

LINCOLN APARTMENTS SOIL-GAS SURVEY

Feb. 1993

Sites to be notified of soil gas survey:

1. City of Port Angeles
 - a. area along side of Lincoln Apt on the south side of 7th St;
area along side of the Bank on the south side of 7th St;
 - b. area in the alley between Gin's Bakery and the Bank
 - c. area along side of the vacant lot on the north side of 9th St
(across the street from Angeles Video).
 - d. area in the alley between 8th Street and 9th Street
2. Mr. and Mrs. ^{ART}Tobias
435 West 3rd St
Port Angeles, WA
(206) 457-4818 98362-2215
 - a. area within the parking lot courtyard;
 - b. area between the apartment and the building next door (south side of Lincoln Apt).
3. Robert K. Erickson
Erickson and Associates
1721 E. 5th St
Port Angeles, WA 98362-4917
(206) 452-2226
 - a. area between Springtime Robins and Captain T (parking lot of the mini mall;
4. Mr. David Cotton
Round the Clock Deli & Grocery
722 S. Lincoln St
Port Angeles, WA
(206) 452-1777 98362-6124
 - a. area around the tanks;
 - b. area on the south side of the site on 9th St; and the
 - c. area on the west side of the property

NOTIFIED

Lincoln Apartments Soil Gas Survey (Continues)

5. Arco Station #5719
807 S. Lincoln St
Port Angeles, WA 98362-7850
(206) 457-8131

Darryl Rumble -

*notified
B. J. M.*

a. area on the south side of 9th St

6. Angeles Video
902 S. Lincoln St
Port Angeles, WA
(206) 452-1255

Lien Lam
P. O. Box 395
Sequim, WA
(206)

See City of Port Angeles

7. Mall Shops to notify of planned soil gas survey:

- a. Springtime Robins and Rainbows,
(New & Used Furniture)
719 South Lincoln St
Port Angeles, WA
(206) 452-4019

98362-6123

- b. Gabe & Mel Barber Shop
719-1/2 So. Lincoln St
Port Angeles, WA
(206) 457-3636

Monday - afternoon

- c. The Hair Necessities
723 So. Lincoln St
Port Angeles, WA
(206) 452-5354

Monday - afternoon

- d. Kirk and Johnnie Rector
Captain T's Shirt Shop
P. O. Box 993
Port Angeles, WA
(206) 452-6549

98362-0806

notified

*exchanged
w/ the
Hopedale Shop*

*may also want to
send a letter to
the Fire Dept
& Health Dept*

*notified
notified*

(Feb 8, 1993)

CONSENT FOR ACCESS TO PROPERTY

NAME:

MINE

ADDRESS:

PHONE:

I give my consent to authorized employees, agents, or contractors of the Department of Ecology (Ecology) to enter and have access to my property at the above address, at reasonable times to conduct investigations to determine the nature or extent of any release or threatened release of hazardous substances. I also understand that Ecology retains the legal authority to respond to emergency conditions on this property.

Arlene -

(Signature)

4 LETTERS

(Printed)

All certified

(Date)

1.) Arco Service Station

2.) Erickson & Associates

I do not
the De
above

3.) Lincoln Apt.

✓ 4.) Round the Clock

✓ 5.) Deli City of Port Angeles

(Signature)

Enclose:

Consent form

(Printed)

MTCA

WAC 173-340

(Date)

Stamped & Addressed
Envelope -

employees, agents, or contractors of
ve access to my property at the

(Feb 8, 1993)

CERTIFIED

Address

RE: Soil Gas Survey of Lincoln Street Apartments and Vicinity

Dear :

The Department of Ecology (Ecology) is planning an investigation of petroleum contamination in soils in association with a gasoline contamination found beneath Lincoln Street Apartments. The investigation will involve testing soils by a method called a soil gas survey.

Ecology plans to tests the soils at the Lincoln Street Apartments and at several locations near the Lincoln Street Apartments during the week of March 8th, 1993. The area to be studied will extend from 7th to 9th Street and from Laurel to Chase Avenue.

