Less than -10 in.	-10 to +5 in.	+5 to +20 in.	Greater than +20 in.	6
Soil permeability	Greater than 50% clay (>10 ⁻⁶ cm/sec)	30% to 50% clay (10 ⁻⁴ to 10 ⁻⁶ cm/sec)	15% to 30% clay (10 ⁻² to 10 ⁻⁴ cm/sec)	0% to 15% clay (<10 ⁻² cm/sec)	8
Subsurface flows	Bottom of site greater than 5 feet above high ground-water level	Bottom of site < 5 feet above high ground-water level Bottom of site occasionally submerged (1-3 times/year)	Bottom of site frequently submerged (>3 times/year)	Bottom of site submerged.	8
Direct access to ground water (through faults, fractures, faulty well casings, subsidence fissures, etc.)	No evidence of risk	Low risk	Moderate risk	High risk	8

TABLE 1

I. RECEPTORS CATEGORY

Rating Factors	Rating Scale Levels				Multiplier
	0	1	2	3	
A. Population within 1,000 feet (equals working population plus 3 times the residential population)	0	1 - 25	26 - 100	Greater than 100	4
B. Distance to nearest water well	Greater than 3 miles	1 to 3 miles	3,001 feet to 1 mile	0 to 3,000 feet	10
C. Land Use/Zoning (within 1 mile radius)	Completely remote (zoning not applicable)	Government owned, and idle	Commercial, agricultural, industrial, National Register Historic/Landmark sites	Residential	3
D. Distance to installation boundary	Greater than 2 miles	1 to 2 miles	1,001 feet to 1 mile	0 to 1,000 feet	6
E. Critical environments (within 1 mile radius)	Not a critical environment	Natural areas	Pristine natural areas; minor wetlands (<5 acres); preserved areas; presence of economically important natural resources susceptible to contamination; estuarine shores.	Major habitat of an endangered or threatened species; presence of recharge area; major wetlands (>5 acres).	10
F. Water quality/use designation of nearest surface water body	Not used or boating only	Agricultural or industrial use	Recreation, swimming, propagation and management of fish and wildlife	Potable water supplies, shellfish propagation and harvesting	6
G. Ground-water use of the aquifer of concern	Not used, other sources readily available.	Commercial, industrial, or irrigation, very limited other water sources.	Drinking water, municipal water available.	Drinking water, no municipal water available; commercial, industrial, or irrigation, no other water source available.	9
H. Population served by surface water supplies within 3 miles downstream of site	0	1 - 50	51 - 1,000	Greater than 1,000	6
I. Population served by the aquifer of concern supplies within 3 miles of site	0	1 - 50	51 - 1,000	Greater than 1,000	6

TABLE 1 (Continued)

III. WASTE CHARACTERISTICS

Rating Factors	Rating Scale Level				Multiplier
	0	1	2	3	
Waste Quantity (40 CFR 117)	if applicable: < reportable spill quantity or <1 lb.	1-5 times report- able spill quantity	5-20 times reportable spill quantity	>20 times reportable spill quantity	1
Toxicity ¹ Acute & Chronic	Sax's Level 0	Sax's Level 1	Sax's Level 2	Sax's Level 3	8
Persistence	Easily degraded compounds or harmless materials	Straight chain hydrocarbons	Substitute and other ring compounds	Heavy metal compounds, polycyclic compounds, halogenated hydrocarbons, or degradation products are hazardous	6
Flammability ²	NFPA Level 0 or Flash point > 200°F	NFPA Level 1 Flash point 140°F-200°F	NFPA Level 2 Flash point 80°F-140°F	NFPA Level 3 & 4 Flash point < 80°F	4
Reactivity	NFPA Level 0	NFPA Level 1	NFPA Level 2	NFPA Level 3 & 4	4
Incompatible wastes present (40 CFR 265 Appendix V)	No	Unknown	Yes, but adequately separated	Yes, poses a hazard	5
Corrosiveness	pH 6-8	pH 5-6 or 8-10	pH 3-5 or 10-12	pH 1-3 to 12-14	3
Solubility at 20°C	Insoluble or 0 <.1g/100ml water	Insoluble in water, soluble in acids or bases ---	Sparingly or slightly soluble in water .1-.5g/100ml water	Soluble in water >.5g/100ml water	5
Bioaccumulation	No	---	---	Yes	6
Physical State	Solid - consolidated or stabilized	Solid - noncon- solidated or non- stabilized	Sludge, slurry, powder, or fine material	Liquid or air emissions	3
Years site was in use	---	< 5	5-10	> 10	1
Years since site was closed or use was discontinued	> 50	15-50	5-15	0-5	1

Note: For sites with more than one hazardous waste the worst case should be used in scoring this section.

¹ Sax's levels may be found in Dangerous Properties of Industrial Materials, 4 edition by N. Irving Sax.

² NFPA levels may be found in Fire Protection Guide on Hazardous Material, 7 edition by the National Fire Protection Association.

TABLE 1 (Continued)

IV. WASTE MANAGEMENT AND FINAL SCORE

A. This category adjusts the total risk as determined from the receptors, pathways, and waste characteristics categories for waste management practices and engineering controls designed to reduce this risk.

B. WASTE MANAGEMENT PRACTICES FACTOR

The following multipliers are then applied to the total risk points (from A):

<u>Waste Management Practice</u>	<u>Multiplier</u>
No containment	1.0
Limited containment	0.80
Fully contained and in full compliance	0.10

Guidelines for fully contained:

Landfills:

- Clay cap or other impermeable cover
- Leachate collection system
- Liners in good condition
- Adequate monitoring wells

Surface Impoundments:

- Liners in good condition
- Sound dikes and adequate freeboard
- Adequate monitoring wells

Spills:

- Quick spill cleanup action taken
- Contaminated soil removed
- Soil and/or water samples confirm total cleanup of the spill

Fire Protection Training Areas:

- Concrete surface and berms
- Oil/water separator for pretreatment of runoff
- Effluent from oil/water separator to treatment plant

Limited containment of a site would include only some of the above guidelines for fully contained.

APPENDIX B

Confirmation Study Flowchart

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 1
SITE NAME: LARGE MOTOR TEST AREA

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? Y

DO CONTAMINANTS DEGRADE INTO HARMLESS PRODUCTS WITHIN FIVE YEARS? N

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 2
SITE NAME: DRAINAGE DITCH AT MOTOR PREPARATION BUILDING

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? Y

DO CONTAMINANTS DEGRADE INTO HARMLESS PRODUCTS WITHIN FIVE YEARS? N

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 3
SITE NAME: THORIUM SPILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? Y

CONSULT WITH THE RADIOLOGICAL AFFAIRS SUPPORT OFFICE (RASO)

ARE OTHER HAZARDOUS WASTES OR HAZARDOUS MATERIALS PRESENT? N

OUT -- CONSULT WITH RASO

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SITE HAS BEEN CLEANED UP; MITIGATING PROCEDURE WAS RECOMMENDED.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 4
SITE NAME: OIL SPILL AT FUEL OIL STORAGE TANK

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? Y

ARE PETROLEUM PRODUCTS CONSIDERED HAZARDOUS IN THIS STATE? N

IS QUANTITY AT SITE ENOUGH FOR ECONOMICAL RECOVERY? N

DOES SITE HAVE NOXIOUS ODOR OR APPEARANCE? N

IS THERE VISIBLE EVIDENCE OF OIL FROM SITE IN NEARBY WATERWAYS? (MIGRATION) N
IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? N
OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SPILL WAS CLEANED UP; NO VISUAL EVIDENCE OF CONTAMINATION PRESENT.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 5
SITE NAME: WASTE CRANKCASE OIL APPLIED TO TORRENSE ROAD

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? Y

ARE PETROLEUM PRODUCTS CONSIDERED HAZARDOUS IN THIS STATE? N

IS QUANTITY AT SITE ENOUGH FOR ECONOMICAL RECOVERY? N

DOES SITE HAVE NOXIOUS ODOR OR APPEARANCE? N

IS THERE VISIBLE EVIDENCE OF OIL FROM SITE IN NEARBY WATERWAYS? (MIGRATION) N
IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? N
OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO SIGNS OF CONTAMINATION PRESENT AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 6
SITE NAME: CAUSTIC/SODIUM NITRATE SPILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 1

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? N

CONSIDER MITIGATING ACTIONS

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

HYDROLOGY NOT CONDUCIVE TO MIGRATION.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 7
SITE NAME: NITROGLYCERIN EXPLOSION, NITRATION BLDG AREA

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 1

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? N

CONSIDER MITIGATING ACTIONS

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

SITE HYDROGEOLOGY IS NOT CONDUCIVE TO MIGRATION.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 8
SITE NAME: LLOYD ROAD OIL SPILL SITES

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? Y

ARE PETROLEUM PRODUCTS CONSIDERED HAZARDOUS IN THIS STATE? N

IS QUANTITY AT SITE ENOUGH FOR ECONOMICAL RECOVERY? N

DOES SITE HAVE NOXIOUS ODOR OR APPEARANCE? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR
POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

LOW POTENTIAL FOR MIGRATION INTO THE GROUNDWATER.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 8
SITE NAME: LLOYD ROAD OIL SPILL SITES

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? Y

ARE PETROLEUM PRODUCTS CONSIDERED HAZARDOUS IN THIS STATE? N

IS QUANTITY AT SITE ENOUGH FOR ECONOMICAL RECOVERY? N

DOES SITE HAVE NOXIOUS ODOOR OR APPEARANCE? N

IS THERE VISIBLE EVIDENCE OF OIL FROM SITE IN NEARBY WATERWAYS? (MIGRATION) N
IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? N
OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

LOW POTENTIAL FOR MIGRATION INTO THE GROUNDWATER.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 9
SITE NAME: GRAIN MANUFACTURE AND X-RAY BLDG, OPEN DRAIN

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? Y

DO CONTAMINANTS DEGRADE INTO HARMLESS PRODUCTS WITHIN FIVE YEARS? N

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 10
SITE NAME: PYROTECHNICS BURNING POINT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 11
SITE NAME: HYPO SPILL, RADIOGRAPHIC FAC. ACCL. CONTROL BLDG

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? Y

DO CONTAMINANTS DEGRADE INTO HARMLESS PRODUCTS WITHIN FIVE YEARS? N

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 12
SITE NAME: HMX SPILL, SLURRY MIX BLDG.

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 1

IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? N

CONSIDER MITIGATING ACTIONS

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

RECOMMENDED MITIGATING ACTION AROUND BLDG 682.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 13
SITE NAME: DBS SPILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 1

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? N

CONSIDER MITIGATING ACTIONS

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE --- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

DBS IS BIODEGRADABLE; NO SIGNS OF CONTAMINATION OBSERVED AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 17
SITE NAME: OTTO FUEL II SPILL, BIAZZI PLANT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 1

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? N

CONSIDER MITIGATING ACTIONS

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

SITE WAS CLEANED UP AFTER SPILL.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 16
SITE NAME: OTTO FUEL II SPILL, INTER. PRO. BLDG.

