

Attachment # 5: OPL May 7, 1997 Oil Spill Response Exercise Report by Meyers and Associates.

OPL
Bellingham, WA
June 10, 1999
DCA99-MP008

Final Report



Olympic Pipe Line Company

Oil Spill Response Exercise

Renton, Washington

Lacey, Washington

Nisqually River

May 7, 1997

Conducted by:

Robert J. Meyers & Associates, Inc.

14423 Cornerstone Village Drive

Houston, Texas 77014

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OPL 1132116

OLYMPIC PIPE LINE CO.
OIL SPILL RESPONSE EXERCISE
FINAL REPORT



Renton, Washington
Lacey, Washington
Nisqually River
May 7, 1997

Conducted by:
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1.0 INTRODUCTION

This report documents an announced oil spill response simulation exercise conducted by Robert J. Meyers & Associates, Inc. (RJM), for the Olympic Pipe Line Company (OPL) Oil Spill Response Team. This exercise was intended to test the response capabilities of Olympic's field response crews and the Renton, Washington Command Center. It was conducted at several deployment sites on the Nisqually River, at OPL offices in Renton, and at a Unified Command Post at the Lacey, Washington Fire Station.

A pre-drill training session was held on May 6. See Appendix C for the agenda and a list of participants.

2.0 OVERVIEW

The scenario was designed to challenge the skills and experience of the Olympic Response Team in managing a response to a major spill involving Olympic's product line. Particular emphasis was placed on implementation of a Unified Command Post, and also on testing the response strategies contained in the Lower Nisqually River Geographic Response Plan (GRP).

The response lasted approximately eight (8) hours and included OPL response crews from the Tacoma and Olympia Areas, spill response contractors from Cowlitz Clean Sweep, Clean Rivers, Clean Sound Cooperative, and OPL support teams in Renton.

On the morning following the drill, a critique session was held at the OPL Renton offices. Input was received from state and federal agencies, OPL responders, response contractors, and members of the RJM team (see Section 6 for specific comments).

The following organizations and agencies participated in the drill in addition to the above listed contractors:

- Washington State Department of Ecology
- United States Environmental Protection Agency
- Washington State Department of Fish and Wildlife
- Pierce County Department of Emergency Management
- United States Fish and Wildlife Service
- Thurston County Local Emergency Planning Committee
- Washington State Utility and Transportation Commission
- Lacey Fire Department
- Washington State Department of Emergency Management
- Fort Lewis Environmental
- United States Department of Transportation, Office of Pipeline Safety

See Appendix D for a complete list of participants and the nature of their participation.

3.0 METHODOLOGY

The simulated event occurred on Wednesday, May 7, at approximately 0700 hours when the Pipeline Leak Detection System (PLDS) at Olympic's Renton Control Center detected an anomaly (the accuracy of the PLDS was tested the day prior to the drill). Response crews dispatched to the leak site confirmed the leak and closed the block valve. State and federal notifications were made, and response contractors mobilized. By 0900 hours, a Unified Command Center was established at the Lacey Fire Station with operational, planning and logistical support provided from Renton. From this point on, all events took place in "real time."

Oranges were dumped in the river at various points to simulate product movement.

Boom was deployed at the Mounts Road site (SNR-9). Teams attempted to deploy boom at Recondo 2 site (SNR-3), but river currents were too high for safe deployment operations to occur. In addition, an Army team from Fort Lewis deployed sorbent booms at the Tank Crossing site (SNR-7). (See Appendix K for maps showing these locations.)

Actual weather and flow rate data was utilized. Most phone calls to regulatory agencies were simulated during the compressed time period from 0700 to 0900. Additional calls were made to the RJM Resource Desk. (See Appendix A and B Exercise Ground Rules and Scenario respectively.)

4.0 OBJECTIVES

The following objectives were established prior to the drill.

Olympic Pipe Line will demonstrate the ability to:

Assemble and mobilize the spill response organization identified in the Response plan. Response teams will be dispatched to allow them to control, contain, and recover product in a timely manner.

Implement and work within a Unified Command structure, as recommended in *Oil Spill Field Operations Guide ICS-OS-420-1*. This will include participation by Federal, State, Local, and Responsible Party Coordinators within the Unified Command Structure.

Operate within the framework of the response management system identified in the OPL Response Plan(s).

Coordinate or direct operations related to the implementation of action plans contained in the respective response/contingency plans developed by the Unified Command.

Consolidate the various concerns and recommendations of the members of Unified Command into joint planning recommendations for specific long-range strategic plans.

Control discharge at the source and contain it at various pre-selected locations for recovery operations.

Recover the discharged product on water (simulated by oranges), by assembling and deploying the on-water recovery resources identified in the response plan.

Document all operational and support aspects of the response and provide detailed records of decisions and actions taken.

All the above objectives were met, with varying degrees of success, during the drill. See Section 6 for a detailed discussion of which objectives were identified as being in need of improvement.

5.0 PREP

The National Preparedness for Response Exercise Program (PREP) is a unified federal effort incorporating the exercise requirements of the U.S. Coast Guard (USCG), the Environmental Protection Agency (EPA), the Research and Special Programs Administration (RSPA), Office of Pipeline Safety (OPS), and the Minerals Management Service (MMS). Adoption of the PREP Guidelines and participation in the PREP will satisfy all OPA 90 mandated federal pollution response exercise requirements.

The following PREP requirements for the Olympic Pipe Line Co. response team were met with this exercise.

- Quarterly QI notifications.
- Semi-Annual Equipment Deployment Exercise
- Annual Spill Management Team Exercise

In addition to the above and the Objectives mentioned in Section 4.0 of this report, Olympic Pipe Line Co. also exercised the following Response Plan Core Components as outlined in the PREP Guidelines (the numbers correspond to Appendix B of PREP Guidelines):

2. Staff Mobilization;
3. Ability to operate within the Response Management System Described in the Plan
4. Discharge Control;
5. Assessment;
6. Containment;
7. Recovery;
8. Protection;

9. Disposal;
10. Communications;
11. Transportation;
14. Procurement; and
15. Documentation.

PREP core components 1, 12, and 13 were not addressed in this exercise.

6.0 EVALUATION

The following comments, observations, and recommendations were made at debrief sessions held on May 8 and at a post-drill evaluation meeting facilitated by Robert J. Meyers & Associates, Inc. and drill participants. (See Appendix D for a sign-in sheet.)

6.1 FIELD DEPLOYMENT

POSITIVE

- Teamwork and site management were excellent. The teams did a good job setting up hot, warm, and cold zones. At Mounts Road, the OPL Supervisor consulted with Cowlitz Clean Sweep and the GRP to determine the best deployment strategy. The benefits of good communications between OPL and the spill contractor were obvious.
- Attention to safety was evident. Safety tailgate meetings were held, and a site safety and health plan was developed (see Appendix F). In addition, the helicopter company was very thorough in delivering safety briefings to passengers.

AREAS FOR IMPROVEMENT

- Communications (cell phones and radios) did not work in some areas. Personnel had to go to a gas station where there was a land line - may need to position someone with a radio on the highway (I-5) to relay messages between field and command center personnel. Acquisition of a portable repeater may be the answer.
- "Recondo-2" location is not very good for deployment. Team could not get boom across the river because the water was moving too fast. The river is also shallow at this location - therefore, it probably would be too shallow were the water slow enough to allow boom deployment. This was also a problem for the Fort Lewis team at the tank crossing.
- Several agency personnel and media were at the Mounts Road site because it was easily assessable. The sole OPL person at this location spent a lot of time going back and forth

across the bridge to talk to them - consideration should be given to have a PIO person there to relieve operations personnel from this responsibility.

- Never received a Site Safety and Health Plan. One was actually at the Mounts Road Bridge location by 1:00 p.m. The only OPL person there was not made aware of this. It took a while to secure the plan's approval and to get it distributed - consideration should be given on how to expedite the process. It was quite good however, that personnel received a "tail gate" safety briefing before the plan arrived on scene.
- The overall emphasis was on containing product. Had the drill been of longer duration, at some point the issues of shoreline cleanup and product disposal would need to have been addressed.

RECOMMENDATIONS

- The pre-designated response locations in the GRP cannot be depended on exclusively. It was a great opportunity to test the GRP. People should be sure to fill out the comment form in the back of the GRP and return it to DOE.
- May want to consider Site 10 as the preferred deployment site. The private farm will let responders in there during an emergency.
- Another way to attack a light oil spill is to use absorbent material. We discussed this but did not use this technique. (Tied up boom's skirt, so easier to fight the current, then lowered the skirt when boom put out).
- River boom in 25 foot lengths would be easier to work with. Also, the AFTech boom should be replaced; it will not hold up well in strong currents and has the wrong type of end connectors.

6.2 UNIFIED COMMAND AT THE LACEY FIRE STATION

POSITIVES

- Personnel in Unified Command worked well together. There was a lot of flexibility. People adapted to the situation. The web site worked well when it was up and running. The web site has great potential (see Appendix E).

AREAS FOR IMPROVEMENT

- At the initial Unified Command meetings, a set of response objectives was not developed. Later in the day, a set of objectives was circulated. (See Appendix I.)
- Unified Command had a difficult time keeping status boards up-to-date - this could have been alleviated somewhat by having some administrative help available.

- There were numerous problems with the command being split between Lacey and Renton, the greatest being in the area of communications. Rather than try to consolidate command half-way through the drill, the decision was made to continue. This created some unique problems that had to be addressed.

RECOMMENDATIONS

- OPL's initial briefing to the Unified Command contained insufficient information. Diligently completing ICS Form 201 in the Initial Action Plan, could help to avoid this problem.

