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15									<u> </u>	age
16	ı.	INTRODUCTION					•	•		3
	II.	JURISDICTION AND VEN	UE				•	•		5
17	III.	PARTIES BOUND		• •		• •	•	•	• •	6
	IV.	DEFINITIONS		• •		• •	•	•	• •	6 7
18	V.	STATEMENT OF FACTS		• •	• • •	• •	•	•	• •	9
ľ	VI.	WORK TO BE PERFORMED				• •	•	•	• •	10
19	VII.	DESIGNATED PROJECT C			• •	• •	•	•	• •	11
.	VIII.	PERFORMANCE		• •	• • •	• •	•	•	• •	11
20	IX.	ACCESS SAMPLING, DATA REPOR		• • 7777TT	* * * *	ייי. ריייע	•	•	• •	12
	X.			AAATT	MDTI.	LII ·	•	•		13
21	XI.	PROGRESS REPORTS .				• • •	•	•	•	14
	XII.	RETENTION OF RECORDS				• • •	•	•		15
22	XIII.	TRANSFER OF INTEREST						•	•	15
[	XIV.	RESOLUTION OF DISPUT					•	٠		17
23	XV.	AMENDMENT OF CONSENT	DECKEE .	• •	• •	• • '	•	•	•	17
	XVI.	EXTENSION OF SCHEDUL		• •	• •	• •		•		19
24	XVII.					• •	•	•		. 21
	XVIII.	COVENANT NOT TO SUE				• •	• •	•	• •	. 22
25	XIX.	THE THE TOTAL TOTAL						•		. 23
	XX.	RESERVATION OF RIGHT						•		23
26	XXI.	COMPLIANCE WITH APPL REMEDIAL AND INVESTI	GATIVE CO	STS		• •	•	.•		. 23



Olympia, WA 98504-0117

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             IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
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                              FOR SKAGIT COUNTY
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     STATE OF WASHINGTON
                                           Case No:
                                                      93-
     DEPARTMENT OF ECOLOGY,
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                                           CONSENT DECREE
          Plaintiff,
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     TEXACO REFINING AND MARKETING
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     INCORPORATED,
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          Defendant.
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                              Table of Contents
15
                                                                      Page
16
          I.
                INTRODUCTION
         II.
                JURISDICTION AND VENUE
17
        III.
                PARTIES BOUND
                                                                         6
         IV.
                DEFINITIONS
                                                                         6
                STATEMENT OF FACTS
18
          V.
         VI.
                WORK TO BE PERFORMED
19
        VII.
                DESIGNATED PROJECT COORDINATORS
                                                                        10
       VIII.
                PERFORMANCE .
                                                                        11
         IX.
                ACCESS
20
                SAMPLING, DATA REPORTING AND AVAILABILITY
          Χ.
21
         XI.
                PROGRESS REPORTS
        XII.
                RETENTION OF RECORDS
22
       XIII.
                TRANSFER OF INTEREST IN PROPERTY
        XIV.
                RESOLUTION OF DISPUTES
                AMENDMENT OF CONSENT DECREE
23
         XV.
                EXTENSION OF SCHEDULE
        XVI.
24
       XVII.
                ENDANGERMENT
      XVIII.
                COVENANT NOT TO SUE
25
        XIX.
                INDEMNIFICATION
         XX.
                RESERVATION OF RIGHTS
26
        XXI.
                COMPLIANCE WITH APPLICABLE LAWS
                                                                        23
       XXII.
               REMEDIAL AND INVESTIGATIVE COSTS
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FAX (206) 438-7743

1 2 3 4	XXIII. XXIV. XXV. XXVI. XXVII. XXVIII. XXXIX.	IMPLEMENTATION OF REMEDIAL ACTION
5		Exhibit A - Remedial Action Plan
6		Exhibit B - Schedule of Remedial Activities Exhibit C - Soil Cleanup Standard
7		Exhibit D - Compliance Monitoring Plan Exhibit E - Health and Safety Plan
8		Exhibit F - Report of the Interim Action Cleanup Activities and Remedial Investigation/
9		Feasibility Studies Exhibit G - Restrictive Covenant Exhibit H - Cleanup Action Plan
10		EXHIBIT H - Cleanup Action Plan
11		
12		
13	* **	
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#### I. INTRODUCTION