Ecology would like to sample soils in an area within your property during the week of March 8, 1993. Therefore, Ecology would like to obtain permission from you to enter your property in order to do the testing.

Under the Model Toxics Control Act (RCW 70.105D.030) Ecology is authorized to enter property and to conduct investigations and cleanup of hazardous waste sites. Unless earlier access is granted by an owner or operator of a facility, Ecology is required to provide owners and operators with either, a 24 hour notice in person or over the phone, or a 3 day written notice by regular mail, explaining the need and intent to access property.

It is suspected that the gasoline contamination had originated from the Round the Clock Deli property in the 1980's. The purpose of the study is to investigate the limits of the plume of the petroleum contamination.

A soil-gas survey involves several steps. First, a small probe is punched into the soil from several inches to several feet. The hole punched into the soil is approximately 3" in diameter. Second, an air sample is drawn from the hole and tested for the presence of petroleum vapors. Third, the probe is removed and the hole is sealed. The disruption to the surface is very minor. The testing is conducted from a modified van.

It is estimated that the sampling procedure will take approximately two hours for each location tested. The amount of time needed to conduct the soil sampling will depend upon the number of samples to be collected and the soil type encountered.

The testing will be conducted by the Environmental Investigation and Laboratory Services branch of Ecology. The testing will be performed by Pam Marti and her assistants. I, also, will be present during the testing.

(Description of where and how many samples, see examples at the bottom of this form letter.)

While on the property, all investigators shall comply with the state and federal health and safety requirements determined appropriate to the circumstances at the site by the best judgment of the investigator.

Ecology would appreciate your permission to access your property to do the testing. In preparation for Ecology's entry to your property, please complete the enclosed "Consent for Access to Property" form and return it to Ecology in the address and stamped enclosed envelope. Thank you for your cooperation in this matter.

Enclosed please find a copy of C. 70.105D RCW, the Model Toxics Control Act and C. 173-340 WAC, the implementing regulations for the act.

I will contact you to confirm a date and time as to when the work will be done. Please call me at (206) 586-5562 if you have any questions.

Sincerely,

Patricia L. Martin

(Enclosures: Model Toxics Control Act
 WAC 173-340

Modify paragraph 9 for each site, may want to indent

Examples of site descriptions:

ARCO

Ecology would like to test two to three locations within the area along the 8th Street boundary at the ARCO Service Station. The testing should take approximately two hours. Efforts will be made to arrange a time for the testing which will minimize the impact on business activities.

Erickson & Associates

Ecology would like to test two to three locations within the parking lot area between the mini mall and Lincoln Street. The testing should take approximately two hours. Efforts will be made to arrange a time for the testing which will minimize the impact on business activities.

Lincoln Apartments

Ecology would like to test in two locations within the Lincoln Apartment property: (1) between Lincoln Apartments and the Springtime Robins and Rainbows building; and (2) within the Lincoln Apartment court yard. The testing should take approximately three hours. Efforts will be made to arrange a time for the testing which will minimize the impact on apartment activities.

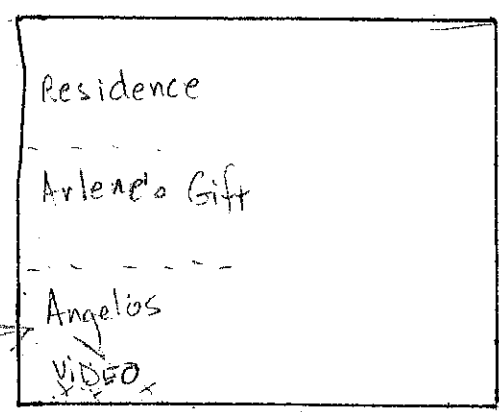
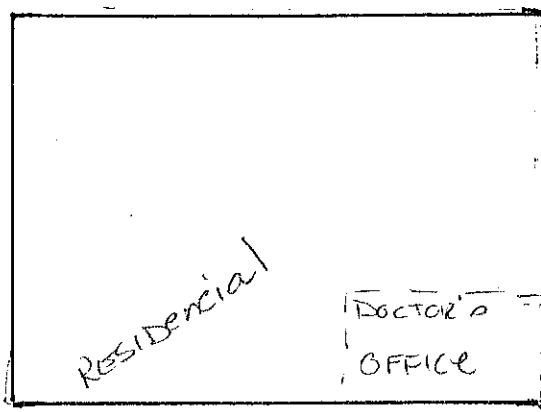
Round the Clock Deli

Ecology would like to test in three location within the Round the Clock Deli property: (1) two locations near the tank farm; (2) two locations on the west side of the property; and (3) two locations on the south side of the property. The testing should take approximately four to eight hours. Efforts will be made to minimize the impact on store activities.