6.3 RENTON COMMAND POST

POSITIVES

- Input from Operations was excellent.
- DOE's input was extremely helpful. Their personnel worked in a very positive manner.
- The Cowlitz Clean Sweep personnel at Renton did an excellent job. Their experience and knowledge went a long way towards making key operations decisions.
- Status boards were filled out and kept up-to-date.

AREAS FOR IMPROVEMENT

- The forms need to be modified. They are not very user friendly and have redundancy.
- Need additional training on positions. People were thrown into positions they were not familiar with and therefore they were not very productive.
- Poor communications made it difficult to prepare an Incident Action Plan. The initial IAP was quite brief (see Appendix G).
- There was minimum communications with air operations or with the helicopter
- There was no security employed at Renton - considerations should be given to assigning someone to this.
- Could not find GRP for South Puget Sound, no maps/charts for Puget Sound.

RECOMMENDATIONS

- Planning was under staffed. They have one of the most important roles. Planning should have been given more help with people not as busy. It would have been better had Planning personnel from Lacey and Renton been at one location.
- All personnel should have additional training on how to properly use and fill out forms.

6.4 GENERAL

During the post-drill discussion session, OPL asked the Washington DOE, and USEPA where they would like to see the Unified Command located. DOE replied that each incident will be different. There are advantages to having some type of presence near the incident, but Renton has the best communications and facilities.

One suggestion was to use Renton initially, and then shift to the field if the situation warrants. This would depend on several factors, such as the size and location of the spill, and the type of product. An additional factor to consider is when the incident shifts from emergency response to cleanup.

The following comments were presented at the debriefing by Robert J. Meyers & Associates. These are in addition to those already discussed above which RJM had also noted.

- Command sites will change due to the product, tier of response, location of spill, etc.
- The Tier II Team (Region Team) was notified. If the incident had escalated, they would have been able to respond in a timely manner. Consideration should be given to bringing in Tier II personnel sooner, especially to assist the Planning Section.
- This was the first time the team worked with forms. Some preliminary training was conducted, but additional practice is needed (other training in positions needed also). The value of using forms, particularly in the early stages of an incident, cannot be overemphasized. Special emphasis needs to be given to Form 202, Response Objectives. A set of objectives were developed later in the drill. (See Appendix I.) Parts of Form 201 were completed (see Appendix H), but they were inadequate.
- Responses to the media, concerned citizens, and local businesses was excellent. All calls were returned in a timely manner. Nobody was left "hanging."
- As noted earlier, the issue of a split command needs to be rectified. Suggest setting up Incident Command at Renton, with a forward command post at the spill site as needed. Forward command posts should be considered in advance for certain areas. The establishment and location of a Unified Command Center will depend on many variables. The key to making UC successful is seamless information transfer. This can best be accomplished by using forms, status boards, and innovative techniques like a spill web site.

- Unified Command meetings addressed containing the free oil, safety issues, and securing the spill source. Dealing with the oiled shoreline, temporary storage, and waste disposal were not considered.
- Recovering product from the shoreline should be included in the Incident Action Plan.
- The initial briefing of the on-scene team could have been better. For example, it is recommended that the following be included:
 - the type of spilled oil and its quantity (state personnel had to ask about this)
 - the spill's classification - that is, whether it was a major, medium, or minor spill
 - how people would communicate with each other (we had to raise this issue.)
 - worksite locations (only SNR 7 and 3 were mentioned)
 - the actions taken/proposed to control the source
 - possible health hazards
- The Operations function was excellent. Obviously extensive training in the past several years has paid off very well.

7.0 SUMMARY

This drill realistically tested the capabilities of Olympic's Response Teams. Thanks to the efforts of Bill Mulkey, Sandy Conlan, and the rest of the OPL team the overall response effort was rapid, enthusiastic, and sincere. Had this been a real spill, OPL's response would have been equal to the task. Genuine efforts were made to correct deficiencies identified during the drill, and areas for future improvement were clearly recognized. Proficiency in oil spill response can only be maintained by continued drills, training, and practice.

APPENDIX A

Ground Rules

1. Even though this is a drill, you must ensure that safety remains a top priority. Do not take any short cuts that might jeopardize yourself, fellow workers, or the public. Use common sense, and be especially attentive to the possibility of slips, trips, and falls around the river banks and equipment deployment areas.
2. The leak will occur at approximately 7:00 AM (see *Scenario*). From 7:00 to 9:00, certain events will take place in a "time compressed" mode to allow for equipment and personnel deployment (see *Bridging Document*). After 9:00, all events will take place in "real time".
3. If you make any outside phone calls, be sure to precede your conversation by saying, "This is a drill." We don't want the word to get out that there really *is* a pipeline leak. At the very least this could cause embarrassment for Olympic, at the worst somebody might panic and get injured. The same goes for any non-participants who may ask what is going on.
4. There are many individuals participating in the drill from federal, state, and local agencies. Some of these people will be *players*, which means that they are going to be acting in the drill exactly as they would act in a real spill event. For example, if a player from the State Fish and Game Department were to tell you to stop deploying boom because you were threatening an endangered fish, you would follow his (her) orders. Players will be wearing GREEN name tags.
5. Other participants in the drill will be acting as *observers*. Observers generally just watch what is going on. They may be taking notes, pictures, and asking the occasional question. There should not be a lot of interaction between Olympic personnel and observers during the drill. Observers will be wearing YELLOW name tags.
6. The third type of participant is the *evaluator*. Evaluators take detailed notes during the drill to be used during the critique session after the drill. It is their job to identify areas where corrective actions are needed. From time-to-time throughout the drill, evaluators may ask you to stop working and ask detailed questions about what you are doing. For example, an evaluator might ask if you have taken combustible gas readings. Evaluators will be wearing BLUE name tags.
7. The final type of participant is the *controller*. Controllers are the people actually running the drill, ensuring that events take place in a realistic time frame. As long as things are running smoothly, controllers remain in the background (except for some possible role playing), and you probably won't even encounter them. However, there may be times when controllers need to take drastic action to ensure that parts of the drill are running in synch with everything else. You should follow controller's instructions as best you can. Controllers will be wearing RED name tags.

8. Just to confuse things, there will be people who may be acting as controllers, evaluators, and players at the same time! If you have any doubt about a person's role in the drill, don't hesitate to *ask* them what hat they are wearing.
9. Unless you are told otherwise by a controller, there will be no artificial changes in weather conditions, wind speed, streamflow rates, tides or currents.
10. Any outside calls not going to a real location (see No. 3 above) should be made to the RJM resource desk at 206-425-7738. Tell the person who answers who you are, who you are calling for, and the purpose of the call.

APPENDIX B

Scenario

On Wednesday Morning, May 7, 1997, at 6:20 AM, a landslide occurred on the north side of the Nisqually River at river milepost 18.5. The landslide stressed Olympic's 14" product line at milepost 155.9, resulting in a crack in a weld. This occurred about 450' from the North bank of the river.

At Olympic's Control Center in Renton, WA, the Pipeline Leak Detection System (PDLS) identified an anomaly in pressure and flow rates. The controller began to trend the loss and made the decision to shut down the line at 7:00 AM. He (she) then notified Olympic personnel in the area to investigate the suspected leak site.

At approximately 7:05 AM a resident of the Nisqually Pines community noticed a strong odor of what she suspected to be gasoline or oil. She called the 800 emergency number on an Olympic line marker just south of the river.

Steps were immediately taken at the Control Center to make additional internal notifications, and all appropriate external notifications to regulators and response contractors (see *Bridging Document*).

APPENDIX C

TRAINING INFORMATION

**Olympic Pipe Line Co.
Pre-Drill Workshop
May 6, 1997**

Time	Topic	Detail
0800-0815	Introductions/ Overview	<ul style="list-style-type: none">• Preview of course• Personnel introductions• Set goals and objectives
0815-0900	Regulatory Review	<ul style="list-style-type: none">• Origins of OPA '90• OPA '90 requirements• Washington State regulations• Other regs: EPA, DOT, OSHA
0900-1000	Olympic's Plan	<ul style="list-style-type: none">• Core Plan• Geographic Plans• Field Document• Exercises
1000-1015	Break	
1015-1200	Incident Command and Unified Command	<ul style="list-style-type: none">• Overview of ICS• Origins• Common responsibilities• Terminology• Sections• Planning cycles• Meetings and briefings• Transition to UCS
1200-1300	Lunch	
1300-1430	Drill Briefing	<ul style="list-style-type: none">• Objectives• Scenario• Ground rules• Role plays• Evaluators• Discussion
1430-1445	Break	
1445-1600	Operations and Planning Considerations	<ul style="list-style-type: none">• Field Operations Guide ICS 420-1• Forms• Status Boards• Incident Action Plan
1600-1700	Response Strategies and Techniques	<ul style="list-style-type: none">• Control, containment and collection• Booming strategies• Small boat and site safety

APPENDIX C - Continued
 Robert J. Meyers & Associates, Inc.
 Houston, Texas

SIGN-IN SHEET

COMPANY: OLYMPIC PIPE LINE
 TOPIC: PRE-DRILL TRAINING
 INSTRUCTORS: RJM, WSW, JOB, GNY
 DATE: 5-6-97

PLEASE PRINT SIGNATURE

PRINT NAME	NAME
1. DIANE JENSEN	16. <i>D.J.</i>
2. DOUGLAS BEN	17. <i>Douglas Ben</i>
3. <i>Karen Green</i>	18. <i>Karen Green</i>
4. Brian M Duran	19. <i>Brian M Duran</i>
5. Ron Greese	20. <i>Ron Greese</i>
6. R.M. GREENIDGE	21. <i>R.M. Greenidge</i>
7. J.L. CARLO	22. <i>J.L. Carlo</i>
8. D.L. LUCHI	23. <i>D.L. Luchi</i>
9. H.H. White	24. <i>H.H. White</i>
10. RG BURNETT	25. <i>RG Burnett</i>
11. MIKE BECHTOLD	26. <i>Mike Bechtold</i>
12. WILLIAM MULKROY	27. <i>William Mulkroy</i>
13.	28.
14.	29.
15.	30.