- A. In entering into this Consent Decree (Decree), the mutual objective of the Washington State Department of Ecology (Ecology, Department of Ecology, or WDOE), and Texaco Refining and Marketing Inc. (Defendant or Texaco) is to provide for remedial action at a facility where there has been a release or threatened release of hazardous substances. This Decree requires the Defendant to undertake the following remedial action(s):
  - (1) Continue ongoing in situ bioremediation of the Munks farm west pasture and, if necessary, excavate any remaining "hotspots".
  - (2) Bioremediate or, if necessary, excavate contaminated soils in the Blackberry Ditch.
  - (3) Excavate, to the extent feasible, all visibly contaminated soils in the vicinity of the booster pumps and install one groundwater monitoring well downgradient of the pump area.
  - (4) Delineate the extent of contamination in the catchment basin through a sampling program and, if necessary, conduct in situ remediation of soils which exceed the cleanup standards.
  - (5) Treat excavated soils in the Flare Area Land Treatment Facility and conduct a monitoring program of treated soils.

These actions are more fully described in Exhibit A to this

Decree, the Remedial Action Plan. Ecology has determined that

these actions are necessary to protect public health and the

environment.

B. The Complaint in this action is being filed

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- B. The Complaint in this action is being filed simultaneously with this Decree. An answer has not been filed, and there has not been a trial on any issue of fact or law in this case. However, the parties wish to resolve the issues raised by Ecology's complaint. In addition, the parties agree that settlement of these matters without litigation is reasonable and in the public interest and that entry of this Decree is the most appropriate means of resolving these matters.
- C. In signing this Decree, Defendant agrees to its entry and agrees to be bound by its terms.
- D. By entering into this Decree the parties do not intend to discharge nonsettling parties from any liability they may have with respect to any release of hazardous substances from or affecting Defendant's Anacortes property. Defendant and Ecology retain the right to seek reimbursement in whole or in part from any responsible entities for sums expended pursuant to this Decree.
- E. This Decree shall not be construed as proof of liability or responsibility for any releases of hazardous substances or cost for remedial action nor an admission of any facts; provided, however, that the Defendant shall not challenge

F. The court being fully advised of the reasons for entry of this Decree, and good cause having been shown, IT IS HEREBY ORDERED, ADJUDGED AND DECREED AS FOLLOWS:

#### II. JURISDICTION AND VENUE

- A. This Court has jurisdiction over the subject matter and over the parties pursuant to Chapter 70.105D RCW, the Model Toxics Control Act (MTCA). Venue is properly laid in Skagit County, the location of the property at issue.
- B. Authority is conferred upon the Washington State
  Attorney General by RCW 70.105D.040(4)(a) to agree to a
  settlement with any potentially liable person if, after public
  notice and hearing, Ecology finds the proposed settlement would
  lead to a more expeditious cleanup of hazardous substances. RCW
  70.105D.040(4)(b) requires that such a settlement be entered as
  a consent decree issued by a court of competent jurisdiction.
- C. Ecology has determined that a release or threatened release of a hazardous substance has occurred at the Site.
- D. Ecology has given notice to Defendant, as set forth in RCW 70.105D.020(8), of Ecology's determination that the Defendant is a potentially liable person for the Site and that there has been a release or threatened release of hazardous substances at the Site.
- E. The actions to be taken pursuant to this Decree are necessary to protect public health and the environment.

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F. Defendant has agreed to undertake the actions specified in this Decree and consents to the entry of this Decree under the MTCA.

### III. PARTIES BOUND

This Decree shall apply to and be binding upon the signatories to this Decree (Parties), their successors and assigns. The undersigned representative of each party hereby certifies that he or she is fully authorized to enter into this Decree and to execute and legally bind such party to comply with the Decree. Defendant agrees to undertake all actions required by the terms and conditions of this Decree and not to contest state jurisdiction regarding this Decree. No change in ownership or corporate status shall alter the responsibility of the Defendant under this Decree. Defendant shall provide a copy of this Decree to all agents, contractors and subcontractors retained to perform work required by this Decree and shall ensure that all work undertaken by such contractors and subcontractors will be in compliance with this Decree.

#### IV. DEFINITIONS

Except as specified herein, all definitions in WAC 173-340-200 apply to the terms in this Decree.

A. <u>Site</u>: The Site, also referred to as the Oil Spill Site, is located on the western flank of March Point near the Texaco Refining and Marketing Inc., Anacortes, Washington, refinery, and is bounded by North Texas Road to the north, a north-south trending Texaco pipeway and pump station to the

east, West March Point Road to the west, and a railroad spur running northwest-southeast that crosses Fidalgo Bay to the south. The Site is more particularly described in Exhibit F to this Decree which includes a detailed site diagram.

