NIJAN-SL Meian Island FS 206

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

| In the Matter of the |) | No. 91-153 |
|------------------------------|---|-------------------|
| |) | |
| UNITED STATES NAVY |) | |
| Indian Island Detachment |) | ENFORCEMENT ORDER |
| Jefferson County, Washington |) | |
| |) | |
| Potentially Liable Person |) | |

To: United States Navy Naval Undersea Warfare Engineering Station Keyport, Washington

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27 28

I. Jurisdiction

This Order is issued by the Washington State Department of Ecology pursuant to the authority of RCW 70.105D.050(1).

II. Statement of Facts

Based on currently known information, Ecology makes the following Statement of Facts:

2.1 The Naval Undersea Warfare Engineering Station, Indian Island Detachment, hereinafter referred to as the Facility, is located in Jefferson County, Washington, approximately three miles southeast of Port Townsend, along an extension of the Olympic Peninsula of Washington. The Facility is bordered by Kilisut harbor to the East, Port Townsend Bay to the west and north, and Oak Bay and Portage Canal to the south. The Facility is 5 miles long, occupies 2716 acres and is physically connected to Marrowstone Island (to the East) by a sand bar and a bridge.

-1-

2.2 Area 10, the North End Landfill, is situated on the north end of Indian Island. The area is approximately 5 acres in size and includes the off-shore sediments. The landfill was utilized as the primary landfill for Indian Island from pre-1945 to the mid-1970s. Residential wastes as well as such industrial wastes as lead batteries, asbestos, polyurethanes, waste paint, solvents (thinners and strippers), oil, and zinc plating slag may have been placed into the landfill. Samples taken of water seeps, soil, and sediments in the vicinity of the landfill confirm that groundwater, soil and sediments have been contaminated by leachate from the landfill. These contaminants include lead, petroleum hydrocarbons, 1,1,1-trichloroethane, p-creosol, DDT, DDD, and phthalate esters.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

17

18

20

21

22

23

24

25

26

27 28

2.3 Area 21, Building 86 Fill, is located between Building 86 and Well No. 2 west of County Road on Indian Island. The area was used in the 1940s as a landfill and waste disposal site. Waste oils, solvents, paint, electrical equipment and miscellaneous debris were disposed of at 16 the site. Two drinking water wells, presently unused, are near the site-one within 100 feet, the other within 1500 feet. Soil and water 19 samples from Area 21 indicate that contamination by lead, polyaromatic hydrocarbons (PAH), and acetone has occurred.

2.4 Area 11, Sherman Point, is located on the northwest end of Indian Island. The area was used in the 1940s as a ordnance disposal area where trinitrotoluene and similar compounds were burnt. In addition, 450 drums of a solution of Sulfur Trioxide and Chlorosulfonic Acid were disposed of at this location.

2.5 Area 12, the Griffin Street Ordnance Disposal Area, is located on the east side of Indian Island near the beach at Killisut

-2-

Harbor. The area was used in the late 1940s and early 1950s to burn 5000 rounds of incendiary bombs. An unknown quantity of hazardous waste residues may have been generated from this burning and released into the environment.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

2.6 Area 15, North Slab Storage Area, is located between Buildings 190 and 108 on the west side of Indian Island near Port Townsend Bay. From the 1940s to the 1970s, drums of unidentified liquid wastes, paints, paint residues, and solvents were stored in this area. Releases of hazardous materials to the environment were reported to have occurred.

2.7 Area 18, Net Depot, is located south of Building 77 on the western edge of the facility. The Net Depot is approximately 50,000 square feet in area. It was used for the construction and repair of submarine nets in the 1940s and 1950s. Releases of such hazardous materials as carbon tetrachloride, thinners, and zinc plating wastes are reported to have occurred. Up to 1000 gallons of such wastes may have been released over the years.

2.8 Area 19, Public Works Area, is a three acre site located on the western edge of the island near Port Townsend Harbor. From the 1940s to 1979, this area contained a number of industrial shops. Various hazardous materials such as carbon tetrachloride, methyl ethyl ketone and trichloroethene are reported to have been disposed of on the ground. The volume of contaminants is estimated to have been 4,000 gallons or less.