DATE: 5-6-97

RJM INSTRUCTOR'S SIGNATURE: *William Mulkroy*

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APPENDIX C - Continued
 Robert J. Meyers & Associates, Inc.
 Houston, Texas

SIGN-IN SHEET

COMPANY: OLYMPIC PIPE LINE CO.
 TOPIC: PRE-DRILL TRAINING
 INSTRUCTORS: RJM, WSW, GNY, JOB
 DATE: 5-6-97

PLEASE PRINT SIGNATURE

PRINT NAME	SIGNATURE
1. RON BRENTSON	16. <i>[Signature]</i>
2. Dave Johnson	17. <i>[Signature]</i>
3. DON GREGOR	18. <i>[Signature]</i>
4. Ken Huff	19. <i>[Signature]</i>
5. Jim Fealey	20. <i>[Signature]</i>
6. Al White	21. <i>[Signature]</i>
7. STEVEN REICHMUTH	22. <i>[Signature]</i>
8. Sam Gallant	23. <i>[Signature]</i>
9. R. J. Klassen	24. <i>[Signature]</i>
10. C Hammett	25. <i>[Signature]</i>
11.	26.
12.	27.
13.	28.
14.	29.
15.	30.

DATE: 5-6-97

RJM INSTRUCTOR'S SIGNATURE: *[Signature]*

OPL 1132132

APPENDIX D

O = OBSERVER
 R = ROLE PLAYER
 E = EVALUATOR

Name	ORG	
MARK LAYMAN	WDOE	R (OSC)
RON HOLCOMB	ECOLOGY	E (media)
Brett Manning	Ecology	R
JEFFRY RODIN	U.S. EPA	O
PHIL HAYNES	US EPA	O
Kevin Brown	Cowlitz Clean Sweep	R (ccs crews) Asst
Barry Troutman	WDFW	R
BILL LOKEY	Pierce Co DEM	O
Richard Schroedel	Pierce Co. DEM	O
Denise Baker	US FWS	R
Louise Vicencio	USFWS/NISQUALLY NW	R
Tom Cune	WSP	R
Frank Hamilton	T.C. L.E.P.C.	O
Steve Rieger	Wash. Util + Transp. Comm.	O
DAN BRACEY	LACEY FIRE	R
ADAM JUNE	LACEY FIRE	R
Darren Bramm	Lacey Fire	R
A.J. PAULSON	LACEY FIRE	R
KEN WOLF	WA STATE DEM	O
Diane Jensen	OPL	R
Jim Oberlander	WDOE	R
DOUG BEN	OPL	
AL WHITE	OPL	
Diane Obergall	Thurston County Commissioner	O
Jim Traphotner	OPL	O
Jana D. Nelson	Ft. Lewis ENV.	R
Richard M. Gillespie	"	R
Paul Heimowitz	WDOE	R
Jim Hultgrien	Fly Wright Helicopters	R
DAVID C. HODSEBOM	FT LEWIS ENV	R
Karen Green	OPL	R
Toni Hundley	US DOT	E

SPILL REPOSE DRILL HOME PAGE



(Still under Construction)

- **KEEP DETAILED LISTING OF ALL ACTIONS AND CONTACTS MADE...**

Use an Event Entry Form or view the Current Log

- **Table of Contents**

Table of Contents for this Spill Response Drill *Experimental* Web Site. Incident Command Structure, phone numbers, fax numbers, *toxts*, maps, hyperlinks to government agencies and more... (well, eventually...)

Spill Response. . . . Remember: SAFETY FIRST! ! ! Product recovery is not as important as human life. use UNIFIED COMMAND!!!! to NOTIFY!!! PLAN!!! MOBILIZE!!! CONTAIN! RECOVER!!! DOCUMENT!!!

Email me immediately to have new features added or if you have any difficulties with this site...

Send Comments and Suggestions for

Spill Response Drill Website to LittlePear@aol.com



SPILL RESPONSE DRILL

ACTIVITY LOG

You MUST Force "reloads" of this screen to obtain the latest updates!

- Table of Contents

Table of Contents for this Spill Response Drill *Experimental* Web Site

07:08 [LIAS] Notified Incident Commander

07:08 [LIAS] Tacoma/Olympia area Field Responders dispatched to the Nisqually River Block Valve

[LIAS] Notified Information Officer

[LIAS] Notified Safety Officer, Karen Grein

[LIAS] Confirmation call to SW Regional Office by Ron Brentson

07:10 [OPER] Sam Gallant notified NW Metal Fab

07:10 [OPER] Notified Ops Chief, Craig Hammett

07:15 [LOGI] Support Director, Jim Fraley notified CCS

07:15 [COMM] Notified State, Thurston and Pierce County DEM.

07:15 [INFO] Notified NRC

07:30 [LOGI] Contacted FLY WRIGHT HELICOPTER SERVICE Estimated time of arrival 08:15. Pilot will contact Doug Beu.

07:30 [LOGI] Contacted Mid-Mountain. Dispatching Track Hoe, D-6 and 3 Dump Trucks. ETA 9:30

07:40 [OPER] Ray Barnes and Rob Nickels arrive on site. Leak confirmed south of BV. Product is pooling in large areas on ground and going into the Nisqually River. BV is being closed.

07:50 [OPER] BV Closed.

08:00 [LOGI] CCS enroute. Bringing 2800' 18" boom; 45' response trailer; 2 14' boats; 1-1 ton truck; 1 4x4 truck; 1 passenger van; 1 gator; 2 5th wheel tractors.

08:10 [INFO] All state and federal agencies have been notified of incident and location of Unified Command

08:25 [INFO] Bill contacted Safety Officer, Karen Grein. Instructed her to go to UC.

08:30 [OPER] Fly Wright Helicopter Service on site. Doug Beu will conduct an overflight at 09:00.

08:30 NWMF cancelled.

08:45 River flowing @ 5 - 7 mph

08:45 [OPER] CCS arrived at UC

08:50 [OPER] CCS (Owen Scott and crew) arrive at Mounts Road (SNR-9). In the process of deploying boom. Contacted Ron Greenidge.

08:55 [OPER] Leading edge of spill @ SNR-3. Boom not deployed due to river flow.

09:35 Approximately 350 Bbls. high sulfur diesel. Weather conditions Sunny, 60 degrees, calm wind.

10:10 [COMM] Unicator update with Renton ICS and UCS in progress.

10:15 Clean Sound enroute to pickup Site Safety Plan from UCS.
10:30 [PLAN] INITIAL INCIDENT ACTION PLAN - 2 hr. transition
11:00 [COMM] Log jam at river MP 4.3 collecting spill - per Doug Beu from overflight.
11:00 CCS deploying boom at SNR-9.
11:25 Equipment List(ICS 201 8/95, Page 4 of 4) as of 10:00
11:37 Boom set at Mounts Road, dropping skirt. Product has not arrived yet.
11:40 Boom deployed at SNR-9 - commencement boom completely deployed at SNR-9.
11:50 Product approaching SNR-9.
11:50 [FINA] AFE faxed to Frank for approval.
12:00 [PLAN] Received approved AFE faxed back from Frank.
12:14 [OPER] Informed by Doug Beu that Safety making flyover now. Karen should hand out site safety plans at each area. She's looking for log jams and looking at boom sites closer to the Sound for accessibility.

12:16 [COMM] Next OSC meeting planned for 14:00
12:20 Phone NRC with updated spill volume. Original volume was 150-200 Bbls., update volume approx 350 bbls.
13:00 [COMM] Frank transferred Incident Command/Qualified Individual to Doug Beu.
13:00 [PLAN] PLANNING still has not heard back regarding trajectory and tidal influence times. Nor have they heard back from Environmental Unit (Meyers) regarding Nisqually Tribe/Alder DAM agreement.

13:25 [OPER] James Hacker, DOT requested the following from Doug Beu:

1. Past & Present Cathodic
2. One Call System Logs
3. Control Center Alarm Logs
4. Operating Pressure
5. Operation Manual
6. Spill Response Manual
7. Save section cut out from break

13:30 Lt. Com. Wilcox (USCG) Oil headed towards bay.
13:40 [COMM] Doug notified Brian to obtain security for Renton and for field locations.
14:20 [OPER] Everything is cleaned up at Mounts Road. Ron Greenidge was the last person out.
14:20 [COMM] ICS201 8/95 Item 6 Summary of Current Actions

Return to top of page

Email me immediately to have new features added or if you have any difficulties with this site...
Send Comments and Suggestions for
Spill Response Drill Website to LittlePear@aol.com

REFERENCES - Spill Response Drill

Table of Contents

The next paragraph contains links to references included in this document as well as links to other related pages. Be sure to **BOOKMARK** this site before you jump to a site that isn't on this Spill Reponse Drill web. The information is divided into the following categories:

- **Incident Command System**
 - **Drill Rules & Guidelines**
 - **Forms**
 - **Maps**
 - **Government Agencies, Contractors, Volunteer, etc. On-Site Contact Numbers**
 - **What else would you like to see here? Please let me know**
-

Incident Command System

- **The Incident Command Structure Chart**
(not yet...)

URL: <http://members.aol.com/lastcall7/icschrt.htm>

Summary: This is the current Incident Command Structure Chart which will be updated as the drill progresses.