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SPILL WAS CLEANED UP

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 14
SITE NAME: MERCURY DEPOSITES IN MANHOLE, BIAZZI PLANT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? Y

DO CONTAMINANTS DEGRADE INTO HARMLESS PRODUCTS WITHIN FIVE YEARS? N

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 15
SITE NAME: PATTERSON AVENUE, OIL SPILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? Y

ARE PETROLEUM PRODUCTS CONSIDERED HAZARDOUS IN THIS STATE? N

IS QUANTITY AT SITE ENOUGH FOR ECONOMICAL RECOVERY? N

DOES SITE HAVE NOXIOUS ODOR OR APPEARANCE? N

IS THERE VISIBLE EVIDENCE OF OIL FROM SITE IN NEARBY WATERWAYS? (MIGRATION) N
IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? N
OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SPILL WAS CLEANED UP; NO VISUAL EVIDENCE OF CONTAMINATION PRESENT.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 18
SITE NAME: PGDN(OTTO FUEL II)SPILL BIAZZI PLANT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING
SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS,
SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL
QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID,
SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR
EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER
NOT LEACHATE OR RUNOFF)? 1

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? N

CONSIDER MITIGATING ACTIONS

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SPILL AREA HAS BEEN CLEANED UP.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 19
SITE NAME: SINGLE BASE PROPELLANT GRAINS SPILL AREA

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

ONLY SMALL AMOUNT OF GRAINS PRESENT AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 20
SITE NAME: SLUMS PITS BURN AREA

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING
SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS,
SPILLS, LANDFILLS, ETC. 1

WHERE ARE BARRELS LOCATED? ENTER 1 FOR ABOVE GROUND OR 2 FOR BURIED 1

ARE BARRELS IN GOOD, NON-LEAKING CONDITION? Y

IS SITE IN COMPLIANCE WITH RCRA PRINT N

RECOMMEND COMPLIANCE REQUIREMENTS

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

RECOMMEND TO BUILD IMPERVIOUS BERM AROUND TUBS.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 21
SITE NAME: NG EXPLOSION AND OTTO FUEL II SPILL, BIAZZI PLAN

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

CONTAMINATION NO LONGER PRESENT AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 22
SITE NAME: MAIN BURNING POINT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 23
SITE NAME: DECONTAMINATION BURNING POINT/CAFFEE ROAD LANDFI

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING
SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS,
SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL
QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID,
SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR
EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR
POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 24
SITE NAME: TOWN-GUT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS). 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 25
SITE NAME: PAINT SOLVENTS DUMPING GROUND

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? N

IS REACTED EXPLOSIVE WASTE COMBINATION PRESENT? N

CONSIDER MITIGATING ACTION

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

HYDROGEOLOGY IS NOT CONDUCIVE TO MIGRATION

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 26
SITE NAME: WASTE ACID DISPOSAL PIT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SITE CLEANED UP CIRCA 1975. NO EVIDENCE OF CONTAMINATION PRESENT.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 27
SITE NAME: MERCURY DEPOSITES IN MANHOLE, FLUORINE LAB

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 1

IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? N

CONSIDER MITIGATING ACTIONS

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

SPILL CLEANED UP.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 28
SITE NAME: CHEMICALS DUMPED DOWN MANHOLE

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SAMPLING CONDUCTED IN JULY 1981 INDICATES NO PROBLEM.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD
SITE: 29
SITE NAME: RADICATOR

UIC: N00174

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO EVIDENCE OF MAJOR SPILLS AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 30
SITE NAME: DUMPED METAL PARTS ALONG SHORELINE

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

MATERIALS DISPOSED OF AT SITE ARE INERT.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 31
SITE NAME: HOG ISLAND LANDFILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/21/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. N

DOES CONTAMINANT BIODEGRADE TO HAZARDOUS PRODUCTS? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 32
SITE NAME: BLDG 474, ETHYL LACTATE & ETC SPILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

LEAKS FROM DRUMS COULD NOT BE CONFIRMED.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 33
SITE NAME: BLDG 874.ETHYL LACTATE & ETC SPILLAGE

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

LEAKAGE OR SPILLS WERE NOT CONFIRMED AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NQS INDIAN HEAD, MD UIC: N00174
SITE: 34
SITE NAME: CATCH BASINS AT CHIP COLLECTION HOUSES

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO EVIDENCE OF CONTAMINATION PRESENT AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 35
SITE NAME: BRONSON ROAD LANDFILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SITE'S HYDROGEOLOGY IS NOT CONDUCIVE TO CONTAMINANT MIGRATION.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 36
SITE NAME: BRONSON ROAD LANDFILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING
SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS,
SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL
QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID,
SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR
EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? N

IS REACTED EXPLOSIVE WASTE COMBINATION PRESENT? N

CONSIDER MITIGATING ACTION

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

HYDROGEOLOGY IS NOT CONDUCTIVE TO MIGRATION.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 37
SITE NAME: GODDARD POWER PLANT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? Y
OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 38
SITE NAME: NG SLUMS DISPOSAL SITE

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

RECOMMEND THAT TESTING BE DONE PRIOR TO DISTURBING SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 39
SITE NAME: SMALL MOTOR TEST AREA

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? Y

DO CONTAMINANTS DEGRADE INTO HARMLESS PRODUCTS WITHIN FIVE YEARS? N

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 40
SITE NAME: HYDRAULIC OIL DISCHARGES FROM EXTRUSION PLANT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? Y

ARE PETROLEUM PRODUCTS CONSIDERED HAZARDOUS IN THIS STATE? N

IS QUANTITY AT SITE ENOUGH FOR ECONOMICAL RECOVERY? N

DOES SITE HAVE NOXIOUS ODOR OR APPEARANCE? N

IS THERE VISIBLE EVIDENCE OF OIL FROM SITE IN NEARBY WATERWAYS? (MIGRATION) N
IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? N
OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO EVIDENCE OF CONTAMINATION OBSERVED AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 41
SITE NAME: COAL STORAGE PILE

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

REPORTS OF DISPOSAL AT SITE ARE NOT VERIFIED.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 42
SITE NAME: ABANDONED DRAIN LINES

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO CONTAMINATION OBSERVED AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NDS INDIAN HEAD, MD UIC: N00174
SITE: 43
SITE NAME: HYPO DISCHARGES, X-RAY BLDG 2

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? Y

DO CONTAMINANTS DEGRADE INTO HARMLESS PRODUCTS WITHIN FIVE YEARS? N

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 44
SITE NAME: NITRIC ACID SPILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

CONTAMINATION NO LONGER PRESENT AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 45
SITE NAME: SILVER NITRATE SPILL AND HENO DISCHARGES INTO DF

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING
SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS,
SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL
QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID,
SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR
EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER
NOT LEACHATE OR RUNOFF)? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

CONTAMINANT IS NO LONGER PRESENT AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 46
SITE NAME: THERMAL DESTRUCTOR 2

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO EVIDENCE OF CONTAMINATION OBSERVED AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 47
SITE NAME: TCE, PHENOLIC WASTES STORAGE

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO EVIDENCE OF CONTAMINATION OBSERVED AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 48
SITE NAME: THERMAL DESTRUCTOR 1

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO EVIDENCE OF CONTAMINATION OBSERVED AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 49
SITE NAME: ORIGINAL BURNING GROUND

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

NO EVIDENCE OF CONTAMINATION OBSERVED AT SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 50
SITE NAME: SODIUM HYDROXIDE, NITROSAMINE SPILL AT CAUSTIC F

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING
SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS,
SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL
QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID,
SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR
EMISSIONS. 2

ARE THE ONLY CONTAMINANTS PESTICIDES? ENTER N FOR MIXED WASTES. N

WAS DISCHARGE: 1 TO GROUND (INCLUDING PARTICULATES) OR 2 DIRECT TO SURFACE WATER
NOT LEACHATE OR RUNOFF? 2

DOES DISCHARGE FORM A PRECIPITATE OR SEDIMENT IN WATER? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

CONTAMINATION IS NO LONGER PRESENT AT FACILITY.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 51
SITE NAME: THE VALLEY

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SITE COULD NOT BE CONFIRMED

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 52
SITE NAME: STUMP NECK IMPACT AREA

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SITE COULD NOT BE CONFIRMED.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 53
SITE NAME: RANGE #3

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING
SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS,
SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL
QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID,
SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR
EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR
POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 54
SITE NAME: RANGE #6

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 55
SITE NAME: OLD DEMOLITION RANGE

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 56
SITE NAME: UNDERWATER TRAINING AREA

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/21/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 57
SITE NAME: BURN PIT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? N

IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? N

IS HAZARDOUS CONTAMINANT MIGRATING OFF BASE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION STUDY IS RECOMMENDED FOR THE SITE

SITE INVESTIGATION REVEALED NO SIGNS OF CONTAMINATION.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 58
SITE NAME: ARSENIC PIT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

ON-SITE INVESTIGATION FAILED TO REVEALED ANY VISUAL EVIDENCE OF THE SITE

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 59
SITE NAME: RANGE #3 HOLDING TANK

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? Y
OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 60
SITE NAME: SUSPECTED TOOL BURIAL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

SITE COULD NOT BE CONFIRMED.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD
SITE: 61
SITE NAME: SCRAP METAL PIT

UIC: N00174

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

ITEMS DISPOSED OF AT THE SITE ARE INERT.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 62
SITE NAME: TOOL BURIAL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. N

DOES CONTAMINANT BIODEGRADE TO HAZARDOUS PRODUCTS? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

WASTE IS CONSIDERED INERT.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 63
SITE NAME: BURIED TORPEDOES

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS, FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS) ETC. Y

IS WASTE AN OIL OR A FUEL ONLY? N

IS THERE POSSIBLE RADIOLOGICAL CONTAMINATION OF THE SITE? N

IS ADEQUATE GROUNDWATER MONITORING PROGRAM IN EXISTENCE? N

WHAT IS THE TYPE OF CONTAINMENT? ENTER 1 FOR BARRELS, 2 FOR PONDS INCLUDING SLUDGE PITS, OR 3 FOR DUMPS INCLUDING BACK DOOR DUMPS, AIR EMISSIONS, SPILLS, LANDFILLS, ETC. 3

IS SUSPECTED QUANTITY GREATER THAN OR EQUAL TO REPORTABLE SPILL QUANTITY (IF APPLICABLE)? (ENTER Y FOR UNKNOWN) Y

DESCRIBE SITE. ENTER 1 FOR LANDFILL, OPEN DUMP, ETC.; 2 FOR LIQUID, SPILLS, OR DIRECT DISCHARGE TO SURFACE WATER OR TO GROUND (INCLUDING AIR EMISSIONS. 1

ARE THERE IDENTIFIABLE WASTES (SPECIFIC WASTES KNOWN)? Y

IS THERE A SINGLE TYPE OF WASTE? N

IS HYDROGEOLOGY CONDUCTIVE TO MIGRATION? Y

CONSIDER MITIGATING ACTION

CAN HAZARDOUS CONTAMINANT POSSIBLY ENTER WATER SUPPLY THAT MAY BE USED FOR POTABLE OR AGRICULTURAL PURPOSES? N

CAN HAZARDOUS CONTAMINANT ENTER HUMAN OR ENDANGERED SPECIES FOOD CHAIN? N

CAN HAZARDOUS CONTAMINANTS THREATEN ENDANGERED SPECIES IN ANY WAY? N

IS THERE PROBABLE CONTACT WITH HUMAN BEINGS? Y

GO THROUGH CONFIRMATION STUDY RATING MODEL

CONFIRMATION STUDY FLOWCHART

FOR : NQS INDIAN HEAD, MD UIC: N00174
SITE: 64
SITE NAME: CLOSED LANDFILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. N

DOES CONTAMINANT BIODEGRADE TO HAZARDOUS PRODUCTS? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE --- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

THE CONTENTS ARE CLAIMED TO BE CERTIFIED INERT.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 65
SITE NAME: CAUSEWAY

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

THERE IS NO VISUAL EVIDENCE OF HAZARDOUS MATERIALS ON SITE.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 66
SITE NAME: NEW DISPOSAL PIT

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. N

DOES CONTAMINANT BIODEGRADE TO HAZARDOUS PRODUCTS? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

THE PIT IS TO CONTAIN INERT METAL ORDNANCE PARTS.

CONFIRMATION STUDY FLOWCHART

FOR : NOS INDIAN HEAD, MD UIC: N00174
SITE: 67
SITE NAME: RUM POINT LANDFILL

DATA COMPILED BY: FRED C. HART
DATA ENTERED BY : HEATH
DATA ENTRY DATE : 9/20/82

WAS SITE SUBSTANTIALLY VERIFIED AS A DISPOSAL SITE? Y

DOES THE SITE HAVE A PERMIT UNDER RCRA, NPDES, ETC.? N

IS CONTAMINANT A LISTED HAZARDOUS WASTE OR HAZARDOUS MATERIAL INCLUDING OILS,
FUEL, ORDNANCE, RADIOLOGICAL (IN TSCA, RCRA, FIFRA, 10 CFR, STATE REGULATIONS)
ETC. N

DOES CONTAMINANT BIODEGRADE TO HAZARDOUS PRODUCTS? N

OUT -- NO CONFIRMATION STUDY

ENTER EXPLANATION FOR MAKING THIS CHOICE -- THIS IS THE REASON NO CONFIRMATION
STUDY IS RECOMMENDED FOR THE SITE

WASTES DISPOSED OF AT SITE ARE NOT HAZARDOUS.