- B. <u>Parties</u>: Refers to the Washington State Department of Ecology and Texaco Refining and Marketing Inc.
- C. <u>Defendant</u>: Refers to Texaco Refining and Marketing Inc.
- D. <u>Consent Decree Or Decree</u>: Refers to this Consent

  Decree and each of the exhibits to the Decree. All exhibits are

  integral and enforceable parts of this Consent Decree. The

  terms "Consent Decree" or "Decree" shall include all Exhibits to

  the Consent Decree.

### V. STATEMENT OF FACTS

Ecology makes the following finding of facts without any express or implied admissions by Defendant.

- A. Defendant, a Delaware corporation, owns and operates a petroleum refinery at 600 South Texas Road in Anacortes, Washington.
- B. Crude oil storage facilities at the refinery are supplied by means of a pipeline that runs to a docking facility at March Point.
- C. Two crude oil booster pumps are located approximately half-way along the pipeline, in the northwest corner of the refinery property. The booster pumps assist in transferring crude oil from ships to the refinery storage tanks.

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- E. The casing failure resulted in the release of approximately 5,000 barrels of crude oil. Approximately 3,000 barrels of the oil were captured in a spill containment system adjacent to the booster pumps. The remaining 2,000 barrels impacted the adjacent property to the west, belonging to the Leonard Munks family, and a railroad right-of-way owned by Shell Oil Company. Approximately 500 barrels of surface drainage from the spill area also reached the southern portion of Fidalgo Bay via drainage culverts.
- F. Emergency response measures were implemented immediately following the spill to contain the spill, prevent any further migration of the released oil into Fidalgo Bay, and remove the spilled oil from the water and affected property.
- G. In July, 1991, an Agreed Order was issued to Texaco by Ecology, directing interim cleanup activities at the Site.

  Under the Agreed Order, Texaco undertook an extensive remedial effort to clean up the Munks family property and the Shell Oil Company railroad right-of-way.
- H. In February, 1992, Texaco submitted a "Report on the Interim Action Cleanup Activities and Remedial Investigation/ Feasibility Studies" to Ecology, analyzing the status of cleanup activities and proposing further remedial action.

I. Based on the above facts, Ecology has determined that the remedial action plan attached as Exhibit A to this Decree is protective of human health and the environment, and will lead to the most expeditious cleanup of hazardous substances in compliance with all applicable, relevant and appropriate cleanup standards, as defined in RCW 70.105D.030(2)(d).

#### VI. WORK TO BE PERFORMED

This Decree contains a program designed to protect public health, welfare and the environment from the known release, or threatened release, of hazardous substances or contaminants at, on, or from the Site.

Remedial action measures to be performed are set forth Α. in Exhibit A, the Remedial Action Plan. Exhibit B sets forth the schedule for implementing this work. Exhibit C sets forth the Soil and Groundwater Cleanup Standard. Exhibit D sets forth the Compliance Monitoring Plan. Exhibit E sets forth a Health and Safety Plan for the workers implementing the Remedial Action Exhibit F sets forth the Report of the Interim Action Plan. Cleanup Activities and Remedial Investigation/Feasibility Studies. Exhibit G is the Restrictive Covenant that Texaco is to file with the Skagit County Auditor. Exhibit H sets forth the Cleanup Action Plan for the Site. Exhibits A through H are integral and enforceable parts of this Consent Decree. where performance by Ecology is expressly provided herein, Defendant commits to implement the programs described in Exhibits A through E and H.

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B. Defendant agrees not to perform any remedial actions outside the scope of this Decree unless the parties agree to amend the scope of work to cover these actions. All work conducted under this Decree shall be done in accordance with ch. 173-340 WAC unless otherwise provided herein.

#### VII. DESIGNATED PROJECT COORDINATORS

The project coordinator for Ecology is Paul Skyllingstad, whose address and phone number are:

Industrial Section
Department of Ecology
P.O. Box 47706
Olympia, Washington 98504-7706

Phone: (206) 586-0583 Fax: (206) 586-1469.