- **ICS Phone/FAX**

URL: <http://members.aol.com/lastcall7/icslist.htm>

Summary: Listing of current contact numbers for each Incident Commander; Health/Safety, Liaison, and Information Officers; and Operations, Planning/Control, Logistics/Supply, and Finance Chiefs

*
*



The sites on this page are always under construction. Check back frequently!

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Drill Rules & Guidelines

- **Ground Rules**

URL: <http://members.aol.com/lastcall7/grndrulz.htm>

Summary: Ground Rules for Drill as provided.

*
*



The sites on this page are always under construction. Check back frequently!

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Forms

- **ICS 212 (oil) (Resources At Risk Summary Items 4 & 5)**

URL: <http://members.aol.com/lastcall7/ics212.htm>

- **ICS 201 8/95, Page 4 of 4 Equipment list as of 10:00**

- **ICS201 8/95 Item 6 Summary of Current Actions**
-

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Maps

- **Lower Nisqually River Reference Map (Lower Nisqually River Geographic Response Plan)**
URL: <http://members.aol.com/lastcall7/lownisq.htm>
Summary: pg. 3-1 of the Lower Nisqually River Geographic Response Plan prepared for the Northwest Area Committee by a joint committee comprised of local, state and federal government, tribal and industry representatives. Published by the Washington State Department of Ecology.
- **McKenna/Yelm Proposed Booming & Collection Strategies Map (Lower Nisqually River Geographic Response Plan)**
URL: <http://members.aol.com/lastcall7/mckenna.htm>
Summary: pg. 4-5 of the Lower Nisqually River Geographic Response Plan prepared for the Northwest Area Committee by a joint committee comprised of local, state and federal government, tribal and industry representatives. Published by the Washington State Department of Ecology.
- **Recondo 2/Centralia Power & Light Map (Proposed Booming & Collection Strategies)**
URL: <http://members.aol.com/lastcall7/reconmap.htm>
Summary: pg. 4-9 of the Lower Nisqually River Geographic Response Plan prepared for the Northwest Area Committee by a joint committee comprised of local, state and federal government, tribal and industry representatives. Published by the Washington State Department of Ecology.
- **Nisqually Fish Hatchery Map Proposed Booming & Collection Strategies**
URL: <http://members.aol.com/lastcall7/fishhmap.htm>
Summary: pg. 4-11 of the Lower Nisqually River Geographic Response Plan prepared for the Northwest Area Committee by a joint committee comprised of local, state and federal government, tribal and industry representatives. Published by the Washington State Department of Ecology.

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Government Agencies, Contractors, Volunteer, etc. On-Site Contact Numbers

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Revised: April 27, 1997.

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14:20 ICS201 8/95 Item 6 Summary of Current Actions

09:30 Incident Action Plan

1. Initiate Group SNR3-SNR7
2. Establish Command
3. Coordinate Renton Command Center with Lacey Command Post

10:57 Incident Action Plan

1. Work to stop leak and clean soil - Repair pipe
2. OPL crews will move to investigate opinions 2-8
3. Cowlitz Clean sweep will deploy boom at strategy 9 and then look to implement strategies 10, 11, 15, 16
4. Clean Sound skimmers will at SNR12
5. Safety Review
6. Command Post Move 11:30 13:00 14:00

17:30 Incident Action Plan

1. Continue soil cleanup
2. Pipe repair
3. Continue oil recovery at site 9
4. Continue to collect oil at site 10*
5. Continue to monitor river mouth for oil (overflights)
6. Continue to stage skimmers at site 12 Ready for oil
7. Continue with current safety plan - include night safety.

*Deploy sites 11, 15, 16 when tide comes in.

Go Back or return to Home Page

10:30PLANNING

- INITIAL INCIDENT ACTION PLAN - 2 HR. TRANSITION

1. Deploy GRP Strategies 2-10 in downstream order; also, contact Planning if infeasible before passing over; SP-16 (moved into South Puget Sound Response Plan....)
2. State 2 skimmers @ Nisqually reach for potential use at SNR-12
3. Conduct oil surveillance overflight to determine leading edge and obstructions (eg. log jams)
4. Instituted 2000' flight restriction zone (bald eagles) vertical and horizontal for river mile 5 and north of I-5.
5. Contact Alder DAM (Tacoma City Light) to determine capabilities and effects for reducing flow. How long to shut down. How long 'til river subsides at spill site. Contact Environmental Unit to decide what then to officially request (Meyers). Would Nisqually Tribe agree? -- Feelings: probably not. (Side note: would they have been more involved with us in a real incident?)
6. Determine oil trajectory and identify when diesel would reach tidal influence. Analyze tides and then determine movement of diesel within delta.

-Paul Heimowitz WDOE

APPENDIX F

**COWLITZ CLEAN SWEEP INC.
SAFETY MEETING
REPORT FORM**

OPIC: Safety Meeting ... MEETING DATE: 5-7-97

CONTRACTOR: Olympic pile line Drill TRAINED:

BRIEF SUMMARY OF MEETING:
Life Vest Hard Hats Safety Glasses Slips Trips Falls
Breathing Safety work conditions.

IF NECESSARY, ATTACH ADDITIONAL NOTES

ATTENDEES:

PRINT NAME	SIGNATURE
Pete PETE Wallis	<i>Pete Wallis</i>
Steve Gahr	<i>Steve Gahr</i>
Kurt Bauwelle	<i>Kurt Bauwelle</i>
Jim Horn	<i>Jim Horn</i>
Paul Hoxey	<i>Paul Hoxey</i>
MARK Berndt	<i>Mark Berndt</i>
BOB MATSON	<i>Bob Matson</i>
RON Schoelch	<i>Ron Schoelch</i>
Owen Scott	<i>Owen Scott</i>
Mon ...	<i>Mon ...</i>
Butler	<i>Butler</i>
Fred Cannon	<i>Fred Cannon</i>
	<i>Ron Greenidge O.P.M.</i>
	<i>Brian Way Glenn Rovers</i>
	<i>Harold ...</i>
	<i>Jim ...</i>
	<i>Jim ...</i>

APPENDIX G

Subj: 1057 IAP
Date: 97-05-07 14:00:16 EDT
From: LittlePear
To: ANCJV

1 Source stop leak pipe/soil

2 Move to lower OPL river
try continue strategies between 2 & 8

3 Cowitz Clean Sweep
Move to 10 & 11 & 15 & 16

4 Clean sound at SNR12
5 Safety Review

APPENDIX H

Subj: FORM ICS 201 8/95, Item 6
Date: 97-05-07 16:15:09 EDT
From: LittlePear
To: ANCJV

ICS 201 8/95, Page 2 of 4
13:00

#6. Summary of Current Actions

- Crews work to stop leakage from pipeline and make repairs.
- Start to clean soil at spill site - Olympic
- Need to find other work for our crew on military base. Strategy?? 2-8 (minus 3)
- Look at additional strategies for Sound (if necessary).
- Look at tidal and trajectories.
- We will not look at cleaning stream bank.
- Disposal operations well planned - need to confirm.
- Touch base with Western Region Team
- Sound skimmers on the way.

APPENDIX I

RESPONSE OBJECTIVES - ICS 202

4. Operational Period OPL – Nisqually River Spill

5. Overall Incident OPL – Nisqually River Spill

6. Objectives for specified Operational Command & Control Containment

- Source
- River Point 9
- Other back up points

Assessment

- Volume
- Movement
- Environmental Impacts

Recovery

- From Soil & Spill Site
- River Point 9
- SNR 12

Disposal

- Soil from leak site
- Absorbents
- Oil/water recovered

Demobilization – later

Post incident debrief – later

7. Safety Message for specified Operational Consult Safety

- Note special concerns at each site
- Pre-op safety meeting

8. Weather: See Attached Weather Outstanding

9. Tides/Currents: See Attached Tide/Current -Low Tide 12:30

APPENDIX J



Waiting to board helicopter at Lacey Fire Station, pilot gave all passengers a thorough safety briefing.

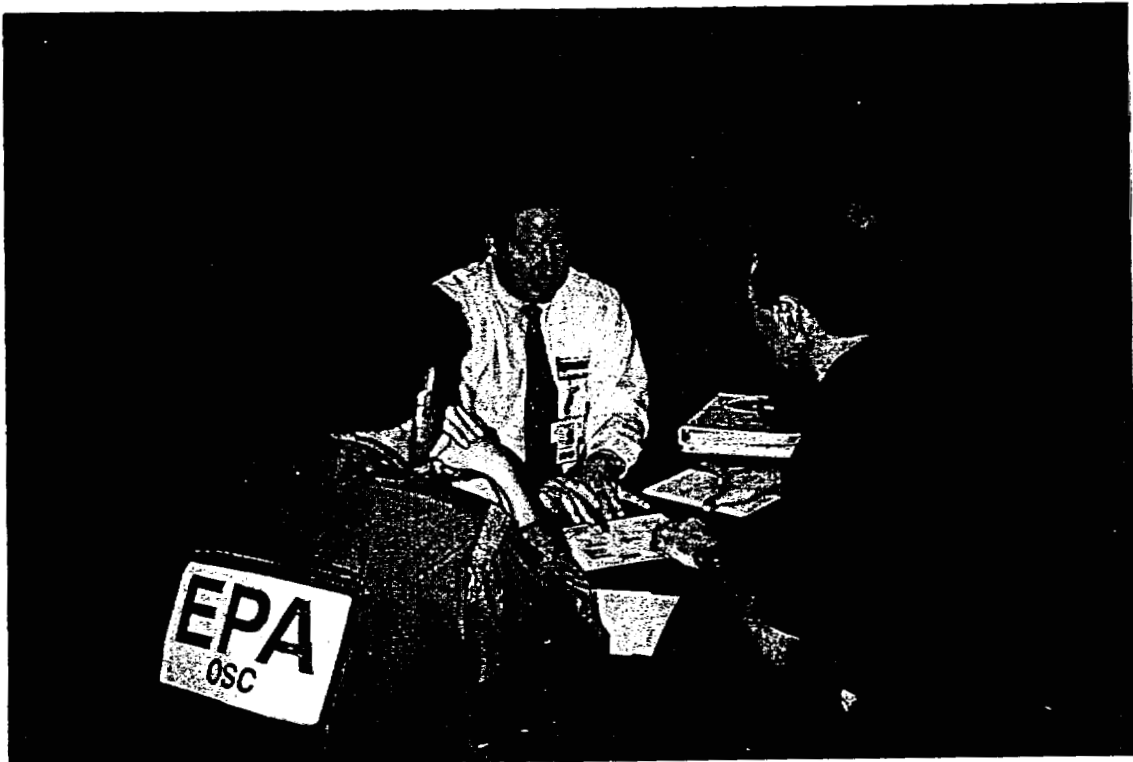


Shoreline debris and obstacles at Mounts Road deployment site.