APPENDIX C

List of EPA Priority Pollutants

List of 129 Priority Pollutants

Compound Name

1. *acenaphthene
2. *acrolein
3. *acrylonitrile
4. *benzene
5. *benzidine
6. *carbon tetrachloride (tetrachloromethane)

*Chlorinated benzenes (other than dichlorobenzenes)

7. chlorobenzene
8. 1,2,4-trichlorobenzene
9. hexachlorobenzene

*Chlorinated ethanes (including 1,2-dichloroethane, 1,1,1-trichloroethane and hexachloroethane)

10. 1,2-dichloroethane
11. 1,1,1-trichloroethane
12. hexachloroethane
13. 1,1-dichloroethane
14. 1,1,2-trichloroethane
15. 1,1,2,2-tetrachloroethane
16. chloroethane

*Chloroalkyl ethers (chloromethyl, chloroethyl and mixed ethers)

17. bis(chloromethyl) ether

*Specific compounds and chemical classes as listed in the consent decree.

18. bis(2-chloroethyl) ether
19. 2-chloroethyl vinyl ether (mixed)

*Chlorinated naphthalene

20. 2-chloronaphthalene

*Chlorinated phenols (other than those listed elsewhere; includes trichlorophenols and chlorinated cresols)

21. 2,4,6-trichlorophenol
22. parachlorometa cresol
23. *chloroform (trichloromethane)
24. *2-chlorophenol

*Dichlorobenzenes

25. 1,2-dichlorobenzene
26. 1,3-dichlorobenzene
27. 1,4-dichlorobenzene

*Dichlorobenzidine

28. 3,3'-dichlorobenzidine

*Dichloroethylenes (1,1-dichloroethylene and 1,2-dichloroethylene)

29. 1,1-dichloroethylene
30. 1,2-trans-dichloroethylene

31. *2,4-dichlorophenol

*Dichloropropane and dichloropropene

32. 1,2-dichloropropane
33. 1,2-dichloropropylene (1,3-dichloropropene)
34. *2,4-dimethylphenol

*Dinitrotoluene

- 35. 2,4-dinitrotoluene
- 36. 2,6,-dinitrotoluene
- 37. *1,2-diphenylhydrazine
- 38. *ethylbenzene
- 39. *fluoranthene

*Haloethers (other than those listed
elsewhere)

- 40. 4-chlorophenyl phenyl ether
- 41. 4-bromophenyl phenyl ether
- 42. bis(2-chloroisopropyl) ether
- 43. bis(2-chloroethoxy) methane

*Halomethanes (other than those listed
elsewhere)

- 44. methylene chloride (dichloromethane)
- 45. methyl chloride (chloromethane)
- 46. methyl bromide (bromomethane)
- 47. bromoform (tribromomethane)
- 48. dichlorobromomethane
- 49. trichlorofluoromethane
- 50. dichlorodifluoromethane
- 51. chlorodibromomethane
- 52. *hexachlorobutadiene
- 53. *hexachlorocyclopentadiene
- 54. *isophorone

55. *naphthalene

56. *nitrobenzene

*Nitrophenols (including 2,4-dinitrophenol
and dinitrocresol)

57. 2-nitrophenol

58. 4-nitrophenol

59. *2,4-dinitrophenol

60. 4,6-dinitro-o-cresol

*Nitrosamines

61. N-nitrosodimethylamine

62. N-nitrosodiphenylamine

63. N-nitrosodi-n-propylamine

64. *pentachlorophenol

65. *phenol

*Phthalate esters

66. bis(2-ethylhexyl) phthalate

67. butyl benzyl phthalate

68. di-n-butyl phthalate

69. di-n-octyl phthalate

70. diethyl phthalate

71. dimethyl phthalate

*Polynuclear aromatic hydrocarbons

72. benzo(a)anthracene (1,2-benzanthracene)

73. benzo (a) pyrene (3,4-benzopyrene)
74. 3,4-benzofluoranthene
75. benzo(k)fluoranthene (11,12-benzofluoranthene)
76. chrysene
77. acenaphthylene
78. anthracene
79. benzo(ghi)perylene (1,12-benzoperylene)
80. fluorene
81. phenanthrene
82. dibenzo (a,h)anthracene (1,2,5,6-dibenzanthracene)
83. indeno (1,2,3-cd)pyrene (2,3-o-phenylenepyrene)
84. pyrene
85. *tetrachloroethylene
86. *toluene
87. *trichloroethylene
88. *vinyl chloride (chloroethylene)

Pesticides and Metabolites

89. *aldrin
90. *dieldrin
91. *chlordane (technical mixture & metabolites)

*DDT and metabolites

92. 4,4'-DDT
93. 4,4'-DDE (p,p'-DDX)
94. 4,4'-DDD (p,p'-TDE)

*endosulfan and metabolites

- 95. a-endosulfan-Alpha
- 96. b-endosulfan-Beta
- 97. endosulfan sulfate

*endrin and metabolites

- 98. endrin
- 99. endrin aldehyde

*heptachlor and metabolites

- 100. heptachlor
- 101. heptachlor epoxide

*hexachlorocyclohexane (all isomers)

- 102. a-BHC-Alpha
- 103. b-BHC-Beta
- 104. r-BHC (lindane)-Gamma
- 105. g-BHC-Delta

*polychlorinated biphenyls (PCB's)

- 106. PCB-1242 (Arochlor 1242)
- 107. PCB-1254 (Arochlor 1254)
- 108. PCB-1221 (Arochlor 1221)
- 109. PCB-1232 (Arochlor 1232)
- 110. PCB-1248 (Arochlor 1248)
- 111. PCB-1260 (Arochlor 1260)
- 112. PCB-1016 (Arochlor 1016)

113. *Toxaphene

114. *Antimony (Total)

115. *Arsenic (Total)

- 116. *Asbestos (Fibrous)
- 117. *Beryllium (Total)
- 118. *Cadmium (Total)
- 119. *Chromium (Total)
- 120. *Copper (Total)
- 121. *Cyanide (Total)
- 122. *Lead (Total)
- 123. *Mercury (Total)
- 124. *Nickel (Total)
- 125. *Selenium (Total)
- 126. *Silver (Total)
- 127. *Thallium (Total)
- 128. *Zinc (Total)
- 129. **2,3,7,8 - tetrachlorodibenzo-p-dioxin (TCDD)

APPENDIX D
Available Well Logs

Well 15

Formation Log

0-84	Clay
84-95'6"	Water Sand
95'6"-187	Clay
187-205'6"	Water Sand
205'6"-227	Clay
227-234'5"	Water Sand
234-238'5"	Clay
238'5"-244'6"	Water Sand
244'6"-284'5"	Clay
264'5"-279'6"	Water Sand
279-455	Clay
455-463	Water Sand
463-615	Clay
615-	Bedrock

Well 16

Formation Log

0-83	Clay
83-94	Water Sand
94-123	Sandy clay
123-125	Water sand
125-130	Sandy sand
130-132	Water sand
132-144	Sandy Clay
144-152	Water sand
152-219	Clays
219-229	Water sand
229-232	Clay
232-242	Water sand

Well 17

Formation Log

0-20	Brown Clay
20-35	Gray Clay
35-42	Sand & Wood
42-63	Mixed Clays
63-82	Sand & Gravel
82-142	Tough Clay
142-162	Clay with Sand
162-178	Coarse Sand
178-260	Clays
260-282	Coarse Sand
282-295'5"	Sand Streak
295'6"-452	Clays

Well 18

Formation Log

0-60	Clay
60-87	Sand & Gravel
87-206	Clays
206-220	Sand
220-272	Clay
272-286	Coarse Sand
286-287	Clay
287-302	Coarse Sand
302-605	Clays

Well A(24)

Formation Log

0-40	Red clay & sand
40-113	Gray & red clay
113-116	Sand & gravel
116-150	Gray sand, clay, gravel
150-154	Gray sand
154-170	Gray sand & clay
170-181	Sand & sand rock
181-191	Gray clay
191-216	Gray sand & clay
216-246	Gray sand
246-259	Gray sand & clay
259-306	Gray sand
306-319	Gray clay & sand
319-331	Gray sand
331-350	Mix clay & sand

Well B(23)

Formation Log

0-6	Brown Sand clay
6-21	White clay & gravel
21-54	Gray clay & fine gravel
54-79	Gray clay & Coarse gravel
79-159	Blue clay, sand & gravel
159-178	Gray sand, some gray clay
178-186	Blue clay, sand & gravel
186-214	Gray sand
214-218	Gray clay & sand
214-302	Gray sand & gravel
302-330	Gray sand, clay & gravel

Well 43SN

FORMATION

0' - 10' - Yellow sandy clay
 10' - 20' - Large gravel
 20' - 60' - Blue and brown clay
 60' - 69' - Sandy marl
 69' - 73' - Gray muddy sand
 73' - 123' - Brown clay
 123' - 130' - Gray sand
 130' - 176' - Alternate streaks of
 brown and blue clay
 176' - 186' - Gray muddy sand
 186' - 205' - Fine sand
 205' - 217' - Mud and sand
 217' - 245' - Streaks of sand and blue clay
 245' - 265' - Brown and blue clay
 265' - 273' - Gray muddy sand
 273' - 276' - Coarse gray sand
 276' - 278' - Sticky brown clay
 278' - 290' - Gray muddy sand
 290' - 295' - Very sticky blue clay
 295' - 320' - Very sticky red and brown clay
 320' - 375' - Brown and blue clay
 375' - 395' - Streaks of sand and clay
 395' - 414' - Brown and blue sandy clay
 414' - 420' - Very fine gray sand
 420' - 425' - Brown clay
 425' - 454' - Water-bearing sand

Well 66SN

FORMATION

0' - 35' - Yellow sandy clay
 35' - 50' - Brown clay
 50' - 60' - Gray sand
 60' - 110' - Gray and brown sandy clay
 110' - 147' - Brown clay
 147' - 155' - Gray sand
 155' - 295' - Blue and brown clay
 295' - 312' - Gray sand - tested 45 G.P.M.
 312' - 320' - Blue clay
 320' - 395' - Blue and brown clay
 395' - 409' - Fine gray sand
 409' - 414' - Blue sandy clay
 414' - 418' - Gray muddy sand
 418' - 422' - Blue and brown sandy clay
 422' - 443' - Gray water-bearing sand
 443' - Blue clay

APPENDIX E

Inventory of Terrestrial Fauna

Inventory of Terrestrial Fauna

A. BIRDS

The following is a listing of birds which have been identified as common or abundant in the Charles County section of Maryland:

Horned Grebe	Laughing Gull
Great Blue Heron	Mourning Dove
Green Heron	Yellow-billed Cuckoo
Whistling Swan	Barred Owl
Canada Goose	Whip-poor-will
Mallard	Chimney Swift
Black Duck	Common Flicker
American Wigeon	Red-bellied Woodpecker
Wood Duck	Downy Woodpecker
Canvasback	Eastern Kingbird
Common Goldeneye	Eastern Phoebe
Bufflehead	Acadian Flycatcher
Ruddy Duck	Eastern Wood Pewee
Common Merganser	Tree Swallow
Red-breasted Merganser	Barn Swallow
Turkey Vulture	Purple Martin
Red-tailed Hawk	Blue Jay
Red-shouldered Hawk	Carolina Chickadee
Osprey	Tufted Titmouse
American Kestrel	White-breasted Nuthatch
Bobwhite	Brown Creeper
Killdeer	Carolina Wren
Common Snipe	Mockingbird
Herring Gull	Gray Catbird
Ring-billed Gull	Brown Thrasher
American Robin	Rufous-sided Towhee
Wood Thrush	Dark-eyed Junco
Eastern Bluebird	Chipping Sparrow
Blue-gray Gnatcatcher	Field Sparrow
Golden-crowned Kinglet	White-throated Sparrow
Ruby-crowned Kinglet	Song Sparrow
Cedar Waxwing	Eastern Meadowlark
Starling	Red-winged Blackbird
White-eyed Vireo	Common Grackle
Red-eyed Vireo	Scarlet Tanager
Northern Parula	Cardinal
Yellow-rumped Warbler	Indigo Bunting
Blackpoll Warbler	American Goldfinch
Prairie Warbler	Ovenbird
Common Yellow-throat	American Redstart
House Sparrow	