The project coordinator for Defendant is Joseph M. Haley, whose address and phone number are:

Texaco Refining and Marketing Inc. Puget Sound Plant P.O. Box 622 Anacortes, Washington 98221-0622

Phone: (206) 293-1517 Fax: (206) 293-1584

Each project coordinator shall be responsible for overseeing the implementation of this Decree. The Ecology project coordinator will be Ecology's designated representative at the Site. To the maximum extent possible, communications between Defendant and Ecology, and all documents, including reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Decree, shall be directed through the project coordinators. The project coordinators may designate, in writing, working

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level staff contacts for all or portions of the implementation of the remedial work required by this Decree. The project coordinators may agree to minor modifications to the work to be performed without formal amendments to this Decree. Minor modifications will be documented in writing by Ecology.

Any Party may change its respective project coordinator. Written notification shall be given the other Party, in writing, at least ten (10) days prior to the change.

#### VIII. PERFORMANCE

All work performed pursuant to this Decree shall be under the direction and supervision, as necessary, of a qualified professional engineer or hydrogeologist, or equivalent, with experience and expertise in hazardous waste site investigation and cleanup. Any construction work must be under the supervision of a professional engineer. Defendant shall notify Ecology in writing as to the identity of such professional(s) and of any contractors and subcontractors to be used in carrying out the terms of this Decree, in advance of their involvement at the Site.

### IX. ACCESS

Ecology or any Ecology authorized representative shall have the authority to enter and freely move about all property at the Site at all reasonable times for the purposes of, <u>inter alia</u>: inspecting records, operation logs, and contracts related to the work being performed pursuant to this Decree; reviewing Defendant's progress in carrying out the terms of this Decree;

conducting such tests or collecting samples as Ecology or the project coordinator may deem necessary; using a camera, sound recording, or other recording equipment to record work done pursuant to this Decree; and verifying the data submitted to Ecology by Defendant. Upon request, Ecology shall split any samples taken during an inspection unless the Defendant fails to make available a representative for the purpose of splitting All parties with access to the Site pursuant to this paragraph shall comply with Texaco's Health and Safety Plan, Exhibit E, with the following exception: Ecology authorized representatives shall satisfy the conditions of the Health Surveillance and Training Certification contained in Texaco's Health and Safety Plan if the representatives have been examined either by a physician or a technician trained in occupational Except in an emergency, Ecology shall give Defendant medicine. reasonable notice before entering the Site.

### X. SAMPLING, DATA REPORTING AND AVAILABILITY

With respect to the implementation of this Decree,
Defendant shall make the results of all sampling, laboratory
reports, and/or test results generated by it, or on its behalf
available to Ecology and shall submit these results in
accordance with Section XI of this Decree.

In accordance with WAC 173-340-840(5), ground water sampling data shall be submitted according to Exhibit D: Compliance Monitoring Plan. These submittals shall be provided to Ecology in accordance with Section XI of this Decree.

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If requested by Ecology, Defendant shall allow split or duplicate samples to be taken by Ecology and/or its authorized representatives of any samples collected by Defendant pursuant to the implementation of this Decree. Defendant shall notify Ecology seven (7) days in advance of any sample collection or work activity at the Site. Ecology shall, upon request, allow split or duplicate samples to be taken by Defendant or its authorized representatives of any samples collected by Ecology pursuant to the implementation of this Decree provided it does not interfere with the Department's sampling. Without limitation on Ecology's rights under Section IX, Ecology shall notify Defendant prior to any sample collection activity.

#### XI. PROGRESS REPORTS

Defendant shall submit to Ecology written quarterly progress reports which describe the actions taken during the previous quarter to implement the requirements of this Decree. The progress reports shall include the following:

- A. A list of on-site activities that have taken place during the quarter;
- B. Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests;
- C. Description of all deviations from the schedule (Exhibit B) during the current quarter and any planned deviations in the upcoming quarter;

- D. All raw data (including laboratory analysis) received by the Defendant during the past quarter and an identification of the source of the sample;
- F. A list of deliverables for the upcoming quarter if different from the schedule; and

All progress reports shall be submitted by the tenth day of the quarter in which they are due after the effective date of this Decree. Quarters shall run from January through March, April through June, July through September, and October through December. Unless otherwise specified, progress reports and any other documents submitted pursuant to this Decree shall be sent by certified mail, return receipt requested, to Ecology's project coordinator.

### XII. RETENTION OF RECORDS

Defendant shall preserve, during the pendency of this

Decree and for ten (10) years from the date this Decree is no

longer in effect as provided in Section XXV, all records,

reports, documents, and underlying data in its possession

relevant to the implementation of this Decree and shall insert

in contracts with project contractors and subcontractors a

similar record retention requirement. Upon request of Ecology,

Defendant shall make all non-archived records available to

Ecology and allow access for review. All archived records shall

be made available to Ecology within a reasonable period of time.