APPENDIX J - Continued

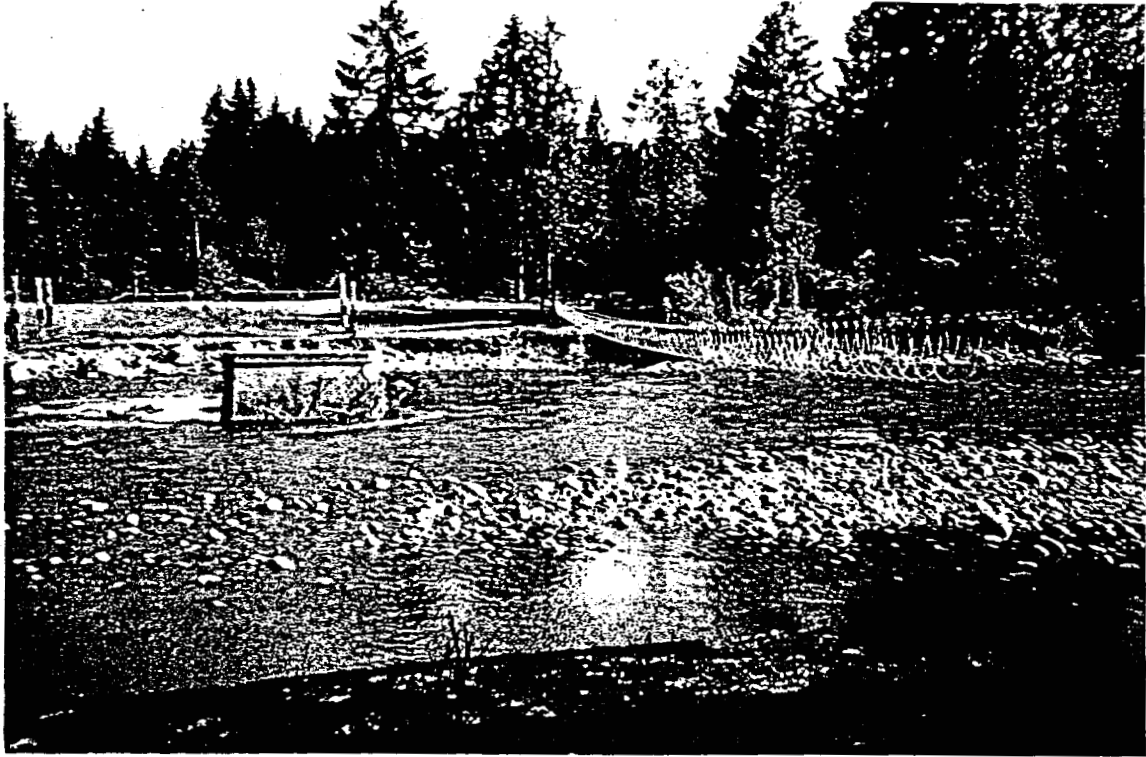


Initial boom deployment at Mounts Road.



United Command meeting.

APPENDIX J - Continued

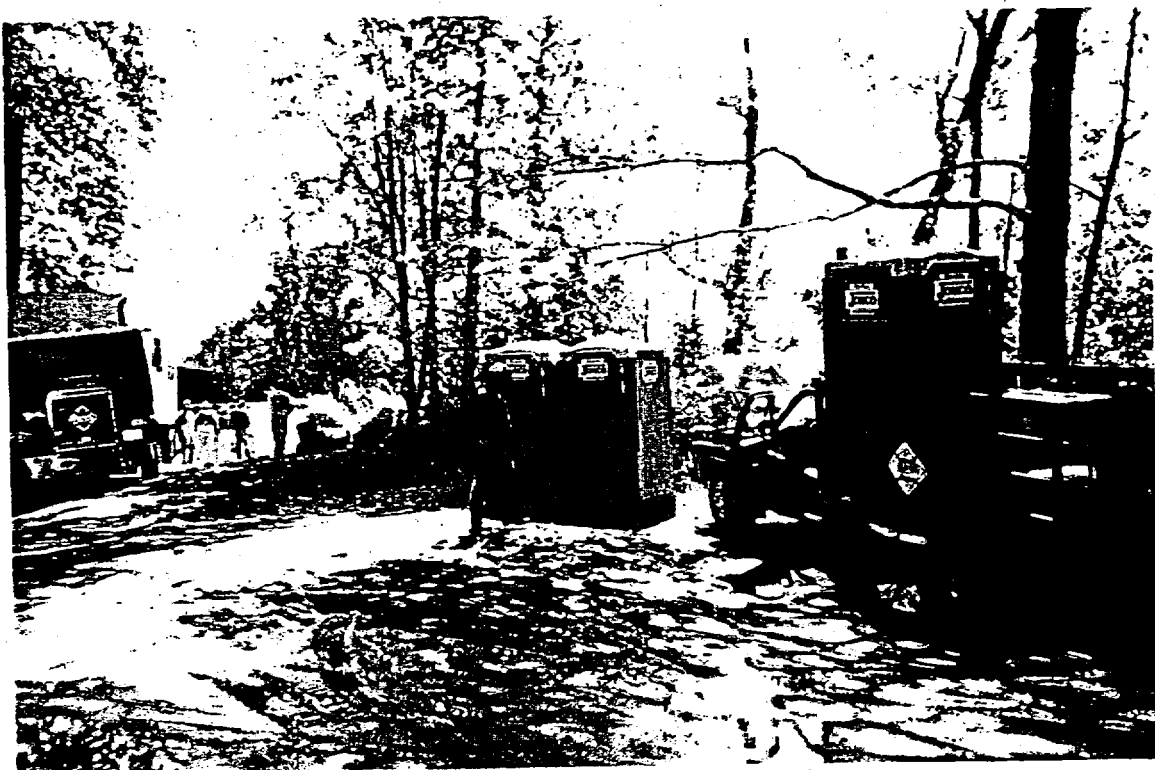


Recondo 2 had good access, but the current was too swift to deploy.



The Renton Command Center.

APPENDIX J - Continued

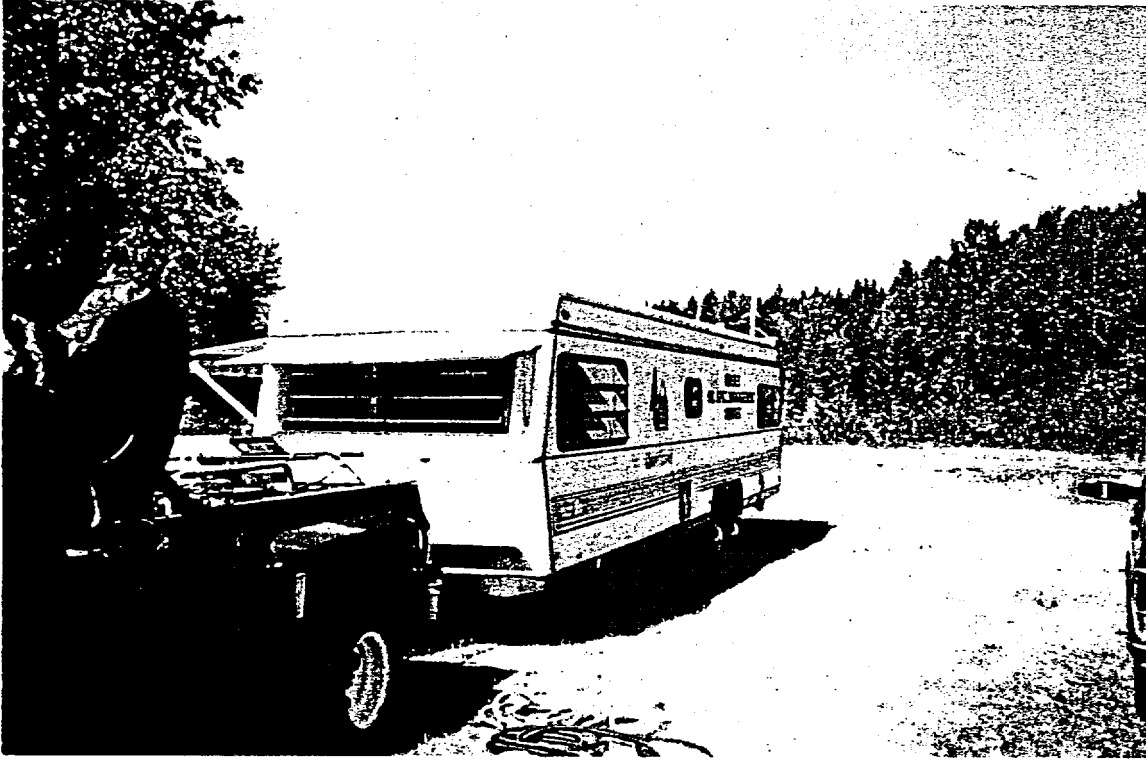


Spill contractor came well supplied.