2.9 Area 20, Lower Ferry Street Bone Yard, is approximately two to three acres in size. Spills of petroleum products, waste oil, and solvents occurred in this Area from the 1940s to the 1970s.

- 3 -

1 2.10 Area 22, Old Bomb Overhaul Area, is located at the south end 2 of Indian Island roughly 1000 feet from Oak Bay. The site was in use 3 from the 1940s to the 1970s. Unknown amounts (estimated at up to five 4 gallons per week) of lead containing waste paint, solvent thinners and 5 carbon tetrachloride were disposed of onto the ground. 6 2.11 The foregoing information is contained in the following 7 documents: 8 (a) SCS Engineers. 1984. " Initial Assessment Study of

Naval Undersea Warfare Engineering Station, Keyport, Washington." 10 Prepared for the Pacific Northwest Branch Office, Western Division, Naval Facilities Engineering Command, Silverdale, Washington.

9

11

16

17

18

19

27 28

12 (b) SCS Engineers. 1987. " Current Situation Report, Naval 13 Undersea Warfare Engineering Station, Keyport and Indian Island, 14 Washington." Prepared for the Pacific Northwest Branch Office, Western 15 Division, Naval Facilities Engineering Command, Silverdale, Washington.

(c) Potential Hazardous Waste Site Preliminary Assessment (EPA Form 2070-12) for Site 54-10 (North End Landfill), Indian Island, Naval Undersea Warfare Engineering Station. 1988. Prepared by Gerald T. Lionelli for Don Morris.

20 (d) Potential Hazardous Waste Site Preliminary Assessment 21 (EPA Form 2070-12) for Site 54-21 (Building 86 Fill), Indian Island, 22 Naval Undersea Warfare Engineering Station. 1988. Prepared by Gerald 23 T. Lionelli for Don Morris.

24 (e) URS Consultants. 1990. "Technical Memorandum 25 summarizing the results of the Remedial Investigation, NUWES Indian 26 Island under Contract Task Order 0011." Prepared by B&V Waste Science

-4-

and Technology Corporation for Engineering Field Activity Northwest, Naval Facilities Command, Silverdale, Washington under Contract No. N622474-89-D-9295.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27 28

III.

Ecology Determinations

3.1 The United States Navy is an "owner or operator" as defined at RCW 70.105D.020(6) of a "facility" as defined in RCW 70.105D.020(3).

3.2 The facility is known as the Naval Undersea Engineering Warfare Station, Indian Island Detachment and is located in Jefferson County, Washington.

3.3 The substances found at the facility as described above are "hazardous substances" as defined at RCW 70.105D.020(5).

3.4 Based on the presence of these hazardous substances at the facility and all factors known to the Department, there is a release or threatened release of hazardous substances from the facility, as defined at RCW 70.105D.020(10).

3.5 By letter dated November 26, 1990, Ecology notified the United States Navy of its status as a "potentially liable person" under RCW 70.105D.040 after notice and opportunity for comment.

3.6 Pursuant to RCW 70.105D.030(1) and 70.105D.050, the Department may require potentially liable persons to investigate or conduct other remedial actions with respect to the release or threatened release of hazardous substances, whenever it believes such action to be in the public interest.

3.7 Based on the foregoing facts, Ecology believes the remedial action required by this Order is in the public interest.

- 5 -

IV. Work to be Performed

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

19

21

22

23

24

25

26

27 28

Based on the foregoing Facts and Determinations, it is hereby ordered that the United States Navy take the following remedial actions.

4.1 The United States Navy will conduct and finance the cost of a Site Hazard Assessment (SHA) and, as necessary, a State Remedial Investigation and Feasibility Study for the Facility including Area 10, Area 11, Area 12, Area 15, Area 18, Area 19, Area 20, Area 21 and Area 22.

4.2 The United States Navy will conduct and finance the implementation of a Cleanup Action Plan (CAP) for the Facility.

4.3 All work performed pursuant to this Order shall be under the direction and supervision of a professional engineer or hydrogeologist, or similar expert, with appropriate training, experience and expertise in hazardous waste site investigation and cleanup.