B. MAMMALS

The following is a listing of mammals known to be common or abundant in Charles County:

Opossum	Least Shrew
Eastern Mole	Star-nosed Mole
Little Brown Myotis	Keen's Myotis
Silver-haired Bat	Eastern Pipistrelle
Red Bat	Woodchuck
Gray Squirrel	Southern Flying Squirrel
White-footed Mouse	Meadow Vole
Pine Vole	Muskrat
Norway Rat	House Mouse
Meadow Jumping Mouse	Eastern Cottontail
Raccoon	White-tailed Deer

C. REPTILES

The following is a listing of reptiles identified as common or abundant in Charles County:

1. Lizards

Northern Fence Lizard
Six-lined Racerunner
Five-lined Skink

2. Snakes

Eastern Worm Snake
Eastern Hognose Snake
Rough Green Snake
Black Rat Snake
Eastern King Snake
Northern Water Snake
Northern Brown Snake
Eastern Garter Snake

3. Turtles

Eastern Mud Turtle
Snapping Turtle
Eastern Box Turtle

D. AMPHIBIANS

The following is a listing of amphibians found to be common or abundant in Charles County:

1. Salamanders

Northern Two-lined Salamander
Red-backed Salamander
Northern Red Salamander
Northern Dusky Salamander

2. Frogs and Toads

American Toad
Fowler's Toad
Northern Cricket Frog
Northern Spring Peeper
Upland Chorus Frog
Bullfrog
Green Frog
Southern Leopard Frog
Pickereel Frog

Reference: U.S. Department of Agriculture Soil Conservation Service.
Project Plan Supplement No. 1 - Southern Maryland Resource
Conservation and Development Project. College Park,
Maryland. July 1975.

APPENDIX F

Hazardous Materials Stored at NOS

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Acetaldehyde	R16	Toxic	320 lbs	924	55-gal drum	Indefinite
Acetic acid (glacial)	11	Corrosive	14,676 lbs	410A	Storage Tank	6 months
	ME	Corrosive	2 lbs	1600	Glass bottle	1-2 yrs
	R16	Corrosive	70 lbs	555	Glass	Indefinite
	303	"	288 lbs	600 102	jugs "	1 month
	526	Corrosive	300 lbs	843	30-gal drums	Indefinite
Acetic anhydride	11	Corrosive	72 lbs	304	Glass bottles	1 year
	R16	Corrosive	2 lbs	925	Glass bottle	Indefinite
Acetone	11	Ignitable	333 gals	263 304	Glass bottles	6 months
	11	Ignitable	40,000 lbs		Tank	
	20	Ignitable	110 gals	1131	Drums inside adequate shelter	6-12 mos

outside container

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Acetone	20	Ignitable	10,000 gals	777	Drums inside adequate shelter	6-12 mos
	0944	Ignitable	1 gal	268	Metal can	6-12 mos
	0942	Ignitable	5 gals		Grounded shed outside bldg. 870	6-12 mos
Acetonitrile (Methyl cyanide)	526	Toxic	1 lb	903B	Glass bottle	Indefinite
Acetylene	0941	Ignitable	5-12 cylinders	111 113	Metal cylinders inside adequate shelter	
	0943	Ignitable	11 cylinders (480 cu ft)	193	Metal cylinders inside adequate shelter	Used continuously
	0944	Ignitable	1 tank	268	"	Used continuously

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	095	Ignitable	4 bottles	525	Metal cylinders inside adequate shelter	1 year
Acetylene	096	Ignitable	5 cylinders	873	Metal cylinders inside adequate shelter	1 year
	R16	Ignitable	4 cylinders	600	Metal cylinders outside on concrete	Indefinite
	303	"	2 cylinders	101 102	Metal cylinders inside adequate shelter	3 months
Acetyl triethyl citrate	526	None	500 lbs	704	Drums	1 year
Acetylamino fluorene (Acetamido fluorene)	526	Toxic	100 lbs	543	Drums	1 year
Acrylonitrile	R16	Toxic	110 lbs	555 600	1 gal glass bottles in adequate shelter	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Adipic acid	R16	Reactive	2 lbs	600	1 gal	Indefinite
	526	Reactive	2 lbs	855	bottles in adequate shelter	Indefinite
Allyl alcohol	R16	Toxic	4.4 lbs	600	1 gal bottles in adequate shelter	Indefinite
Allyl chloride	526	Ignitable	2 lbs	855	Glass bottle	Indefinite
Aluminum (powdered)	20	Ignitable	50,000 lbs	325 505 455 858	Steel drums in adequate shelter	6+ years
	526	Ignitable	126 lbs	903A 903B	Metal drum	1 year
Aluminum sulfate	096	Reactive	1840 lbs	483		1 year
	R16	"	2 lbs	600	Adequate storage	Indefinite
Ammonia	096	Toxic	300 lbs	837	Steel	1 year
	096	Toxic	300 lbs	299	Cylinders	1 year
	20	Toxic	100 gals	670 775	"	"
	302	Toxic	100 lbs	759	"	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Ammonia	R16	Toxic	300 lbs	502	Steel cylinders adequate shelter	Indefinite
	R16	Toxic	450 lbs	600		
Ammonium acetate	R16	Toxic	5 lbs	502 600	Adequate shelter	Indefinite
Ammonium acetate	11	Toxic	9 lbs	304	"	1 year
Ammonium bicarbonate	R16	Toxic	3 lbs	600	Adequate shelter	Indefinite
Ammonium bichromate	11	Toxic, Ignitable	5 lbs	304	"	Indefinite
	526		106 lbs	903B		
Ammonium bifluoride	R16	Toxic	1 lb	923	Adequate concrete shelter	Indefinite
Ammonium carbamate	526	Toxic	1 lb	903A	Glass bottle	Indefinite
Ammonium carbonate	11	Toxic	5 lbs	304	Glass bottle	"
	R16	"	6 lbs	600 923	Adequate shelter	Indefinite
	303	"	5 lbs	102	"	5 years
Ammonium chloride	11	Toxic Reactive	18 lbs	304	"	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	R16	Toxic Reactive	7 lbs	600 925	Adequate shelter	Indefinite
	526	Toxic Reactive	800 lbs	288	"	Indefinite
	526	Toxic Reactive	2 lbs	855	"	Indefinite
Ammonium fluoride	R16	Toxic	3 lbs	600 925	Adequate shelter	Indefinite
Ammonium hydroxide (28-30%)	11	Toxic Reactive	21 gals	117 304	Glass bottles	"
	ME	Toxic Reactive	1 lb	1600	"	"
	R16	Toxic Reactive	5 gals	600	Adequate shelter	Indefinite
	303	Toxic Reactive	2 lbs	102	Adequate shelter	6 months
Ammonium nitrate	526	Ignitable	2 lbs	903B	Glass bottle	Indefinite
	526	Ignitable	16,800 lbs	212	Adequate storage	6 months
Ammonium oxalate	11	Corrosive Toxic	10 lbs	304	Glass bottle	1 year

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	526	Corrosive Toxic	100 lbs	903A	Cardboard drum	1 year
Ammonium perchlorate	11	Ignitable Reactive	19 lbs	304	Glass bottle	1 year
	11	Ignitable Reactive	297,976 lbs	454 473 505 508 509	Steel drums	1 year
Ammonium sulfamate	R16	Toxic	3 lbs	925	Adequate shelter	Indefinite
Ammonium sulfate	526	Reactive	900 lbs	288	Paper bags	Indefinite
	526	Reactive	1 lb	Purchased 855	Glass bottle	Indefinite
Ammonium sulfide	11	Toxic	20 lbs	304	Metal can	Indefinite
	526	Toxic	8 lbs	288	"	"
	R16	Toxic	4 lbs	600	adequate shelter	"
Ammonium sulfite (30 % solution)	11	Reactive Toxic	2.25 lbs	304	Glass bottle	Indefinite
Ammonium thiocyanate	11	Toxic	9 lbs	304	Glass bottle	Indefinite
	R16	Toxic	1 lb	600	Adequate shelter	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Ammonium thiosulfate	R16	Toxic	1 lb	600	Adequate shelter	Indefinite
Antimony trioxide	526	Toxic	2 lbs	903B	Glass bottle	Indefinite
Amyl acetate	R16	Toxic Reactive	2 lbs	925	Adequate concrete shelter	Indefinite
	11	Toxic Reactive	2.7 lbs	304	Adequate shelter	"
Aniline	R16	Toxic Reactive	4 lbs	600	Adequate shelter	Indefinite
	303	Toxic	5 lbs	#102	Adequate	1 year
Antimony fluoride	R16	Toxic	1 lb	925	Adequate storage	Indefinite
Antimony sulfide	511	Reactive Toxic	100 lbs	304	Metal drums in brick bldg.	Indefinite
Antimony trioxide	11	Toxic	2.5 lbs	304	Bottle	Indefinite
Arsenic trioxide (Arsenous Acid)	R16	Toxic	8 lbs	923	Adequate shelter	Indefinite
Asbestos	0941	Toxic	1/8" thick rolls	113	Plastic bags	

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	0943	Toxic	1" rope	193	"	Used continuously
	095	Toxic	3 lbs	290		Indefinite
	302	Toxic	120 ft ²	1443 1448 1631		6 months
	526	Toxic	1100 lbs	856 855 903A 903B	Paper bags " "	Indefinite " "
Asbestos in fibre form	R16	Toxic	1 lb	600	Adequate shelter	"
Barium chromate	511	Toxic	4000 lbs	1408	Fiber drums in metal shed	Indefinite
Benzene	R16	Toxic Ignitable	9 gals	600	Metal cans in adequate shelter	"
	303	Toxic	2 gals	102	Metal cans in adequate shelter	1 year
Benzidine	R16	Toxic	1 lb	925	Adequate shelter	Indefinite

No longer use

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	526	Toxic	200 lbs	453	Metal cans	Indefinite
Benzoic acid	R16	Toxic	2 lbs	600	Metal cans	Indefinite
Benzonitrile	R16	Toxic	9.4 lbs	600 925	Metal cans	Indefinite
Benzoyl chloride	R16	Toxic Reactive	3 lbs	925	Metal cans	Indefinite
Beryllium (powder)	R16	Toxic	2 lbs	923	Metal cans	Indefinite
Boron (powder)	526	Toxic	400 lbs	903A	Metal cans	1 year
Butanetriol trinitrate	20	Ignitable	1,000 lbs	676	Metal cans adequate storage	6 months
Butyl acetate	11	Ignitable	69,110 lbs		Railroad tank car	
	20	Ignitable	22,000 lbs	183 875 808	Railroad tank car	2 years
n-Butyl phthalate	R16	Ignitable	32 gals	502 600 925	Adequate shelter	Indefinite
	R16	Ignitable	1 gal	600	Adequate shelter	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Butylamine	R16	Ignitable Toxic	2 lbs	923	Adequate shelter	Indefinite
	303	Ignitable Toxic	10 lbs	881 102	Adequate shelter	2 years
Butyric acid	R16	Reactive	2 lbs	925	Adequate shelter	Indefinite
Cadmium (metal)	11	Toxic	2 lbs	304	"	"
	R16	Toxic	1 lb	600	Adequate shelter	Indefinite
Cadmium acetate	R16	Toxic	8 lbs	923	Adequate shelter	Indefinite
Cadmium carbonate	R16	Toxic	7 lbs	923	Adequate shelter	Indefinite
Cadmium chloride	11	Toxic	2.25 lbs	304	"	"
	526	Toxic	95 lbs	856	Metal drum	Indefinite
Calcium carbide	11	Ignitable	2 lbs	304	Glass bottles	"
Calcium chloride	2014	Corrosive	10,000 lbs		Tank brine	Used continuously