Clean Rivers Cooperative at Mounts Road.

APPENDIX J - Continued



Clean Sound's mobile response trailer.

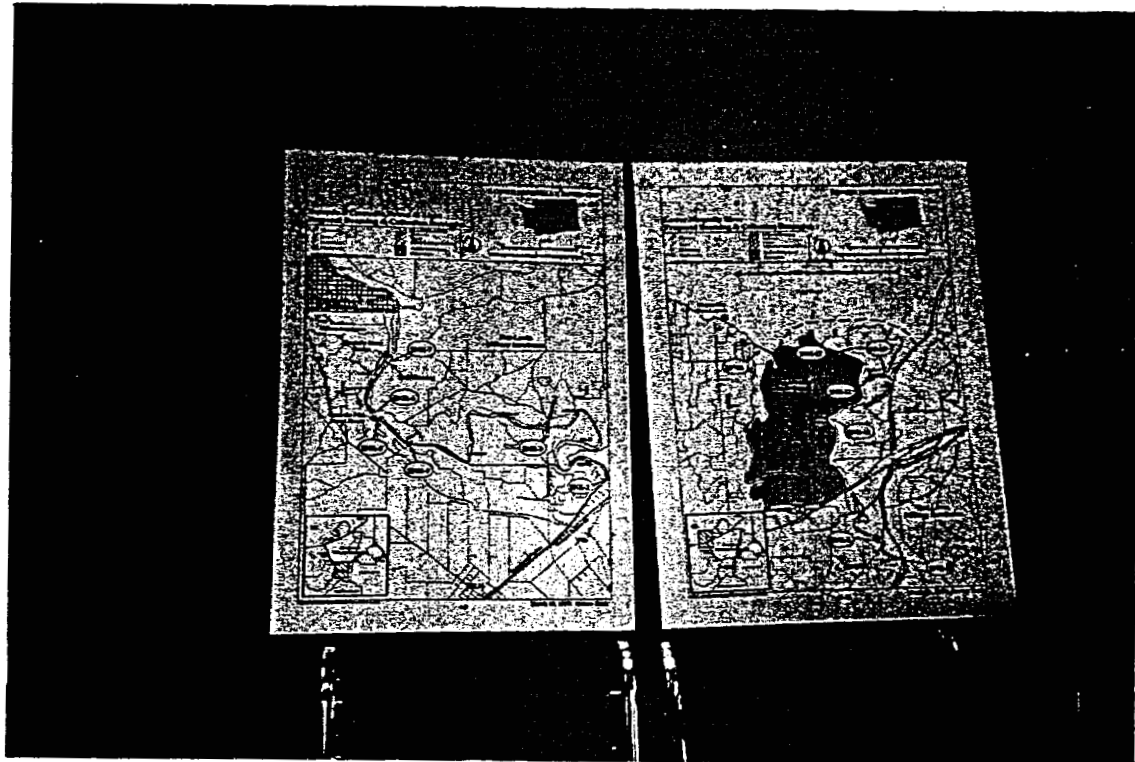


Recondo 2 does have plenty of room for equipment staging.

APPENDIX J - Continued

Summary of Current Actions	
Project/Status	0930 IAP
	1) INITIATE GRP SNR 3 - SNR 7
	2) REESTABLISH COMMAND
	3) COORDINATE RENTON COMMAND CENTER WITH LACEY BEST COMMAND PC
	1037 IAP
	4) GRP SNR 3 - SNR 7
	5) GRP SNR 3 - SNR 7
	6) GRP SNR 3 - SNR 7
	7) GRP SNR 3 - SNR 7
	8) GRP SNR 3 - SNR 7

A status board at the Unified Command Center.



Enlarged maps from the GRP.

APPENDIX K

MAPS

Map 1 shows the location of the Lacey Fire Department (Unified Command Post).

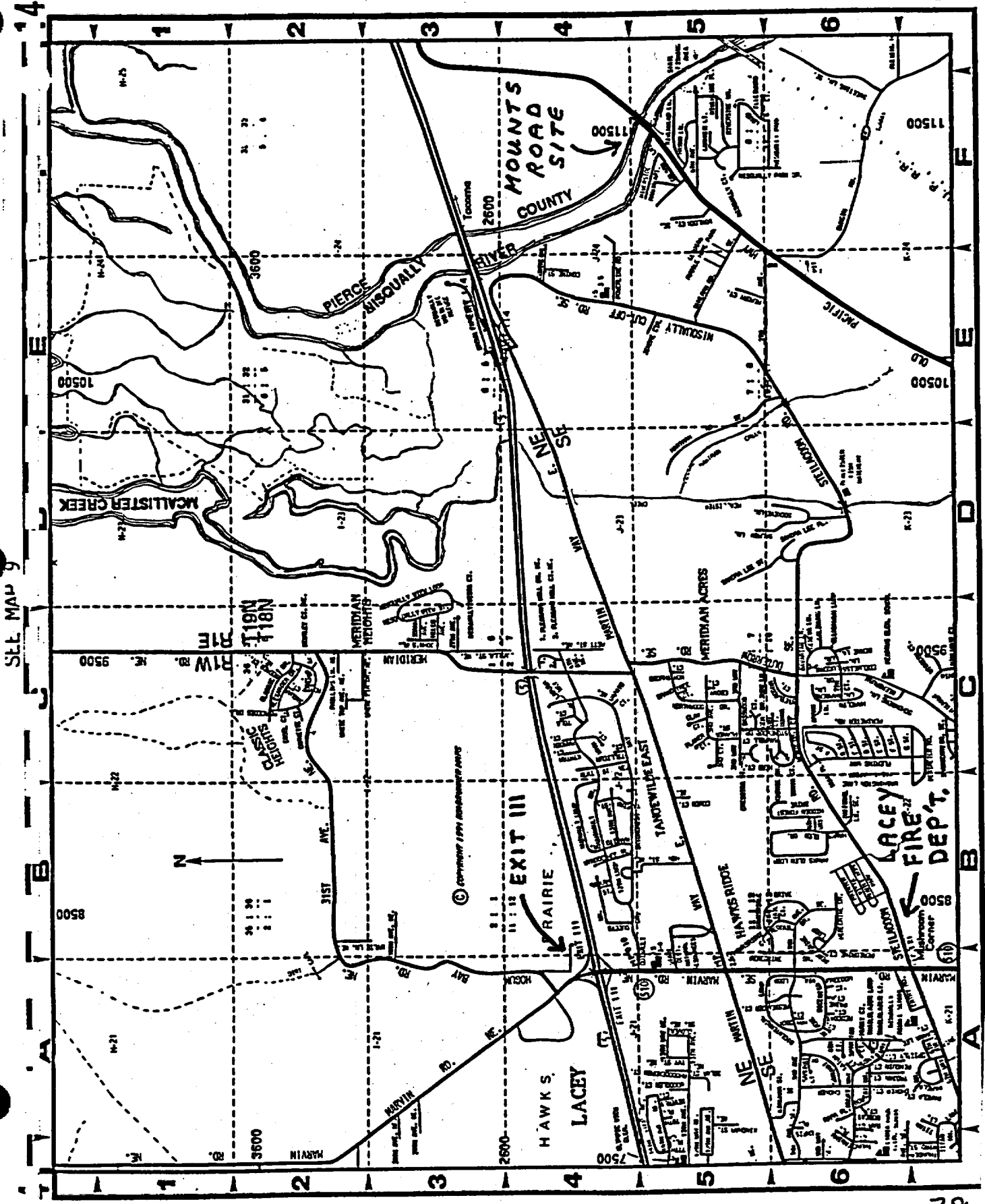
Map 2 shows the Mounts Road deployment site.

Map 3 shows the Recondo 2 deployment site on Fort Lewis.

Map 4 shows the Olympic Pipe Line Co. offices in Renton, Washington.