4.4 The United States Navy shall prepare and transmit the following documents to Ecology for review, comment and approval in accordance with the provisions of this part:

18 Site Hazard Assessment Scope of Work for the Facility a. (Area 10, Area 11, Area 12, Area 15, Area 18, Area 19, Area 20, Area 21 20 and Area 22).

Site Hazard Assessment Management Plans including b. workplan, health and safety plan, sampling and analysis plan, quality assurance plan.

> Site Hazard Assessment Report. c.

> > -6-

26

27 28 d. RI/FS Scope of Work.

RI/FS Management Plans, including work plan, health and e. safety plan, sampling and analysis plan, and public participation plan. f. RI/FS Report. Cleanup Action Management Plans, including a Draft g. Cleanup Action Plan, an Engineering Design Report, Construction Plans and Specifications, Operation and Maintenance Plans, and Compliance Monitoring plans. 4.5 The procedures for review, comment and approval of the documents required by paragraph 4.4 shall be as follows: The United States Navy will initially submit each a. document to Ecology as a "draft document" for review and comment. b. Within thirty (30) days of receipt of the draft document, Ecology will provide the United States Navy with comments. Following receipt of comments on a draft document, the c. United States Navy shall have thirty (30) days to respond to comments and submit a "draft final" to Ecology for approval. d. Within thirty (30) days of receipt of a draft final document, Ecology will notify the United States Navy in writing of Ecology's approval or disapproval of the document. If disapproved, Ecology may revise the draft final e. document for the United States Navy as an approved draft final document. -7f. Upon approval of the draft final document, the document becomes "final" and the terms and schedules therein become incorporated into this Order.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27 28 4.6 The United States Navy shall perform the tasks and submit plans, reports, and other documents as required by the management plans developed under paragraphs 4.4 and 4.5. This Order will fully incorporate the provisions of the management plans developed under paragraphs 4.4 and 4.5. In the event of any inconsistency between this Order and the management plans developed under paragraph 4.4 and 4.5, this Order shall govern.

4.7 All documents submitted pursuant to paragraph 4.4 and 4.5 shall comply with the applicable requirements of chapter 70.105D RCW and chapter 173-340 WAC.

4.8 Within twenty-one (21) days of the effective date of this Order, the United States Navy shall propose to Ecology deadlines for completion of the following preliminary draft documents:

a. Site Hazard Assessment Scope of Work for the Facility (Area 10, Area 11, Area 12, Area 15, Area 18, Area 19, Area 20, Area 21 and Area 22).

b. Site Hazard Assessment Management Plans including workplan, safety and health plan, sampling and analysis plan, quality assurance plan, data management plan, and public participation plan.

c. Site Hazard Assessment Report.

- 8 -

1 4.9 Within twenty-one days (21) of the issuance of each final 2 site hazard assessment report, the United States Navy shall propose 3 deadlines for completion of the following preliminary draft documents: 4 RI/FS Scope of Work. a. 5 RI/FS Management Plans, including work plan, safety and b . 6 health plan, sampling and analysis plan, and public participation plan. 7 c. RI/FS Report. 8 Cleanup Action Plans, including the Draft Cleanup Action d. 9 Plan, and also including a proposed schedule for completion of the 10 engineering design report, the construction plans and specifications, 11 the operation and maintenance plans, and the compliance monitoring plan. 12 4.10 Within twenty-one (21) days of issuance of each Final 13 Cleanup Action Plan, the United States Navy shall propose deadlines for 14 the completion of the following draft documents: 15 a. Engineering Design Report. 16 Construction Plans and Specifications. Ъ. 17 Operation and Maintenance Plans. c. 18 d. Compliance Monitoring Plan. 19 4.11 Within twenty-one (21) days following receipt of the 20 proposed deadlines submitted pursuant to paragraphs 4.8, 4.9 and 4.10, 21 Ecology shall review and provide comments to the United States Navy 22 regarding the proposed deadlines. 23 Within fifteen (15) days following receipt of the comments, 24 the United States Navy shall as appropriate, make revisions and reissue 25 -9-

27 28

26

the proposal for Ecology approval. In the event that the revised proposed deadlines are disapproved, Ecology may revise the proposed deadlines for the United States Navy.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

25

26

27 28 The finalized deadlines shall be incorporated into the appropriate work plans.