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Calcium chromate	511	Toxic	100 lbs	1408	Metal drums in metal shed	Indefinite
Calcium cyanide	R16	Toxic	2 lbs	923	Adequate storage	Indefinite
Calcium hydroxide	R16	Toxic	3.5 lbs	600 925	Adequate storage	Indefinite
	11	Toxic	6 lbs	304	Adequate storage	Indefinite
Calcium hypochlorite	11	Toxic Corrosive Reactive	24 lbs	304	Adequate storage	Indefinite
	096	Toxic Corrosive Reactive	225 lbs	.	Utilities box car	30 days
	R16	Toxic Corrosive Reactive	30 lbs	923 925	Adequate storage	Indefinite
Calcium oxide	11	Reactive	1 lb	304	Glass bottle	Indefinite
	R16	Reactive	25 lbs	600 923	Adequate storage	"
	303	Reactive	1 lb	102	Adequate storage	5 years

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	526	Reactive	8 lbs	855	Glass bottles	Indefinite
Carbon disulfide	11	Toxic	4.5 gals	304	Glass bottles	Indefinite
	R16	Toxic	1.8 gals	600	Adequate storage	"
	303	Toxic	1 gal	102	Adequate storage	1 year
Carbon tetrachloride	11	Toxic	11.5 gals	304	"	Indefinite
	R16	Toxic	10 gals	600	Adequate storage	Indefinite
	303	Toxic	0.5 gal	102	Adequate storage	1 year
	526	Toxic	1.3 gals	903	Adequate storage	1 year
"Cellosolve" solvent	526	Toxic	45 lbs	801	Adequate storage	1 year
Chlorine	096	Toxic	3900 lbs	Various sites	Cylinders	2-3 weeks
	R16	Toxic	400 lbs	600	Cylinders stored on concrete	1 year
Chlorobenzene	303	Toxic	0.5 gal	102	Glass bottle	1 year

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Chloroform	526	Toxic	14 lbs	855	Glass bottle	Indefinite
	11	Toxic	31 gals	304	Glass bottle	Indefinite
	ME	Toxic	1 lb	1600	Glass bottle	Indefinite
	R16	Toxic	19.5 gals	600	Adequate storage	Indefinite
	303	Toxic	10 gals	102	Adequate storage	1 year
Chromic acid	R16	Toxic Reactive	11 lbs	600 923	Adequate storage	1 year
Chromic sulfate	R16	Corrosive Toxic	5 lbs	502 923	Adequate storage	
	526		2 lbs	855	Glass bottle	Indefinite
Chromous chloride	R16	Corrosive	5 lbs	923	Glass bottle	Indefinite
Cupric acetate	R16	Toxic	4.5 lbs	600	Adequate storage, metal cabinet	Indefinite

4

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Cupric acetoarsenite	R16	Toxic	1 lb	600	Adequate storage, metal cabinet	Indefinite
Cupric chloride	R16	Toxic	1 lb	923	Wood cabinet	Indefinite
	303	Toxic	2 lbs	102	Adequate storage	5 years
	11	Toxic	9 lbs	304	Adequate storage	Indefinite
Cupric nitrate	R16	Ignitable	1 lb	600	Metal cabinet	Indefinite
Cupric oxide	526	Reactive	3 lbs	903B	Cardboard drum	Indefinite
Cupric sulfate	11	Toxic Corrosive	18 lbs	304	Bottles	Indefinite
	R16	Toxic Corrosive	6 lbs	600	Metal & wood cabinets	Indefinite
	526	Toxic Corrosive	11 lbs	903A 903B	Paper bag	1 year
Cyclohexane	R16	Ignitable	22 gals	107 600	Adequate storage	Indefinite
	526	Ignitable	32 lbs	856	Metal can	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
DDT	11	Toxic	55 gals	263	Steel drum	Indefinite
Diacetone alcohol	526	Toxic	450 lbs	801	Drums	1 year
Diazinon (2% dust)	11	Toxic	25 lbs	117	Drums	1 year
Diazinon (48% liquid)	11	Toxic	22 gals	117	Drums	1 year
Dibutyl phthalate	526	Reactive	970 lbs	801 288	Metal drums	2 years
	11	Reactive	78 lbs	304	Metal drums	1 year
	R16	Reactive	1.5 lbs	600	Wood cabinet	5 years
Dibutyl sebacate	303	Reactive	0.5 gal	102	Wood cabinet	5 years
	2014	Ignitable	6,000 gals	1461	Tank	Used continuously
o-Dichlorobenzene	R16	Toxic	20 lbs	600	Wood cabinet	Indefinite
Dichlorodifluoromethane (Freon-12)	0943	Toxic	1,200 lbs	193	Metal bottles	Used continuously
1,2-Dichloroethylene	R16	Ignitable	0.75 gal	600	Adequate storage	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Diethyl diphenyl urea (Ethyl centralite)	202	Ignitable	600 lbs	859	250-lb Fiber drum inside adequate shelter	3 years
Diethyl phthalate	20	Toxic	10 lbs		Metal containers	1 year
	303	Toxic	0.5 gal	102	Metal containers	5 years
	526	Toxic	450 lbs	801	Metal drum	2 years
Dihydrazine sulfate	526	Toxic	2.2 lbs	288	Bottle	Indefinite
Diethylene glycol	2014	Toxic	10,000 lbs	806	Drums	Used continuously <i>5/10/54</i>
Diethylene glycol dinitrate	2014	Ignitable Toxic	20,000 lbs	676	Steel containers	Used continuously
Dimethyl formamide	R16	Toxic Ignitable	15 gals	502 600 923	Steel or wood cabinets	Indefinite
	303	Toxic Ignitable	2 gals	101	Steel or wood cabinets	1 year
	526	Toxic Ignitable	450 lbs	801	55-gal drum	2 years

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	526	Toxic Ignitable	24 lbs	856	Bottles	2 years
Dimethyl phthalate	20	Toxic Ignitable	3,000 lbs	806	55-gal drums	Used continuously
	303	Toxic Ignitable	0.5 gal	102	Bottle	1 year
	526	Toxic Ignitable	300 lbs	801	55-gal drums	2 years
Dimethylamine	R16	Toxic Ignitable Reactive	450 lbs	600	Steel cylinders chained outside on concrete	1 year
Dimethylamine hydrochloride	11	Toxic	4.4 lbs	304	Bottle	Indefinite
	R16	Toxic	5.3 lbs	600 925	Wood cabinets	Indefinite
Dinitrochlorobenzene (DNCB)	R16	Toxic	1,400 lbs	502 555	Metal drums on concrete floor	Indefinite
2, 4-Dinitrophenoxy ethanol (DNPHE)	R16	Ignitable	685 lbs	555	Plastic bags on concrete floor	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	526	Ignitable	330 lbs	212	Plastic-lined containers	6 months
Diocetyl phthalate (Di-2-ethylhexyl-phthalate)	303	Toxic Ignitable	0.5 gal	102	Bottle	1 year
	526	Toxic Ignitable	850 lbs	801	55-gal drum	2 years
p-Dioxane	R16	Toxic Ignitable	61 gals	107 600 923 924	Bottles or drums on concrete floor	Indefinite
	303	Toxic	5 gals	102	Bottles	1 year
Epichlorohydrin	R16	Toxic	1 gal	600	Wood cabinet	Indefinite
Ethyl acetate	2014	Ignitable	1,000 lbs	806	Drums	Used continuously
Ethyl alcohol	2013	Ignitable	10,000 gals	164 165 1012 1013	Tanks in concrete bldg.	All year
Ethyl ether	2013	Ignitable	50,000 gals	164 1012 1013	Tanks in concrete bldg.	All year

Storage

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Ethylbenzene	R16	Ignitable	0.25 gal <i>24</i>	600	Wood cabinet, adequate storage	Indefinite
Ethylendichloride	R16	Toxic Ignitable	0.5 gal <i>50</i>	600	Wood cabinet, adequate storage	Indefinite
Ethylenediaminetetraacetic Acid (EDTA)	R16	Toxic	8 lbs	600 923	Wood cabinet, adequate storage	Indefinite
	526	Toxic	56 lbs	855 856	Metal can	Indefinite
Ferric chloride	11	Toxic Ignitable	22 lbs	304	Bottles	Indefinite
	R16	Toxic Ignitable	5 lbs	502 600 923	Wood cabinet; adequate storage	Indefinite
	526	Toxic Ignitable	5 lbs	855 903B	Glass bottles	Indefinite
Ferric nitrate	11	Toxic Ignitable	6 lbs	304	Glass bottles	Indefinite

20

Enclosure (1)

*75 gal
94 gal*

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	R16	"	8 lbs	502 925	Wood or metal cabinets; adequate storage	Indefinite
Ferric sulfate	11	Toxic	15 lbs	304	Glass bottles	2 years
	303	Toxic	2 lbs	102	Glass bottles	2 years
	526		3 lbs	855	Glass bottles	Indefinite
Ferrous ammonium sulfate	11	Reactive	5 lbs	304	Glass bottles	
	R16	Reactive	4 lbs	600 923	Wood or metal cabinets; adequate storage	Indefinite
	303	Reactive	5 lbs	101 102	"	1 year
	526	Reactive	2 lbs	855	Glass bottles	Indefinite
			21			Enclosure (1)

4 lbs

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Ferrous chloride	R16	Toxic	1 lb	600	Wood cabinet; adequate storage	Indefinite
Ferrous sulfate	R16	Toxic	24 lbs	555 600 923	Adequate Storage	Indefinite
	526	Toxic	3 lbs	855 903B	Glass bottles	Indefinite
Formaldehyde	11	Toxic	17 lbs	304	Glass bottles	Indefinite
	ME	Toxic	2 lbs	1600	Glass bottles	Indefinite
	R16	Toxic	11 lbs	600	Solvent storage	Indefinite
	526	Toxic	12 lbs	855 856	Metal container	Indefinite
Formic acid	11	Toxic	20 lbs	304	Glass bottles	Indefinite
	R16	Toxic	1.5 lbs	925	Concrete bldg.	"
Fumaric acid	526	None	2 lbs	855	Glass bottle	Indefinite

22

Enclosure (1)

745 lbs

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Guanidine nitrate	526	Ignitable	100 lbs	288	Drums	1 year
n-Heptane	11	Ignitable	2,475 lbs	263	Tanks	1 year
Hexanedione-2,5 (Acetonyl acetone)	526	Toxic	15 lbs	801	Bottles	1 year
Hydrochloric acid (Muriatic Acid)	0941	Corrosive toxic	10-20 gals	Glass containers " outside bldg. 113		
	11	Corrosive Toxic	3,074 lbs	410	Drums	Indefinite
	203	Corrosive Toxic	15 gals	436 497	Drums	1 year
	302	Corrosive Toxic	1 gal	754	Glass bottles	Indefinite
	303	Corrosive Toxic	1 gal	101	Glass bottles	1 month
	ME	Corrosive Toxic	1 gal	1600	Glass bottles	Indefinite
	R16	Corrosive Toxic	31 gal	502 555 600	Metal cabinets Adequate storage	Indefinite
HMX (Cyclotetramethylenetetranitramine)	526	Ignitable	4,912 lbs	Mag. 9LT3A	Waterproof cardboard drum	1 year

15

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Hydrofluoric acid (48%)	09514	Toxic Corrosive	25 lbs	289	Acid locker	1 year
	11	Toxic Corrosive	33 lbs	304		1 year
Hydrogen	303	Reactive		101	Metal cylinders inside adequate shelter	1 month
Hydrogen peroxide (30%)	11	Toxic Ignitable	2.75 gals	304	Glass bottles	1 year
Hydroxyl ammonium chloride (Hydroxylamine hydrochloride)	526	Toxic	100 lbs	288	Drums	1 year
Hydroxy Terminated Polybutadiene	526	Ignitable	8,250 lbs 1,600 lbs	453	Drums	1 year
				288	Drums	
Isophorone diisocyanate (IPDI)	526	Toxic	976 lbs	453 903A 903B	66 lb cans	6 months
Isopropyl ether	526	Ignitable	20 lbs	903B	Metal cans	Indefinite
Isopropylanine	526	Ignitable Toxic	12 lbs	856	Bottles	Indefinite
Lead (metal)	526	Toxic	1 lb	855	Glass bottle	Indefinite