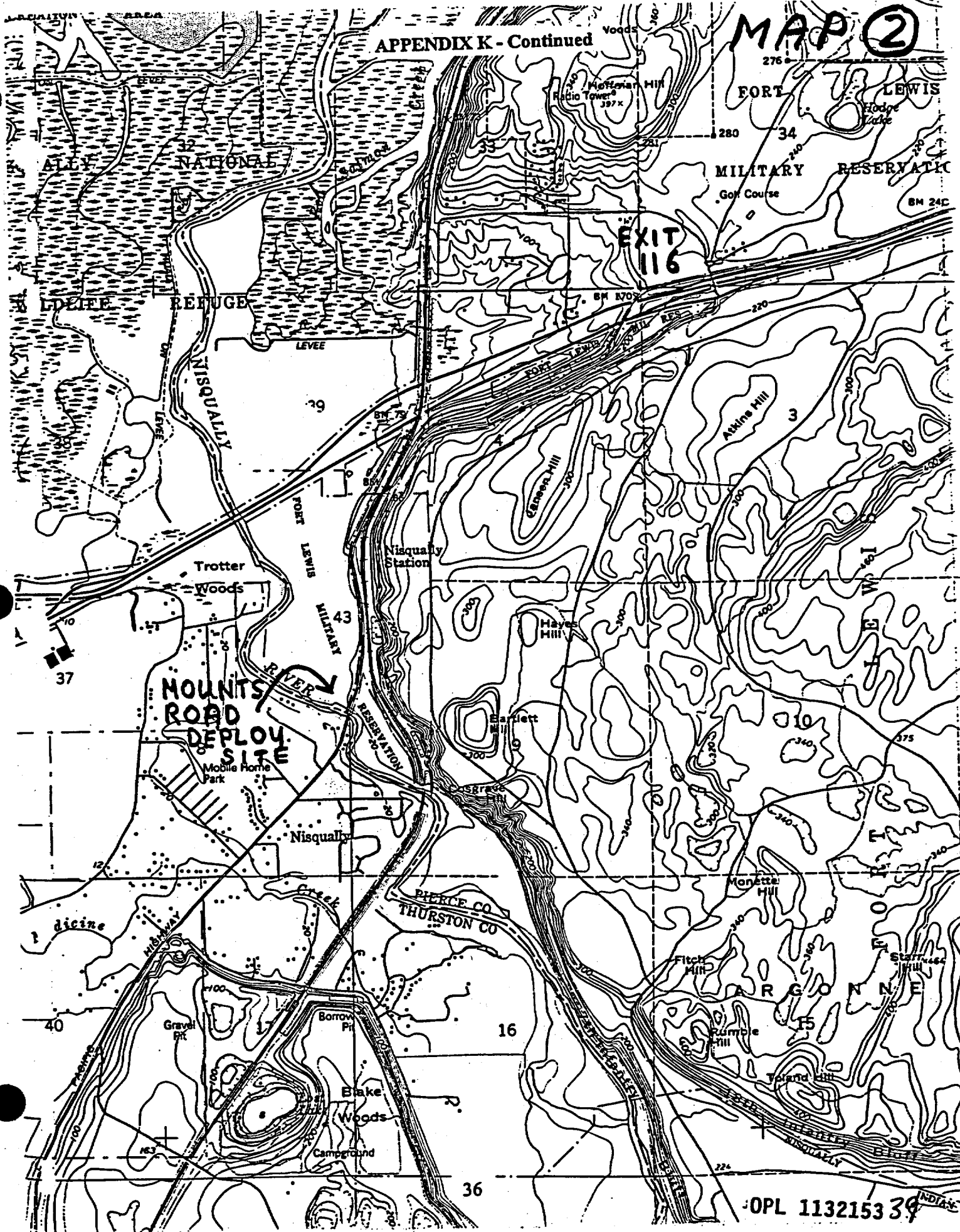
Map 5 shows the Recondo 2 and Tank Crossing deployment sites (from the Nisqually River GRP).

Map 6 shows the Mounts Road deployment (SNR-9)(from the Nisqually River GRP).