V. <u>Terms and Conditions of Order</u>

5.1 <u>Definitions</u>: Unless otherwise specified, the definitions set forth in ch. 70.105D RCW and ch. 173-340 WAC shall control the meanings of the terms used in this Order.

5.2 <u>Public Notice:</u> RCW 70.105D.030(2)(a) requires that, at a minimum, this Order be subject to concurrent public notice. Ecology shall be responsible for providing such public notice and reserves the right to modify or withdraw any provisions of this Order should public comment disclose facts or considerations which indicate to Ecology that the Order is inadequate or improper in any respect.

Remedial Action Costs: The United States Navy shall pay to 17 5.3 18 Ecology costs incurred by Ecology pursuant to this Order. These costs 19 shall include work performed by Ecology or its contractors for 20 investigations, remedial actions, and Order preparation, oversight and 21 administration. Ecology costs shall include costs of direct activities; 22 e.g., employee salary, laboratory costs, travel costs, contractor fees, 23 and employee benefit packages; and agency indirect costs of direct 24 activities. The United States Navy shall pay the required amount within

-10-

1 90 days of receiving from Ecology an itemized statement of costs that 2 includes a summary of costs incurred, a general description of work 3 performed, an identification of involved staff, and the amount of time 4 spent by involved staff members on the project. Failure to pay 5 Ecology's costs within 90 days of receipt of the itemized statement of 6 costs may result in interest charges. 7 5.4 Designated Project Coordinators: 8 The project coordinator for Ecology is: 9 Name: Craig E. Thompson 10 Address: State of Washington 11 Department of Ecology 12 Mail Stop PV-11 13 Olympia, WA 98504-8711 14 The project coordinator for the United States Navy is: 15 Name: Bela Varga 16 Address: United States Navy 17 Naval Facilities Engineering Command 18 Engineering Field Activity, Northwest 19 3505 N.W. Anderson Hill Road 20 P.O. Box 2360 21 Silverdale, WA 98383-2360 22 23 The project coordinator(s) shall be responsible for overseeing the 24 implementation of this Order. To the maximum extent possible, 25 -11-26 27 28

communications between Ecology and the United States Navy, and all documents, including reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Order, shall be directed through the project coordinator(s). Should Ecology or the United States Navy change project coordinator(s), written notification shall be provided to Ecology or the United States Navy at least ten (10) calendar days prior to the change.

1

2

3

4

5

6

7

25

26

27 28

8 5.5 <u>Performance</u>: All work performed pursuant to this Order
9 shall be under the direction and supervision, as necessary, of a
10 professional engineer or hydrogeologist, or similar expert, with
11 appropriate training, experience and expertise in hazardous waste site
12 investigation and cleanup.

13 The United States Navy shall notify Ecology as to the identity of such 14 engineer(s) or hydrogeologist(s), and of any contractors and 15 subcontractors to be used in carrying out the terms of this Order, in 16 advance of their involvement at the Site.

17 Access: Ecology or any Ecology authorized representative 5.6 shall have the authority to enter and freely move about all property at 18 the Site at all reasonable times for the purposes of, inter alia: 19 20 inspecting records, operation logs, and contracts related to the work 21 being performed pursuant to this Order; reviewing the progress in 22 carrying out the terms of this Order; conducting such tests or 23 collecting samples as Ecology or the project coordinator may deem 24 necessary; using a camera, sound recording, or other documentary type

-12-

equipment to record work done pursuant to this Order subject to security regulations; and verifying the data submitted to Ecology by the United States Navy. Ecology shall provide reasonable notice before entering property unless an emergency prevents notice. Ecology shall allow split or replicate samples to be taken by the United States Navy during an inspection unless doing so would interfere with Ecology's sampling. The United States Navy shall allow split or replicate samples to be taken by Ecology and shall provide Ecology twenty (20) days notice before any sampling activity.

5.7 <u>Public Participation:</u> The United States Navy shall prepare a public participation plan for the Site. Ecology shall maintain the responsibility for public participation at the Site.