LIST OF HAZARDOUS MATERIALS

117

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	0941	Toxic	50+ lbs	111 113		Indefinite
	302	Toxic	200 lbs	1631		Indefinite
	R16	Toxic	18 lbs	600 888 923	Wood or metal cabinets	Indefinite
Lead acetate	11	Toxic	5 lbs	304	Bottles	"
	526	Toxic	145 lbs	288 856	Paper bag	Indefinite
	R16	Toxic	1 lb	600	Adequate shelter	Indefinite
Lead carbonate	526	Toxic	5 lbs	903B	Cardboard drums	Indefinite
Lead chloride	R16	Toxic	6 lbs	600 923	Adequate shelter	Indefinite
	303	Toxic	1 lb	102	Adequate shelter	5 years
Lead chromate (chrome yellow)	11	Toxic	9 lbs	304	"	Indefinite
	511	Toxic	2,000 lbs	1408	Fiber drums in metal shed	Indefinite
			25			Enclosure (1)

150

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	R16	Toxic	3 lbs	923	Wood shelves in brick bldg.	Indefinite
Lead dioxide (Lead peroxide)	511	Toxic Reactive	200 lbs	286	Metal drums; adequate bldg.	Indefinite
	R16	Toxic Reactive	2 lbs	923	Adequate storage	Indefinite
Lead iodate	526	Toxic	20 lbs	903B	Metal can	Indefinite
Lead maleate, tribasic (Trimal)	11	Ignitable Toxic	5,600 lbs	524	Leverpaks	Indefinite
	20	Ignitable Toxic	1,100 lbs	331 858	Leverpaks	6 months
Lead nitrate	11	Toxic Reactive	3 lbs	304	Bottles	Indefinite
	R16	Toxic Reactive	1 lb	600	Adequate Storage	Indefinite
	526	Toxic Reactive	125 lbs	288 903B	Paper bags	2 years
Lead oxide	R16	Reactive Toxic	1.5 lbs	923	Paper bags	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	526	Reactive Toxic	20 lbs	855 903A 903B	Card-board drums or glass bottles	Indefinite
Lead-beta-resorcylate	11	Toxic Ignitable	6,500 lbs	524	"	Indefinite
Lead-beta-resorcylate	20	Toxic Ignitable	12,000 lbs	331 325 858	Fiber containers	"
Lead salicylate	20	Toxic	12,000 lbs	325 331 858	Fiber containers	
Lead stearate	R16	Toxic	5.4 lbs	600 923	Wood shelves; adequate storage	Indefinite
Lead styphnate (Lead trinitroresorcinate)	511	Ignitable Toxic	1.5 lbs	286	Conductive container in magazine	Indefinite
	526	Ignitable Toxic	4 lbs	Mag. 7XC14	Stored under water	Indefinite
Lead sulfate	11	Toxic	3.75 lbs	304	Glass bottle	Indefinite

3.75

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	R16	Toxic	1 lb	600	Adequate shelter	Indefinite
Magnesium (metal)	526	Ignitable	232 lbs	903A	Metal drums	1 year
Malathion (57%)	11	Toxic	11 gals	117	Bottles	1 year
Maleic acid	R16	- Toxic	13.5 lbs	502 923	Adequate shelter	Indefinite
Maleic anhydride	R16	Toxic	6.6 lbs	925	Adequate shelter	Indefinite
	526	Toxic	2 lbs	855	Glass bottles	Indefinite
Mercuric cyanide	R16	Toxic	2 lbs	600	Glass bottles	Indefinite
Mercuric nitrate	526	Toxic	3 lbs	855	Glass bottles	Indefinite
Mercuric sulfate	11	Toxic	3.25 lbs	304	Glass bottles	Indefinite
	R16	Toxic	5 lbs	600 923	Adequate shelter	Indefinite
Mercuric oxide	R16	Toxic Reactive	3 lbs	600 923	Adequate shelter	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	526	Toxic Reactive	10 lbs	288 855	Glass bottles	Indefinite
Mercurous chloride (Calomel)	R16	Toxic	1.5 lbs	923	Adequate shelter	"
Mercurous nitrate	R16	Toxic	1 lb	600	Adequate shelter	Indefinite
	526	Toxic	3 lbs	855	Adequate shelter	"
Mercury (metal)	096	Toxic	15 lbs	873	Adequate shelter	1 year
	402	Toxic	17 lbs	748	Adequate shelter	1 year
	ME	Toxic	3 lbs	1600	Adequate shelter	Indefinite
	R16	Toxic	42 lbs	547 600 923	Adequate shelter	Indefinite
	303	Toxic	200 lbs	101 102 444 766	Adequate shelter	1 year
Methylal	526	Toxic Reactive	13.3 gals	288 801		1 year

29

Enclosure (1)

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Methyl alcohol	11	Toxic Ignitable	4,235 gals	263	55-gal drums	1 year
	526	Toxic Ignitable	5 gals	288	Bottles	1 year
Methyl aziridinyl phosphine oxide (MAPO)	526	Toxic	2,958 lbs	855 856	Metal or glass container (in freezer)	6 months
Methyl cellosolve acetate	526	Toxic	400 lbs	801	Drums	Indefinite
Methyl centralite	11	Toxic	609 lbs	263 524	Drums	Indefinite
Methyl chloride	R16	Ignitable	44 gals	502 547 600 888	Adequate shelter	Indefinite
Methyl ethyl ketone peroxide	526	Toxic	11 lbs	288 903	Bottles	Indefinite
Methyl methacrylate	R16	Toxic Reactive	8 lbs	600	Adequate shelter	Indefinite
Methylene chloride	2014	Toxic	1,000 lbs	806	Drums	Used continuously
	30221	Toxic	1-2 gals	890	Chemical storage cabinet	1 year or less

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site	
				Bldg No. or other	Kind of Storage Average Storage Time
	303	Toxic	20 gals	101 102	Chemical storage cabinet 1 year
Metriol trinitrate (MTN)	2014	Ignitable	10,000 lbs	676	Steel containers Used continuously
Mixed acid	2014	Corrosive -Reactive	60,000 gals	781	Tanks Used continuously
	R16	Corrosive Reactive	10 gals	502	Adequate shelter Indefinite
Monoethanol amine	526	Corrosive	24 lbs	288	Metal can Indefinite
Monomethylamine	R16	Ignitable	4 lbs	600	Metal can Indefinite
	R16	Ignitable	100 lbs	106E	Metal can Indefinite
alpha-Naphthylamine	R16	Toxic	3.3 lbs	925	Adequate shelter Indefinite
beta-Naphthylamine	R16	Toxic	1.5 lbs	925	Adequate shelter Indefinite
Neopentyl glycol azelate polyester	526	Reactive	2,000 lbs	453	Drums 1 year
Nickel (metal, powder)	R16	Toxic	2 lbs	925	Adequate shelter Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Nickel acetate	526	Toxic	1 lb	855	Bottles	Indefinite
Nickel acid solution	0944	Toxic	1 gal	268	Adequate shelter	1 year
Nickel nitrate	R16	Ignitable	3 lbs	600 923	Adequate Storage	Indefinite
	526	Ignitable	5 lbs	855	Glass bottles	Indefinite
Nitric acid (concd)	ME	Corrosive Reactive Toxic	1 pint	1600	Glass bottles	Indefinite
	R16	Corrosive Reactive Toxic	24 gals	502 555 600	Adequate shelter	Indefinite
	303	Corrosive Reactive Toxic	112 lbs	101 102	Adequate shelter	1 month
Nitrocellulose	2042	Ignitable	360,000 lbs	471	55-gal drums & Leverpaks	1 year
Nitrodiphenylamine (2NDPA)	11	Reactive Toxic	38,109 lbs	524	Drums	Indefinite
	526	Reactive Toxic	3 lbs	855 903B	Card-board containers	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Nitroethane	526	Ignitable	1 gal	288	Bottle	Indefinite
Nitroform (Trinitromethane)	PM	Ignitable	1,050 gals	171	42-gal drums on concrete	Indefinite
Nitroglycerin	2014	Ignitable Toxic	110,000 lbs mfgd/ year; 7,000-9,000 on hand at any one time	709 804 1137	Diluted with solvent; 1,500-lbs capacity stainless desiccators	1 year
Nitroguanidine	202	Ignitable Toxic	7,000 lbs	313 497 1009	Boxes inside adequate shelter; 50-lb Fiberpaks processed & stored in magazines	1 year
Nitromethane	202	Ignitable	6,000 lbs	859	Tanks or drums inside adequate shelter	1 year
Nitrophenol (o-, p-)	R16	Toxic	3.7 lbs	925	Adequate shelter	Indefinite
Nitrosamines	R16	Toxic	1 lb	600	Adequate shelter	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Nitrotoluene	R16	Toxic	5 lbs	923	Adequate shelter	Indefinite
Paraformaldehyde	R16	Ignitable	2 gals	502	Adequate shelter	Indefinite
	526	Ignitable	310 lbs	288 855	Paper bags	Indefinite
1,5-Pentanediol	526		500 lbs	801		1 year
Perchloric acid	303	Reactive	8 lbs	101	Glass bottles	1 year
Phenol	11	Toxic	9 lbs	304	Glass bottles	"
	526	Toxic	2 lbs	856	Glass bottles	Indefinite
N-phenylmorpholine	526	Toxic	100 lbs	212	Drums	1 year
Phosphoric acid	09514	Toxic	6 gals	289	Bottles	1 year
	0943	Toxic	1.5 gals	193	Bottles	1 year
	R16	Toxic	7 gals	502 600	Adequate shelter	Indefinite
	303	Toxic	0.5 gal	102	"	5 years

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Phosphorous (red)	201	Ignitable	5,100 lbs	Mag. 9LT3 Bldg. 730	Sealed in metal containers	2 years 1 mon.
	R16	Ignitable	1.5 lbs	923	Adequate shelter	Indefinite
Phosphorous pentachloride	11	Toxic Reactive	1 lb	304	Bottles	Indefinite
Phosphorous pentoxide	11	Toxic Reactive	6 lbs	304	Bottles	Indefinite
	R16	Toxic Reactive	8 lbs	600 923 925	Adequate shelter	Indefinite
	526	Toxic Reactive	2 lbs	855	Glass bottles	Indefinite
Phosphorous trichloride	R16	Toxic Reactive	5 lbs	555	Glass bottles	Indefinite
Phthalic anhydride	R16	Reactive	12.1 lbs	923 925	Chemical shelters	Indefinite
Polychlorinated biphenyls (PCB) (Askarel fluids)	096	Toxic	8,200 lbs	1440	Transformers	
Potassium bichromate	11	Toxic	19 lbs	304	Glass bottles	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	511	Toxic	1 lb	286	Glass bottle in brick bldg.	Indefinite
	526	Toxic	5 lbs	856	Glass bottles	Indefinite
Potassium chromate	11	Toxic	5 lbs	304	Glass bottles	Indefinite
	R16	Toxic	1.5 lbs	923	Adequate shelter	Indefinite
Potassium cyanide	11	Toxic	7 lbs	304	Adequate shelter	1 year
	R16	Toxic	6 lbs	600, 923	Adequate shelter	Indefinite
Potassium ferrocyanide	526	Toxic Reactive	1 lb	855	Glass bottle	Indefinite
Potassium hydroxide	096	Toxic Reactive	5 lbs	Sewage sites # 1 & 2		30 days
	R16	Toxic Reactive	15 lbs	600	Adequate storage	Indefinite
	303	Toxic	5 lbs	102	Adequate storage	1 year
Potassium permanganate	096	Reactive	600 lbs	Drums in rail-road box car		1 year