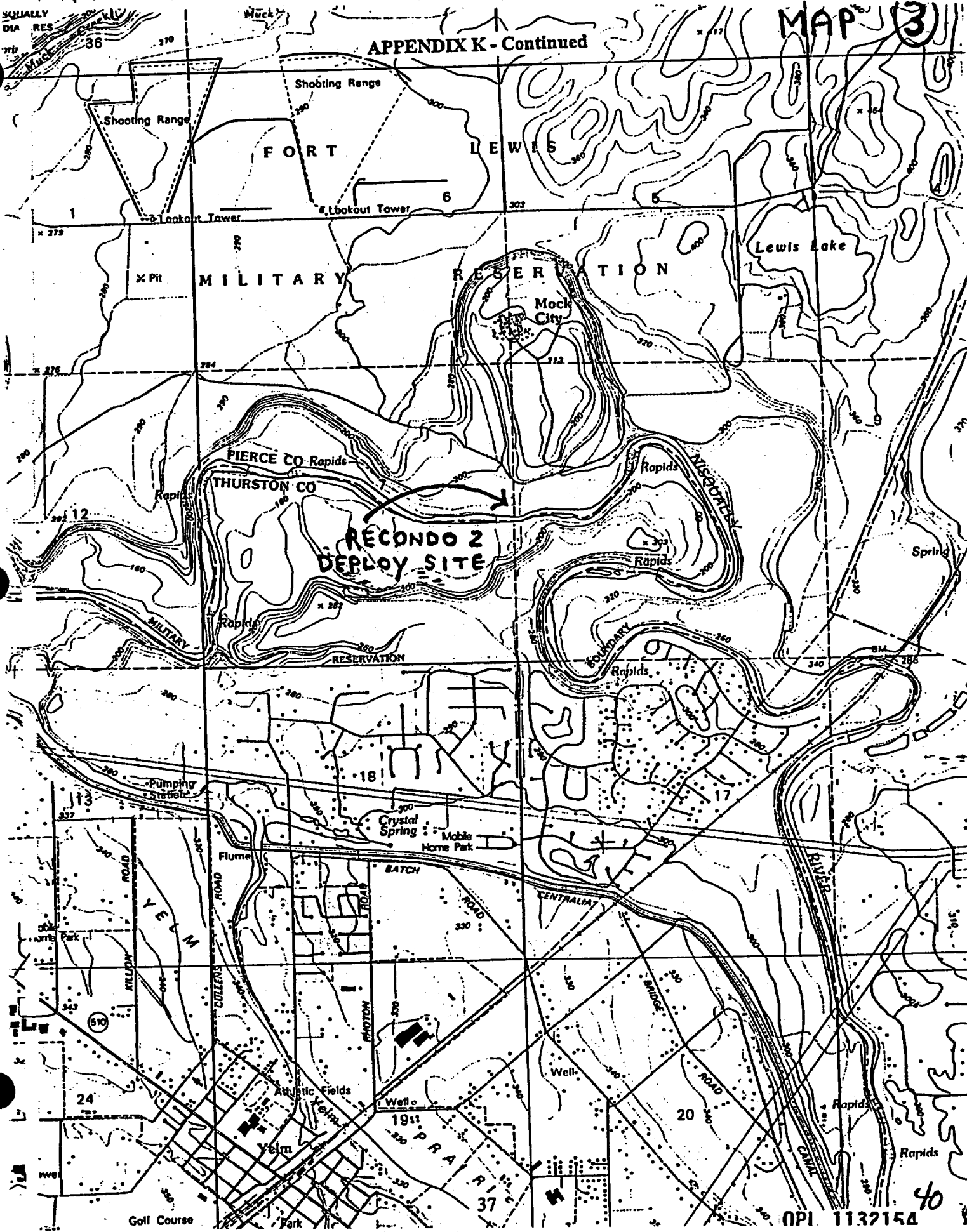
SEE MAP 9

SEE MAP 18

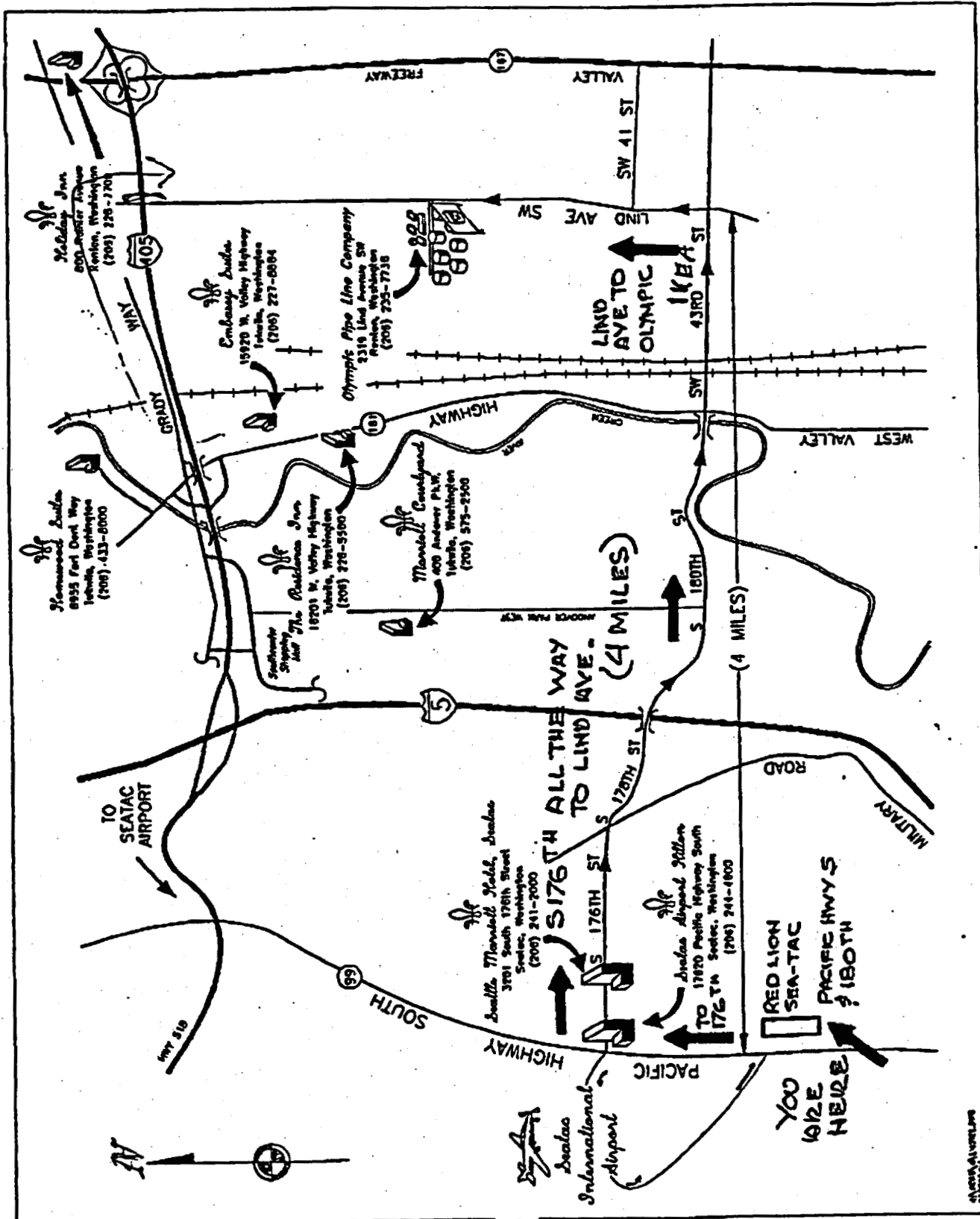


APPENDIX K - Continued

MAP 3



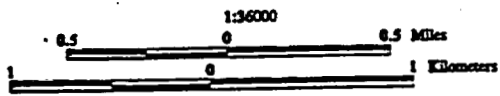
40



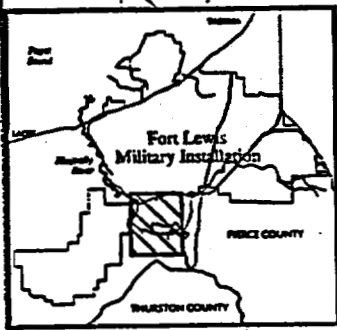
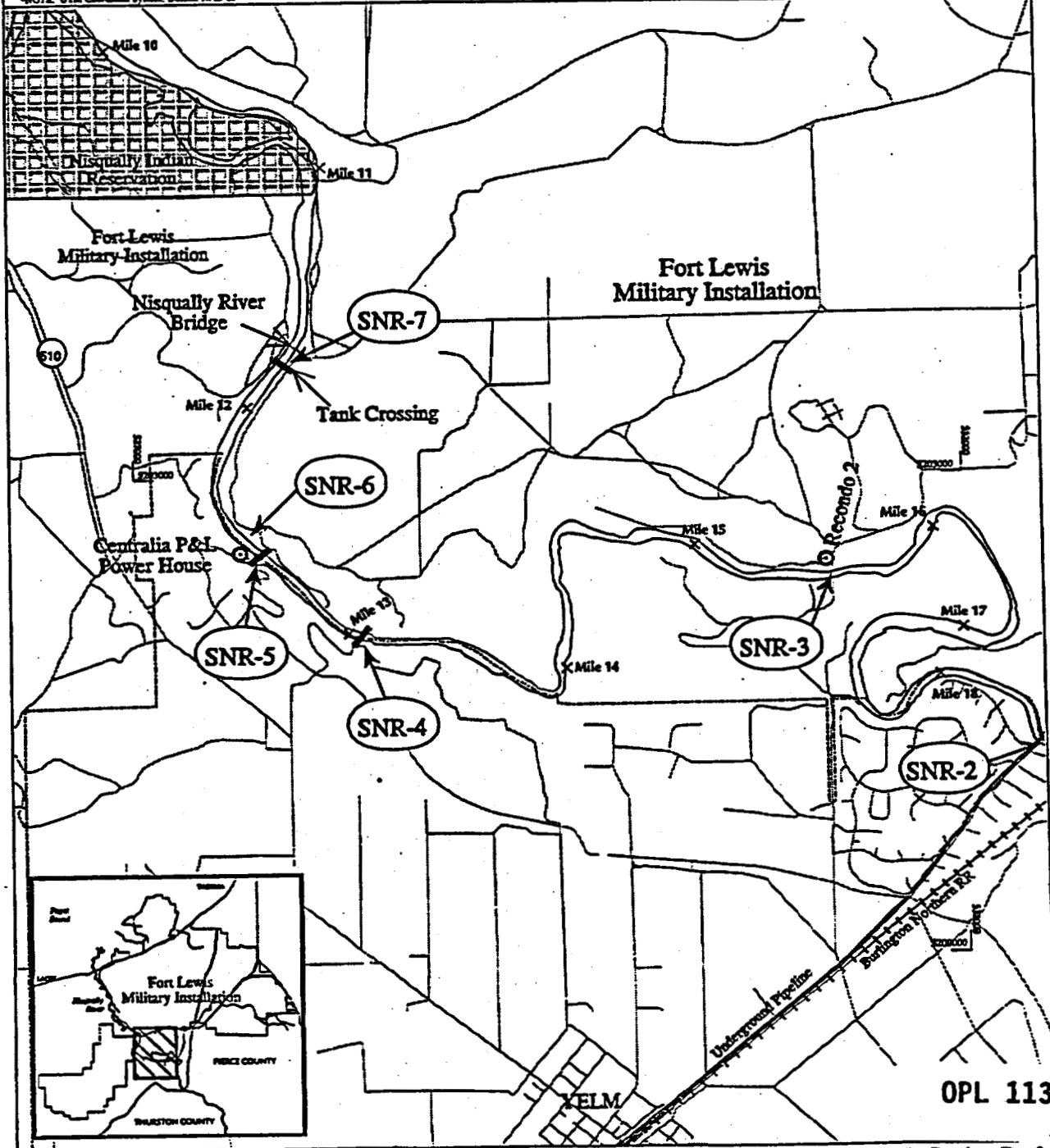
LOWER NISQUALLY RIVER GRP

Recondo 2/Centralia Power & Light
Proposed Booming & Collection Strategies

- Skimmer
- Boom
- River Miles
- Boat Launch
- Ft. Lewis Boundary
- Railroads
- Roads
- Utility/Underground Line
- Park or Public Land Reservation



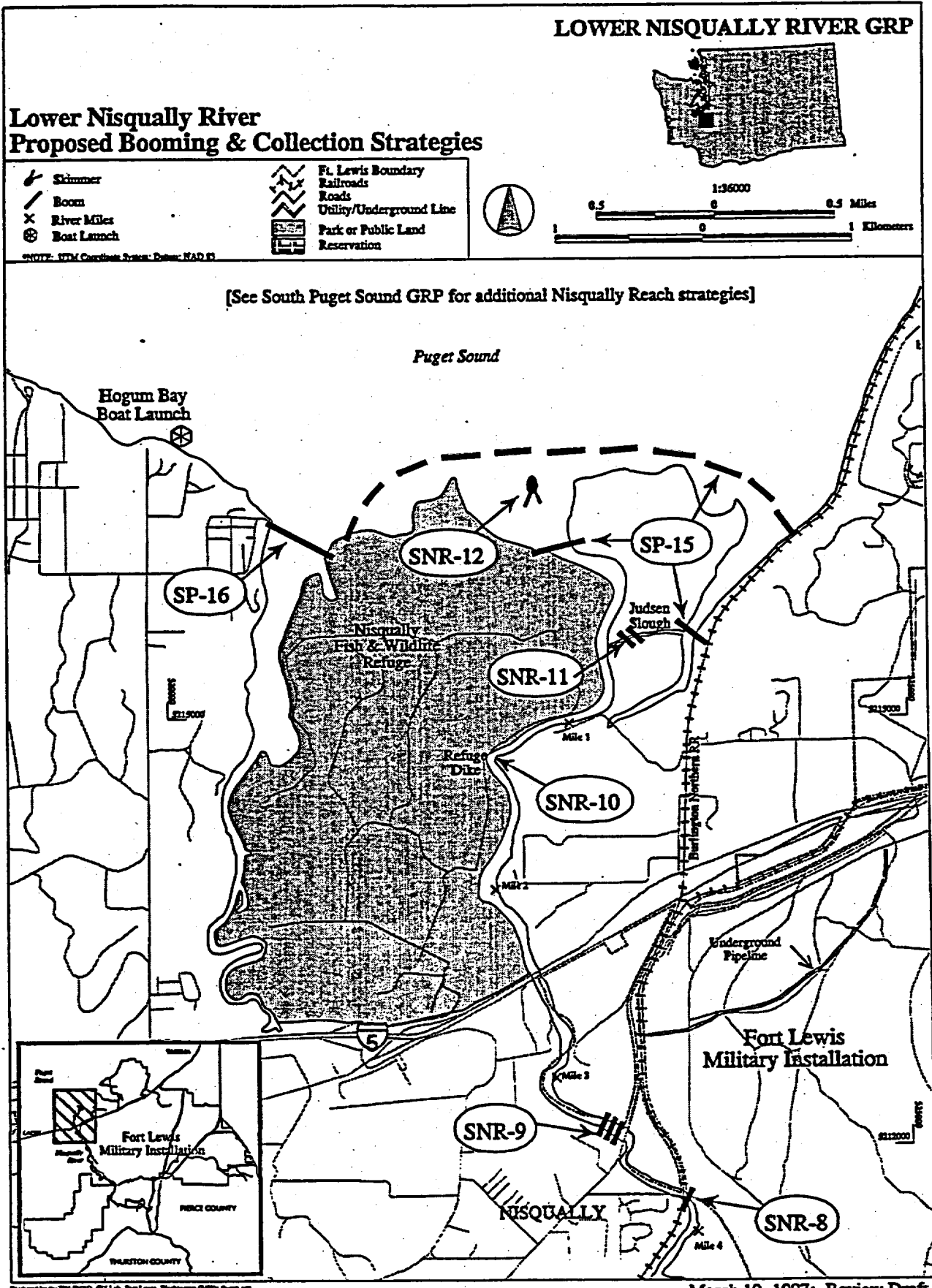
NOTE: UTM Coordinate System; Datum: NAD 83



OPL 1132156

March 10, 1997: Review Draft

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Prepared by the FW-01520, 01521, 01522, 01523, Fort Lewis, Washington 01/97; 01/97-01/97