City of Port Angeles

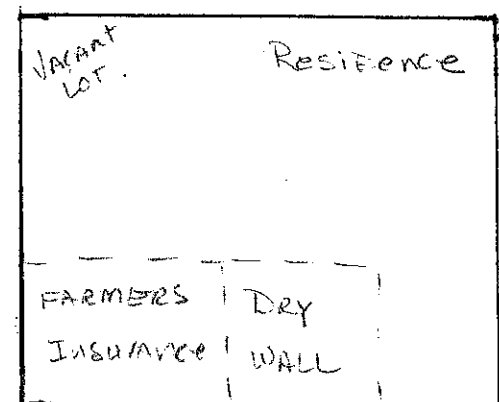
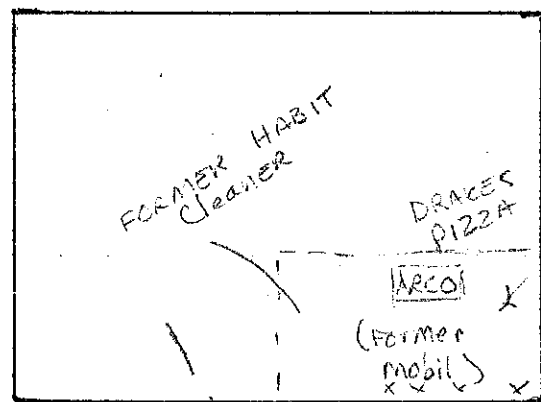
N

10th -



Old STATION

9th -

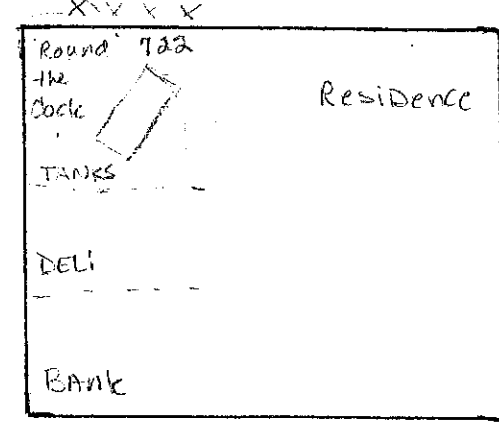
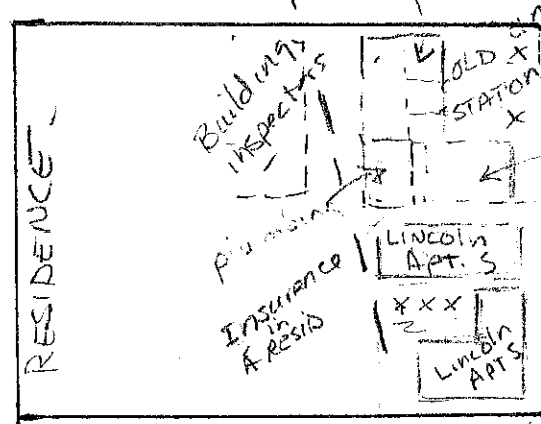