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	11	Reactive	10 lbs	304	Bottles	1 year
	511	Reactive	100 lbs	286	Metal drums in brick bldg.	Indefinite
	303	Reactive	1 lb	102	Glass bottles	1 year
	ME	Reactive	1 lb	1600	Bottles	1 year
	R16	Reactive	15 lbs	502 600	Adequate shelter	Indefinite
Propylene glycol	2014	Ignitable	25,000 gals	772	Tanks; diked	Used continuously
Propylene glycol dinitrate	2014	Ignitable Toxic	156,000 gals	1463	Tanks	Used continuously
Pyridine	11	Toxic Reactive	12.9 gals	304	Bottles	Indefinite
	R16	Toxic Reactive	10 gals	502 600 925	Adequate shelter	Indefinite
	303	Toxic Reactive	15 gals	102	Adequate shelter	1 year
	526	Toxic Reactive	466 lbs	801 855	Metal drums	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Quinoline	R16	Toxic	2.2 gals	502 923	Adequate shelter	Indefinite
p-Quinonedioxime (G-M-F)	526	Toxic	30 lbs	903B	Card-board drum	Indefinite
Resorcinol	11	Toxic	1,100 lbs	524	Metal drums	1 years
	R16	Toxic	2.3 lbs	925	Adequate shelter	Indefinite
RDX (Cyclotrimethylenetrinitramine)	526	Ignitable	19,686 lbs	Mag. 9LT3A	Waterproof cardboard drums	1 year
Sebacoyl-1-(2-ethyl) aziridine (BISA) (HX760)	526	Toxic	72 lbs	855	Metal can in freezer	6 months
Selenium (powder)	11	Toxic	1 lb	304	Bottle	1 year
Selenium sulfide (lotion)	ME	Toxic	7 lbs	1600	Bottles	Indefinite
Silver cyanide	R16	Toxic	2 lbs	925	Adequate shelter	Indefinite
Silver nitrate	11	Toxic Reactive	11 lbs	304	Glass bottles	Indefinite
	526	Toxic Reactive	938 lbs	856	Metal drums	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Sodium (metal)	R16	Reactive	9 lbs	925	Chemical storage	Indefinite
Sodium azide	11	Toxic Ignitable	8 lbs	304	Bottles	Indefinite
	R16	Toxic Ignitable	1 lb	600	Adequate shelter	
	526	Toxic Ignitable	8 lbs	855 903B	Paper bag inside wood box	Indefinite
Sodium barbiturate	526	Toxic	1100 lbs	112	Drums	1 year
Sodium bisulfite	R16	Reactive	2 lbs	925	Adequate storage	Indefinite
Sodium borohydride	2014	Ignitable	50 lbs	676	Bags	6 months
Sodium chromate	11	Toxic	2 lbs	304	Bottles	1 year
Sodium cyanide	11	Toxic	3 lbs	304	Bottles	1 year
	R16	Toxic	17 lbs	923	Chemical storage	Indefinite
Sodium dichromate	11	Toxic Reactive	263 lbs	304 524	Glass bottles or drums	1 year

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	511	Toxic Reactive	1 lb	286	Glass jar in brick bldg.	Indefinite
	526	Toxic Reactive	1 lb	856	Glass bottle	Indefinite
Sodium fluoride	11	Toxic	2,605 lbs	304 524	Drums	1 year
	R16	Toxic	8.5 lbs	600 923	Adequate storage	Indefinite
	526	Toxic	86 lbs	288 855	Card-board drum	Indefinite
Sodium hydroxide	09433	Toxic Corrosive	170 lbs	*115	Drums	Used continuously
	096	Toxic Corrosive	8,000 gals (50%)	1107	Drums	30-50 days
	11	Toxic Corrosive	78 lbs (lye)	117	13 oz. containers	1 year
	11	Toxic Corrosive	8,400 lbs	263	Drums	1 year
	11	Toxic Corrosive	45 lbs	304	Bottles	1 year
	203	Toxic Corrosive	5,000 gals (50%)	497	Tanks	1 year

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
	303	Toxic Corrosive	10 lbs	102	Glass bottles	1 year
	526	Toxic Corrosive	20 lbs	856	Plastic container	Indefinite
	R16	Toxic Corrosive	400 lbs	555	5-gal cans	Chemical storage
	R16	Toxic Corrosive	9 lbs	502 600	Chemical Storage	
Sodium hypochlorite	096	Corrosive Reactive	110 gals	1470	Drums	60 days
Sodium methylate	R16	Corrosive	11 lbs	600 923	Chemical storage	Indefinite
Sodium nitrite	11	Toxic	6,531 lbs	304 524	Steel drums	Indefinite
	R16	Toxic	6 lbs	600 923	Adequate storage	Indefinite
Sodium phosphate, dibasic	11	Toxic	2 lbs	304	Bottles	1 year
Sodium sulfide	2014	Reactive	600 lbs	775	Drums	Used continuously
Styrene (phenyl ethylene)	R16	Ignitable	2 lbs	600	Adequate storage	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Sulfuric acid	095 Garage	Reactive	400 gals	290	Battery room	1 year
	096	Reactive	8,000 gals (78%)	1107	Tank	30-50 days
	11	Reactive	243 lbs	304	Carboy	1 year
	ME	Reactive	1 gal	1600	Bottle	Indefinite
	R16	Reactive	25 gals	502 555 600	Adequate storage	Indefinite
	303	Reactive	200 lbs	101 102 766	Bottles	1 year
Telagen-CT	11	Ignitable	715 gals	263	Drums	1 year
Teracol	526		165,150 lbs	453	55-gal drums	1 year
Tetrachloroethylene (Perchloroethylene)	R16	Toxic	2 gals	502	Chemical storage	Indefinite
	526	Toxic	7.9 gals	855 856	5-gal cans	Indefinite
Tetraethylenepentamine	526	Toxic	1 gal	288	Adequate storage	1 year

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Toluene	11	Ignitable	122 gals	304 811	Adequate	1 year storage
	ME	Ignitable	1 gal	1600	Bottles	Indefinite
	303	Ignitable	3 gals	102	"	1 year
	526	Ignitable	348 gals	288 854 855 678 965	55-gal drums	3 weeks
	R16	Ignitable	20 gals	107 502 600	Chemical storage	Indefinite
2,4-Toluenediamine	526	Toxic	100 lbs	212	Card-board drums	2 years
1,1,1-Trichloroethane	303	Toxic	55 gals	881	55-gal drum	1 year
Trichloroethylene	11	Toxic	356,100 lbs	263	55-gal drums on pallets	Indefinite
	20	Toxic	2,750 gals	859	55-gal drums on pallets	1 year
	302	Toxic	55 gals	752	Drums	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Triethanolamine (TEA)	526	Toxic	51 lbs	453 903A	50-lb jug & 1 gal metal can	2 years
Triethylamine	R16	Toxic Ignitable	2 lbs	502	Adequate storage	Indefinite
Triethylene glycol	2014	Ignitable	10,000 lbs	806	Drums	Used continuously
Triethylene glycol dinitrate	2014	Ignitable Toxic	10,000 lbs	676	Steel desiccator	Used continuously
Trifluorotrchloroethane (Freon 113)	526	Toxic	440 lbs	Behind 288	55-gal drum	1 year
Vanadium pentoxide	R16	Toxic	3 lbs	502 600	Adequate storage	Indefinite
Vinyl acetate	R16	Ignitable	6.4 lbs	600 925	Chemical storage	Indefinite
Xylene	11	Ignitable	1 gal	716	Bottle	1 year
	ME	Ignitable	1.25 gals	1600	Bottles	Indefinite
o-Xylene	R16	Ignitable	55 gals	924	Drum on concrete floor	1 year
p-Xylene	R16	Ignitable	28 lbs	600 923	Adequate shelter	Indefinite

LIST OF HAZARDOUS MATERIALS

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Material	Responsible Organization	Type of Hazard	Quantity Procured/Generated Annually	Storage Site		
				Bldg No. or other	Kind of Storage	Average Storage Time
Zinc (metal)	11	Ignitable	36 lbs	304	Drum	1 year
	R16	Ignitable	12 lbs	923 925	Adequate shelter	1 year
Zinc acetate	11	Toxic	11 lbs	304	Adequate shelter	1 year
Zinc bromide	R16	Reactive	1.5 lbs	923	Adequate shelter	Indefinite
Zinc carbonate	526	Toxic	9 lbs	903B	Card-board box	1 year
Zinc chloride	11	Toxic	19.8 lbs	304	Drums	1 year
	R16	Toxic	2.25 lbs	600 923	Adequate shelter	Indefinite
Zinc chromate	5043	Toxic	1 gal	1610	Approved paint cabinet	6 months
Zinc fluoride	R16	Toxic	1.5 lbs	923	Adequate shelter	Indefinite
Zinc nitrate	11	Reactive	9 lbs	304	Bottles	1 year
Zinc sulfate	11	Toxic	3 lbs	304	Bottles	1 year
	R16	Toxic	2.5 lbs	600 925	Adequate shelter	Indefinite

APPENDIX G

Hazardous Wastes Stored at NOS - 1980

HAZARDOUS WASTE INVENTORY

Note: Asterisked (*) items are toxic wastes that do not appear on the EPA "Contaminants for Characteristic of EP Toxicity" list (40 CFR 261.24), but have been determined at NAVORDSTA to be potentially toxic. It is recommended that EP (Extraction Procedure) Toxicity tests be run on them.

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity:	Naval Ordnance Station Indian Head, Maryland	Hazard	Quantity Generated Annually	Storage site			Current Treatment, Disposal, Reclamation	Comments
				Location of Site (Building)	Kind of Storage	Quantity Stored		
Description of Hazardous Waste	Responsible Organization/ Code							
Acetone (solvent)	526	Ignitable	4,000 lbs	855	Slum with sawdust	80 lbs	1 week	Open burning
Acetone (contaminated)	526	Ignitable	2,000 lbs	905	Slum with sawdust	40 lbs	1 week	Open burning
			60 lbs	1182	Slum with sawdust	5 lbs	1 month	Open burning
			500 lbs	849	Slum with sawdust	10 lbs	1 week	Open burning
			100 lbs	1267	Sealed cans	25 lbs	90 days	Open burning
			250 lbs	1285	Steel drums	10 lbs	2 weeks	Open burning
Acetone/Hexane	202	Ignitable	2,500 lbs	outside 859	55-gal drum in diked area	50 gals	2 mos.	Open burning or DPDO
Aluminum (powdered)	526	Ignitable	100 lbs	905	Scrap can	2 lbs	1 week	Open burning
			50 lbs	903	Sealed can	12.5 lbs	90 days	Open burning

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity:	Naval Ordnance Station Indian Head, Maryland	Hazard	Quantity Generated Annually	Storage site			Current Treatment, Disposal Reclamation	Comments
				Location of Site (Building)	Kind of Storage	Quantity Stored		
Description of Hazardous Waste	Responsible Organization/ Code							
Ammonium nitrate	526	Ignitable	1,000 lbs	704	Sealed cans	100 lbs	1 month	Open burning
Ammonium nitrate propellant	526	Ignitable	12 lbs	855	Sealed can	0.25 lb	1 week	Open burning
			300 lbs	704, 543	Sealed can	10 lbs	1 week	Open burning
Ammonium perchlorate	526	Ignitable	1,000 lbs	905, 906	Scrap cans	20 lbs	1 week	Open burning
			1,000 lbs	1277	PE-lined cans	20 lbs	1 week	Open burning
			250 lbs	1267	PE-lined cans	45 lbs	1 week	Open burning
			200 lbs	1265	Scrap cans	4 lbs	1 week	Open burning
*Asbestos (friable)	09 20	Toxic	unknown	Near 873	Plastic bags in Dumpster		90 days	Landfill
*Asbestos (Pyroloc)	201	Toxic	600 gals	Outside	55-gal drums	30 gals	1 month	Landfill
Boron Potassium Nitrate	526	Ignitable	25 lbs	1263	Sealed can	0.5 lb	1 week	Open burning