The United States Navy shall help coordinate and implement public participation for the Site.

5.8 <u>Retention of Records</u>: The United States Navy shall preserve in a readily retrievable fashion, during the pendency of this Order and for ten (10) years from the date of completion of the work performed pursuant to this Order, all records, reports, documents, and underlying data in its possession relevant to this Order. Should any portion of the work performed hereunder be undertaken through contractors or agents of the United States Navy, a record retention requirement meeting the terms of this paragraph shall be required of such contractors and/or agents.

-13-

25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

27 28

26

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27 28

5.9 Dispute Resolution:

The United States Navy may request Ecology to resolve factual or technical disputes which may arise during the implementation of this Order. Such request shall be in writing and directed to the signatory of this Order. Ecology resolution of the dispute shall be binding and final.

The United States Navy is not relieved of any requirement of this Order during the pendency of the dispute and remains responsible for timely compliance with the terms of the Order unless otherwise provided by Ecology in writing.

5.10 <u>Reservation of Rights:</u> Ecology reserves all rights to issue additional orders or take any action authorized by law in the event or upon the discovery of a release or threatened release of hazardous substances not addressed by this Order, upon discovery of any factors not known at the time of issuance of this Order, in order to abate an emergency, or under any other circumstances deemed appropriate by Ecology.

In the event Ecology determines that conditions at the Site are creating or have the potential to create a danger to the health or welfare of the people on the Site or in the surrounding area or to the environment, Ecology may order the United States Navy to stop further implementation of this Order for such period of time as needed to abate the danger.

-14-

5.11 <u>Transference of Property:</u> No voluntary or involuntary conveyance or relinquishment of title, easement, leasehold, or other interest in any portion of the Site shall be consummated by the United States Navy without provision for continued implementation of all requirements of this Order and implementation of any remedial actions found to be necessary as a result of this Order.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27 28 Prior to transfer of any legal or equitable interest the United States Navy may have in the Site or any portions thereof, the United States Navy shall serve a copy of this Order upon any prospective purchaser, lessee, transferee, assignee, or other successor in such interest. At least thirty (30) days prior to finalization of any transfer, the United States Navy shall notify Ecology of the contemplated transfer.

5.12 <u>Compliance With Other Applicable Laws</u>: All actions carried out by the United States Navy pursuant to this Order shall be done in accordance with all applicable federal, state, and local requirements.

VI. <u>Satisfaction of this Order</u>

The provisions of this Order shall be deemed satisfied upon the United States Navy's receipt of written notice from Ecology that the United States Navy has completed the remedial activity required by this Order, as amended by any modifications, and that all other provisions of this Agreed Order have been complied with.

-15-

| 1 | | |
|----|------|--------------------------------------------------------------|
| 2 | | VII. <u>Enforcement</u> |
| 3 | 7.1 | Pursuant to RCW 70.105D.050, this Order may be enforced as |
| 4 | | follows: |
| 5 | | |
| 6 | A. 1 | The Attorney General may bring an action to enforce this |
| 7 | | Order in a state or federal court. |
| 8 | | |
| 9 | В. | The Attorney General may seek, by filing an action, if |
| 10 | | necessary, to recover amounts spent by Ecology for |
| 11 | | investigative and remedial actions and orders related to the |
| 12 | | Site. |
| 13 | | t. L |
| 14 | C. | In the event the United States Navy refuses, without |
| 15 | | sufficient cause, to comply with any term of this Order, the |
| 16 | | United States Navy will be liable for: |
| 17 | | (1) up to three times the amount of any costs incurred by |
| 18 | | the state of Washington as a result of its refusal to |
| 19 | | comply; and |
| 20 | | (2) civil penalties of up to \$25,000 per day for each day |
| 21 | | it refuses to comply. |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | -16- |
| 26 | | - 10 - |
| 27 | | |

•

,

Ć

•

..3

 D.

This Order is not appealable to the Washington Pollution Control Hearings Board. This Order may be reviewed only as provided under RCW 70.105D.060.

Dated this / day of //une, 1991.

David B. Jansen, P.E. Section Manager Site Cleanup Section Toxic Cleanup Program

-17-