MOBILE AT ON TIME

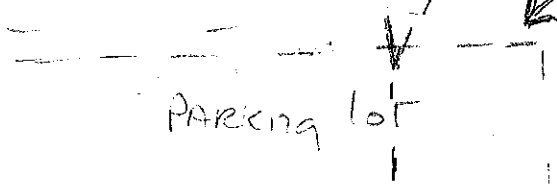
Lincoln

LAUREL

8th



7th



DRAINAGE is UNDER 20 FEET OF FILL up to About 7th ST

CHASE

010395 Hadlee Mobil
805 So. Lincoln

ARCO SITE FEB-1993

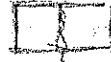
TANK

1. ~~Removed~~ change 10-28-1990
closure date 3-21-90
Contamination found -
Fast billing 6-30-90

by Delhav Industries

Site Assessor
Geotech Consultants

2. Same.
3. "
4. "



(5th tank - not on record - exempt - due to ~~Heav~~ being a
heating oil tank - 300 gals)
sampled 4 sides, bottom

310-402-1294
Michelle Johnston

100396 ARCO

(Darrell)
STATION

MANAGER

Kyle Christie
Arco - man in charge of
decisions for the Arco
SITE -

Refused to

1-4 Installed 8-01-90

Corrosion protection resistant material

Catch basin

Auto shut off

Fiberglass

Double wall -

weekly gauging

Interstitial Monitoring -

Leak Tightness testing

Self insured

- Tanks removed March 5
& 6, 1990,

- Cont. removed to
Shorwell - (458 gals)

- Site below cleanup

- NOTE: TANKS removed
prior to the tank
removal at Mobil

Michelle Johnston

Atlantic Prestige Station S, Inc #5233

(over)

~~Jan 10, 92~~
~~Mar. 2, 92~~
~~Geo~~
~~Chevron~~

901183

~~Habit Cleaners -~~
E. 8th & S. Lincoln
214 E. 8th

Report 4-17-90

- Delmar removed the tanks (Anthony Sample) 3-21-90

Geotech Consultants - Site Assessment -

5 TANKS (4) 1000 H.O., (2) 750 STODDART (1) 500 STODDART
STODDART & Heating Oil (1) 750 STODDART

- Site map is the same as for the Area Report
- Stoddard tanks in poor to fair condition
- soils excavated & exported
- building demolished & cont. soil excavated
- contaminated soils removed.

★ Source Codes and Descriptions ★

Code	Description	Code	Description
00	Unspecified Source	60	Air (General)
01	Unknown Liquid Media (Drum/Tank)	61	Ambient Air
02	Unknown Liquid Media (Spill Area)	62	Source or Effluent Air
03	Unknown Liquid Media (Waste Pond)	63	Industrial or Workroom Air
10	Water (General)	64	Hi-Vol Filter
12	Ambient Stream/River	70	Tissue (General)
13	Lake/Reservoir	71	Fish Tissue
14	Estuary/Ocean	72	Shellfish Tissue
15	Spring/Seepage	73	Bird Tissue
16	Rain	74	Mammal Tissue
17	Surface Runoff/Pond (General)	75	Macroinvertebrate
18	Irrigation Canal/Return Flow	76	Algae
20	Well (General)	77	Periphyton
21	Well (Industrial/Agricultural)	78	Plant/Vegetation
22	Well (Drinking Water Supply)	80	Oil/Solvent (General)
23	Well (Test/Observation)	81	Oil (Transformer/Capacitor)
24	Drinking Water Intake	82	Oil/Solvent (Drum/Tank)
25	Drinking Water (At Tap)	83	Oil/Solvent (Spill Area)
30	Effluent Wastewater (General)	84	Oil/Solvent (Waste Pond)
31	Municipal Effluent	90	Commercial Product Formulation
32	Municipal Inplant Waters	95	Well Drill Water
33	Sewage Runoff/Leachate	96	Well Drill Mud
34	Industrial Effluent	97	Well Sealing Material
35	Industrial Inplant Waters	98	Gravel Pack Material
36	Industrial Surface Runoff/Pond		
37	Industrial Waste Pond		
38	Landfill Runoff/Pond/Leachate		
40	Sediment (General)		
42	Bottom Sediment or Deposit		
44	Sludge (General)		
45	Sludge (Waste Pond)		
46	Sludge (Drum/Tank)		
48	Soil (General)		
49	Soil (Spill/Contaminated Area)		
50	Bore Hole Material		

Matrix Codes

10	Water-Total
11	Water-Dissolved
40	Sediment/Soil
45	Semi-Solids/Sludge
46	Sediment for EF Toxicity
70	Tissue
80	Oil/Solvent
00	Other