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Waste	Responsible Organization/ Code	Hazard	Quantity Generated Annually	Location of Site (Building)	Storage site		Average Storage Time	Current Treatment, Disposal Reclamation	Comments
					Kind of Storage	Quantity Stored			
Boron Potassium Nitrate (powder)	526	Ignitable	10 lbs	849	Sealed can	1 lb	1 week	Open burning	
Contaminated solvent	526	Ignitable	2,500 lbs	1277	Slum with sawdust	50 lbs	1 week	Open burning	
*Copper Compounds	526	Toxic	4 lbs	1265	Slum with sawdust	1 lb	90 days	Open burning	
*Delay Compositions (containing B, BaCrO ₄ , KClO ₄ , SiO ₂ , W, etc.)	511	Ignitable Toxic	210 lbs	7XC40	Metal cans in magazine	1200 lbs	90 days	Excess/scrap: open burning at Decontamination Point	
Elba solvent	202	Ignitable	50 gals	Outside 874	55-gal drum	15 gals	2 mos.	Open burning	
*Epoxy, cured	526	Toxic	10 lbs	855	Trash can	0.5 lb	1 week	Open burning	
n-Heptane	526	Ignitable	500 lbs	905	Scrap can	10 lbs	1 week	Open burning	
Heptane (contaminated)	526	Ignitable	240 lbs	1182	Sealed cans	20 lbs	1 month	Open burning	
Hexane (contaminated)	526	Ignitable	120 lbs	1182	Sealed cans	10 lbs	1 month	Open burning	
HMX (cyclotetramethylenetetranitramine)	526	Ignitable	100 lbs	905	Water-wet	2 lbs	1 week	Open burning	

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity: Naval Ordnance Station Indian Head, Maryland	Hazard	Quantity Generated Annually	Storage site				Current Treatment, Disposal Reclamation	Comments	
			Location of Site (Building)	Kind of Storage	Quantity Stored	Average Storage Time			
Description of Hazardous Waste	Responsible Organization/ Code								
HMX/RDX	526	Ignitable	100 lbs	1265	Water- wet	2 lbs	1 week	Open burning	
Ignition mixes (containing B, BaCrO ₄ , Fe ₂ O ₃ , KClO ₄ , SiO ₂ , Ti, Zr, etc.)	511	Ignitable	46 lbs	7XC40	Alcohol- wet, in plastic bottles, in magazine	118 lbs	90 days	Excess/scrap: open burning at Decontamination Point	
Lead nitrate	526	Toxic	5 lbs	905	Sealed can	0.5 lb	1 week	Open burning	
Magnesium (metal, powder)	526	Ignitable	25 lbs	903	Sealed can	6 lbs	90 days	Open burning	
*Methyl aziridinyl phosphine oxide (MAPO)	526	Toxic	250 lbs	1285	Steel drums	10 lbs	2 weeks	Open burning	
Metriol trinitrate (MTN)	526	Ignitable	5 lbs	905	Slum with sawdust	0.25 lb	4 days	Open burning	
Mixed acid (spent)	2014	Corrosive	3,000,000 lbs	781 790	Tank	80,000 lbs	1 week	Returned to vendor for rework	
Mixed acid (dilute)	2014	Corrosive	250,000 lbs	674	Tank	20,000 lbs	2 hours	Neutralized w/ alkali and discharged to drain	
Mixed solvent (NG/TA)	526	Ignitable	26 lbs	1267	Slummed	0.5 lb	1 week	Open burning	

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of
Hazardous Waste

Responsible
Organization/
Code

Hazard

Quantity
Generated
Annually

Location
of Site
(Building)

Storage site

Kind
of
Storage

Quantity
Stored

Average
Storage
Time

Current
Treatment,
Disposal
Reclamation

Comments

Description of Hazardous Waste	Responsible Organization/ Code	Hazard	Quantity Generated Annually	Location of Site (Building)	Storage site Kind of Storage	Quantity Stored	Average Storage Time	Current Treatment, Disposal Reclamation	Comments
Nitrocellulose (NC)	526	Ignitable	100 lbs	1272	Water-wet	2 lbs	1 week	Open burning	
	2013	Ignitable	1,000 lbs	Outside 471	Water-wet in covered container	20 lbs	1 week	Open burning	
Nitroglycerin	2014	Ignitable Toxic	250 lbs	1109	Slummed w/sawdust in covered cans	5 lbs	1 week	Open burning	
Nitroguanidine, High bulk (HBNQ)	202	Ignitable	600 lbs	Outside of bldg on dumpster pad	Covered container or dumpster	25 lbs	2 weeks	Open burning	
*Otto fuel	2014	Toxic	250 lbs	1109	Slummed w/sawdust in covered cans	5 lbs	1 week	Open burning	
Paint thinner	526	Ignitable	500 lbs	855	Slum w/sawdust	10 lbs	1 week	Open burning	
PNC/NC (Plastisol Nitrocellulose/NC)	202	Ignitable	500 lbs	859	Covered container	10 lbs	1 week	Open burning	
Polybutadiene binder	202	Ignitable	520 lbs	905	Scrap can	10 lbs	1 week	Open burning	
			100 lbs	903	Sealed can	25 lbs	90 days	Open burning	

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of
Hazardous Waste

Responsible
Organization/
Code

Hazard

Quantity
Generated
Annually

Location
of Site
(Building)

Storage site

Kind
of
Storage

Quantity
Stored

Average
Storage
Time

Current
Treatment,
Disposal
Reclamation

Comments

Description of Hazardous Waste	Responsible Organization/ Code	Hazard	Quantity Generated Annually	Location of Site (Building)	Storage site Kind of Storage	Quantity Stored	Average Storage Time	Current Treatment, Disposal Reclamation	Comments
*Polyurethane binder	202	Ignitable	520 lbs	905	Sealed can	10 lbs	1 week	Open burning	
			200 lbs	903	Drums	50 lbs	90 days	Open burning	
Primer mixes (with Sb ₂ S ₃)	511	Ignitable	4 lbs	7XC40	Alcohol-wet in plastic bottles in magazine	2 lbs	60 days	Excess/scrap: open burning at Decontamination Point	
Propellant Scrap									
Double base propellant	201	Ignitable	500 lbs	Outside scrap pad	Dumpster	10 lbs	1 week	Open burning	
	2013	Ignitable	1,000 lbs	1228	Covered container	20 lbs	1 week	Open burning	
	2013	Ignitable	8,000 lbs	1298	Covered container	160 lbs	1 week	Open burning	
	2013	Ignitable	16,500 lbs	1300	Covered container	330 lbs	1 week	Open burning	
	2013	Ignitable	8,500 lbs	1295	Covered container	170 lbs	1 week	Open burning	
	526	Ignitable	500 lbs	849	PE-lined cans	10 lbs	1 week	Open burning	
	526	Ignitable	500 lbs	1267	PE-lined cans	10 lbs	1 week	Open burning	

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity: Naval Ordnance Station Indian Head, Maryland		Hazard	Quantity Generated Annually	Storage site			Average Storage Time	Current Treatment, Disposal Reclamation	Comments
Description of Hazardous Waste	Responsible Organization/ Code			Location of Site (Building)	Kind of Storage	Quantity Stored			
* Double base & composite propellants	201	Ignitable	100,000 lbs	Outside scrap pad	Dumpster	Varies	3 days	Open burning	Downloading of overaged grains
	202	Ignitable	1,000 lbs	Outside 560 & 564 on Dumpster pad	Covered container in "Explosive" Dumpster	50 lbs	2 weeks	Open burning	
	202	Ignitable	5,000 lbs	Outside bldg. on Dumpster pad	Covered container in "Explosive" Dumpster	250 lbs	2 weeks	Open burning	
Composite propellant	201	Ignitable	25,000 lbs	1197, 1259	Covered containers	200 lbs	3 days	Open burning	
	201	Ignitable	15,000 lbs	1376	Covered containers	100 lbs	3 days	Open burning	
	201	Ignitable		Outside	Dumpster [700 lbs]		3 days when operating	Hog-out facility; not operating at present	
Cured propellant scrap	526	Ignitable	2,600 lbs	1182	PE-lined cans	50 lbs	1 week	Open burning	
			5,200 lbs	905	PE-lined cans	100 lbs	4 days	Open burning	
S Uncured propellant & PBX	526	Ignitable	5,000 lbs	1277	PE-lined cans	100 lbs	1 week	Open burning	

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity: Naval Ordnance Station Indian Head, Maryland	Hazard	Quantity Generated Annually	Storage site			Current Treatment, Disposal Reclamation	Comments	
			Location of Site (Building)	Kind of Storage	Quantity Stored			Average Storage Time
Description of Hazardous Waste	Responsible Organization/ Code							
		1,200 lbs	905	PE-lined cans	10 lbs	4 days	Open burning	
		260 lbs	1182	PE-lined cans	5 lbs	1 week	Open burning	
Gun propellant scrap	526	Ignitable	250 lbs	1272	PE-lined cans	5 lbs	1 week	Open burning
Propellant scrap	526	Ignitable	500 lbs	1263	PE-lined cans	10 lbs	1 week	Open burning
Propylene glycol dinitrate (PGDN)	2014	Ignitable	250 lbs	1109	Slurmed w/sawdust in covered cans	5 lbs	1 week	Open burning
RDX (cyclotrimethylene- trinitramine)	526	Ignitable	100 lbs	905	Water- wet	2 lbs	1 week	Open burning
RDX/HMX	526	Ignitable	100 lbs	1277	Water- wet in PE-lined cans	2 lbs	1 week	Open burning
Rubber, Polybutadiene	526	Ignitable	200 lbs	903	Drums	50 lbs	90 days	Landfill
Rubber, Polyurethane	526	Ignitable	400 lbs	903	Drums	100 lbs	90 days	Landfill
*Rubber, Isocyanate, unreacted	526	Toxic	600 lbs	1053	Sealed trash cans	50 lbs	1 month	Open burning
*Spent fixer	30	Toxic	2,000 lbs	266	Tank	100 lbs	8 hours	Electrolysis

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity: Naval Ordnance Station
Indian Head, Maryland

Description of Hazardous Waste	Responsible Organization/ Code	Hazard	Quantity Generated Annually	Storage site			Average Storage Time	Current Treatment, Disposal Reclamation	Comments
				Location of Site (Building)	Kind of Storage	Quantity Stored			
Toluene (contaminated)	2014	Ignitable	1,300 lbs	1267	Sealed cans	25 lbs	1 week	Open burning	
			120 lbs	1182	Sealed cans	10 lbs	1 month	Open burning	
			2,000 lbs	905	Slum w/sawdust	40 lbs	1 week	Open burning	
*Toluene diisocyanate (Empty cans)	2014	Toxic	50 cans	855	Sealed	4 cans	1 week	Cans are washed with acetone, open-burned, then cans are discarded	
*Trichloroethylene (propellant-contaminated)	526	Toxic	2,400 lbs	855	Slum w/sawdust	50 lbs	1 week	Open burning	
*Trichloroethylene (dirty degreaser solvent)	201	Toxic	2,000 gals	Outside 859	55-gal drums	40 gals	2 mos.	DPDO	
<u>MISCELLANEOUS</u>									
Contaminated waste (containers, etc.)	Station-wide	Ignitable	700,000 lbs	Various	Open-air	14,000 lbs	2 weeks	Open burning	
*Film, Photographic/X-ray, Processing chemicals (spent fixer, etc.)	0115	Toxic	4,500 lbs	266	Plastic Tank		1 day	Silver recovered; spent fixer disposed of through sewage treatment plant	

HAZARDOUS WASTE INVENTORY

UIC #N00174

Activity:	Naval Ordnance Station Indian Head, Maryland	Hazard	Quantity Generated Annually	Storage site			Average Storage Time	Current Treatment, Disposal Reclamation	Comments
				Location of Site (Building)	Kind of Storage	Quantity Stored			
Description of Hazardous Waste	Responsible Organization/ Code								
*Paint booth sludges	20	Toxic	1,000 lbs	Paint booths	Steel drums		3 mos.	Hauled away by contractor	
*Polychlorinated biphenyls (PCB)	096	Toxic	8,200 lbs	1440	Transformers		Indefinite	Holding for proper disposal by EPA- approved method	
Waste oil	09	Ignitable	2,000 gals	290, 510, 525	Tanks		90 days	Burned as fuel by power house	