WASHINGTON DEPARTMENT
OF ECOLOGY
OFFICIAL SAMPLE SEAL

SAMPLE NO. Lincoln Apt. DATE 1/20/93

SIGNATURE Patricia L. Martin

PRINT NAME AND TITLE PATRICIA L. MARTIN
(Inspector, Analyst or Technician)

SEAL BROKEN BY _____

DATE _____

Ecy 600-10



WASHINGTON DEPARTMENT
OF ECOLOGY
OFFICIAL SAMPLE SEAL

SAMPLE NO. Lincoln Apt. DATE 1/20/93

SIGNATURE Patricia L. Martin

PRINT NAME AND TITLE PATRICIA L. MARTIN
(Inspector, Analyst or Technician)

SEAL BROKEN BY _____

DATE _____

Ecy 600-10



REQUEST FOR ANALYSIS

Approved By: _____

Request Date: _____

Requested By: Patty Martin

Report Data To: " " "

Program Code: J5K54

Scan No. 321-5562

LAB USE ONLY

Project Code _____

Lab Numbers _____

Project Name: Lincoln Apartments

Project Location: Port Angeles

Sampling Dates: -20-93 Date To Lab: _____

Sample Pickup Location: SWRO - Tumwater

☐ Enforcement (Chain of Custody REQUIRED)

☐ Emergency (enclose separately REASONS and Approval by)

☐ Other Matrix (Describe): _____

No. of Sam.			General Chem	No. of Sam.			Gen Chem. Biology	No. of Sam.			Organics & Toxics
Other	Sed	H2O		Other	Sed	H2O		Other	Sed	H2O	
			Turbidity				BOD/5 day				Base/Neutral/Acids
			pH				COD				Acid/Neutrals Only
			Conductivity				TOC				Volatile Organics
			Total Alkalinity								Pesticides/PCBs
			Hardness				Nutrients (3)				PCBs Only
			Chloride				Ammonia				Organophosphate Pest.
			Sulfate				Nitrate-Nitrite				CI PhenoxyAcid Herb.
			Fluoride				Total Phosphorous				Purgeable Halocarbons
			Cyanide				Ortho-Phosphate				PAH
							Fecal Coll Bacteria				
			SOLIDS (4)								Hydrocarbon Analysis
			TSS				PP Metals				Phenolics (AAP)
			TS				EP Tox Metals				Oil & Grease
				Total			Diss	Specified			Ignitability
				Other	Sed	H2O	H2O	Metals (list)			TOX
											Bioassay
			% Solids								NPDES (% effluent)
											HW Designation
			% Lipids								Other:

Comments:

NOTE: Chain of Custody is recommended on all sampling events.

Sample Bottles Required:

Sample Disposition After Analysis:

DEPARTMENT OF ECOLOGY
MANCHESTER ENVIRONMENTAL LABORATORY

SAMPLE REQUIREMENTS

Parameter	Minimum Volume mL	Preservation Hold all samples at 4°C	Holding Time, days	Parameter	Minimum Volume mL	Preservation Hold all samples at 4°C	Hold Time, days
Alkalinity	100		14	Solids (4)	500		7
Biochemical Oxygen Demand	2000	Store in the dark	2	Solids, Suspended	250		7
Chloride	100		28	Solids, Settleable	1000		2
Chemical Oxygen Demand	100	H ₂ SO ₄ to pH < 2	28	Sulfate	100		28
Color	100		2	Turbidity	100		2
Conductivity	100		28	Bacteria, Coliform	200	Do not freeze	30 hours
Cyanide	500	NaOH to pH 12	14	Bacteria, Other	200	Do not freeze	30 hours
Fluoride, Total	100 P		28	Bioassay	100g G		-
Fluoride, Soluble	100 P		28	Lipids	20g G		-
Hardness	100		6 months				
Metals, Total	200	HNO ₃ to pH < 2	6 months	Priority Pollutants	2000 GT		7
Metals, Dissolved	200	Filter, then HNO ₃ to pH < 2	6 months	Volatile Organics	20 GT		14
Metals, Suspended	200		6 months	PCB	200 GT		14
Mercury	200 G		28	Purgeable Chlorinated HC	200 GT		14
				Halogenated HC (HW)	100 GT		14
				Polynuclear Aromatics (HW)	100 GT		14
Nitrogen, Total Kjeldahl	500	H ₂ SO ₄ to pH < 2	28				
Nitrogen, Ammonia	200	H ₂ SO ₄ to pH < 2	28	EP Toxicity, Metals	200 GT		6 months
Nitrate	200	H ₂ SO ₄ to pH < 2	2	EP Toxicity, Organics	2000 GT		14
Nitrite	200	H ₂ SO ₄ to pH < 2	2	Ignitability	100 G		28
Oil and Grease	500 G	H ₂ SO ₄ pH < 2	28	Reactivity	50 G		28
				TOX	500		28
pH	50		2 hours				
Phosphorous, Total	200		28				
Phosphorous, Ortho	200		2				
Phenolics, Recoverable	500 G	H ₂ SO ₄ pH < 2	28				
Salinity	200		28				
				Analysis not listed: Discuss with lab chemist.			

G = Use only a glass container.

GT = Use only an organic-free glass container with Teflon lid liner.

P = Use only a plastic container

g = gram

AV/MB2/121814/84



REQUEST FOR ANALYSIS

Approved By: W. J. Martin

Request Date: 1-7-93

Program Code: J5K54

Requested By: PATTY MARTIN

Scan No. 321-5562

Report Date To: " "

LAB USE ONLY

Project Code _____

Lab Numbers _____

Project Name: Lincoln Apartments

☐ Enforcement (Chain of Custody REQUIRED)

Project Location: Port Angeles

☐ Emergency (enclose separately REASONS and Approval by)

Sampling Dates: 1-20-93 Date To Lab: _____

Sample Pickup Location: SWRO - Tumwater

☒ Other Matrix (Describe): Routine H₂O Sample

No. of Sam.			General Chem	No. of Sam.			Gen Chem, Biology	No. of Sam.			Organics & Toxics
Other	Sed	H2O		Other	Sed	H2O		Other	Sed	H2O	
			Turbidity				BOD/5 day				Base/Neutral/Acids
			pH				COD				Acid/Neutrals Only
			Conductivity				TOC			✓	Volatile Organics
			Total Alkalinity								Pesticides/PCBs
			Hardness				Nutrients (3)				PCBs Only
			Chloride				Ammonia				Organophosphate Pest.
			Sulfate				Nitrate-Nitrite				CI Phenoxy Acid Herb.
			Fluoride				Total Phosphorous				Purgeable Halocarbons
			Cyanide				Ortho-Phosphate				PAH
										✓	BTEX/WTPH-G
							Fecal Coll Bacteria			✓	WTPH-D
			SOLIDS (4)								Hydrocarbon Analysis
			TSS				PP Metals				Phenolics (AAP)
			TS				EP Tox Metals				Oil & Grease
											Ignitability
											TOX
											Bioassay
			% Solids								NPDES (% effluent)
											HW Designation
			% Lipids								Other:

Comments: Water Sample will be taken from a water sump contaminated with Petroleum

NOTE: Chain of Custody is recommended on all sampling events.

Sample Bottles Required: YES

Sample Disposition After Analysis:

ECY 040-2-62 (Rev. 7/88)

DEPARTMENT OF ECOLOGY
MANCHESTER ENVIRONMENTAL LABORATORY

SAMPLE REQUIREMENTS

Parameter	Minimum Volume mL	Preservation Hold all samples at 4°C	Holding Time, days	Parameter	Minimum Volume mL	Preservation Hold all samples at 4°C	Hold Time, days
Alkalinity	100		14	Solids (4)	500		7
Biochemical Oxygen Demand	2000	Store in the dark	2	Solids, Suspended	250		7
Chloride	100		28	Solids, Settleable	1000		2
Chemical Oxygen Demand	100	H ₂ SO ₄ to pH < 2	28	Sulfate	100		28
Color	100		2	Turbidity	100		2
Conductivity	100		28	Bacteria, Coliform	200	Do not freeze	30 hours
Cyanide	500	NaOH to pH 12	14	Bacteria, Other	200	Do not freeze	30 hours
Fluoride, Total	100 P		28	Bioassay	100g G		-
Fluoride, Soluble	100 P		28	Lipids	20g G		-
Hardness	100		6 months				
Metals, Total	200	HNO ₃ to pH < 2	6 months	Priority Pollutants	2000 GT		7
Metals, Dissolved	200	Filter, then HNO ₃ to pH < 2	6 months	Volatile Organics	20 GT		14
Metals, Suspended	200		6 months	PCB	200 GT		14
Mercury	200 G		28	Purgeable Chlorinated HC	200 GT		14
				Halogenated HC (HW)	100 GT		14
Nitrogen, Total Kjeldahl	500	H ₂ SO ₄ to pH < 2	28	Polynuclear Aromatics (HW)	100 GT		14
Nitrogen, Ammonia	200	H ₂ SO ₄ to pH < 2	28				
Nitrate	200	H ₂ SO ₄ to pH < 2	2	EP Toxicity, Metals	200 GT		6 months
Nitrite	200	H ₂ SO ₄ to pH < 2	2	EP Toxicity, Organics	2000 GT		14
Oil and Grease	500 G	H ₂ SO ₄ pH < 2	28	Ignitability	100 G		28
				Reactivity	50 G		28
pH	50		2 hours	TOX	500		28
Phosphorous, Total	200		28				
Phosphorous, Ortho	200		2				
Phenolics, Recoverable	500 G	H ₂ SO ₄ pH < 2	28				
Salinity	200		28				
G = Use only a glass container.				Analysis not listed: Discuss with lab chemist.			
GT = Use only an organic-free glass container with Teflon lid liner.				P = Use only a plastic container			
				g = gram			

AV/MB2/121814/84

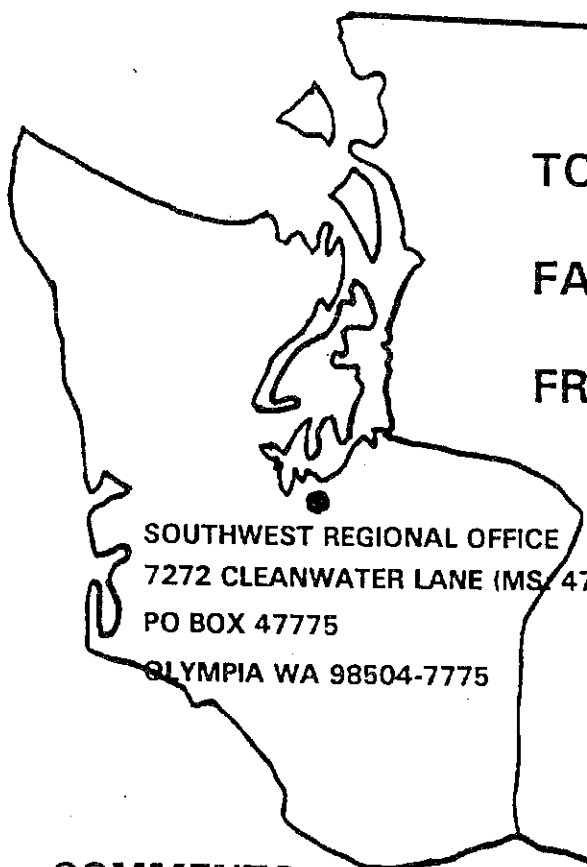
FAX COVER SHEET

WASHINGTON STATE
DEPARTMENT OF ECOLOGY

DATE: 1-7-93

TIME: 1:40

PAGES: 2



MANCHESTER LAB

TO: Pam Covey

FAX No.: _____

FROM: PATTY MARTIN
586-5562

SOUTHWEST REGIONAL OFFICE
7272 CLEANWATER LANE (MS 47775)
PO BOX 47775
OLYMPIA WA 98504-7775

PHONE (206) 753-2353
FAX (206) 753-8531

COMMENTS: _____