Records may be retained on microfiche or other form of reproducible facsimile.

### XIII. TRANSFER OF INTEREST IN PROPERTY

No voluntary or involuntary conveyance or relinquishment of title, easement, leasehold, or other interest in any portion of the Site shall be consummated without provision for continued operation and maintenance of any containment system, treatment system, and monitoring system installed or implemented pursuant to this Decree.

Prior to transfer of any legal or equitable interest in all or any portion of the property, and during the effective period of this Decree, Defendant shall serve a copy of this Decree upon any prospective purchaser, lessee, transferee, assignee, or other successor in interest of the property; and, at least thirty (30) days prior to any transfer, Defendant shall notify Ecology of said contemplated transfer.

### XIV. RESOLUTION OF DISPUTES

- A. In the event a dispute arises as to an approval, disapproval, or other decision or action by Ecology's project coordinator, the Parties shall utilize the dispute resolution procedure set forth below:
- (1) Upon receipt of the Ecology project coordinator's decision, Defendant has fourteen (14) working days within which to notify Ecology's Toxics Cleanup Program Manager of its objection to the decision.

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render a decision based on such standard of review.

C. The Parties agree to utilize the dispute resolution process in good faith and to expedite, to the extent possible, the dispute resolution process whenever it is used. Where either Party utilizes the dispute resolution process in bad faith or for purposes of delay, the other Party may seek sanctions.

whether such action or decision was arbitrary and capricious and

Implementation of these dispute resolution procedures may provide a basis for delay of any activities required in this Decree. If it believes an extension of schedule is warranted, Texaco may request one under Section XVI of this Decree.

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### XV. AMENDMENT OF CONSENT DECREE

This Decree may be amended only by Court order or by a written stipulation among the Parties that is entered by the Court. Such amendment shall become effective upon entry by the Court. Agreement to amend shall not be unreasonably withheld by any Party to the Decree.

Defendant shall submit any request for an amendment to Ecology for approval. Ecology shall indicate its approval or disapproval in a timely manner after the request for amendment is received. If the amendment to the Decree is substantial, Ecology will provide public notice and opportunity for comment. Reasons for the disapproval shall be stated in writing. If Ecology does not agree to any proposed amendment, the disapprement may be addressed through the dispute resolution procedures described in Section XIV of this Decree.

### XVI. EXTENSION OF SCHEDULE

A. An extension of schedule shall be granted only when a request for an extension is submitted in a timely fashion, generally at least thirty (30) days prior to expiration of the deadline for which the extension is requested, and good cause exists for granting the extension. All extensions shall be requested in writing. The request shall specify the reason(s) the extension is needed.

An extension shall be granted only for such period as

Ecology determines is reasonable under the circumstances. A

requested extension shall not be effective until approved by

- (1) Circumstances beyond the reasonable control and despite the due diligence of Defendant including delays caused by unrelated third parties or Ecology, such as (but not limited to) delays by Ecology in reviewing, approving, or modifying documents submitted by Defendant; or
- (2) Acts of God, including weather, fire, flood, blizzard, extreme temperatures, storm, earthquake, unusual wave or water conditions, strikes or other labor disputes or other unavoidable casualty;
  - (3) Endangerment as described in Section XVII; or
- (4) Good faith implementation of the dispute resolution process described in Section XIV.

However, neither increased cost of performance of the terms of this Decree nor changed economic circumstances shall be considered circumstances beyond the reasonable control of Defendant.

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- (1) Delays in the issuance of a necessary permit which was applied for in a timely manner; or
- (2) Other circumstances deemed exceptional or extraordinary by Ecology; or
  - (3) Endangerment as described in Section XVI.

Ecology shall give Defendant written notification in a timely fashion of any extensions granted pursuant to this Decree.

### XVII. ENDANGERMENT

In the event Ecology determines that activities implementing or in compliance with this Decree, or any other circumstances, or activities, 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 Defendant to stop further implementation of this Decree for such period of time as needed to abate the danger or may petition the Court for an order, as appropriate. During any stoppage of work under this Section, the obligations of Defendant with respect to the work under this Decree which is ordered to be stopped shall be suspended and the time periods of performance of that work, as well as the time period for any other work dependent upon the work which is stopped, shall be extended, pursuant to Section XVI of this Decree, for such

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period of time as Ecology determines is reasonable under the circumstances.

In the event Defendant determines that activities undertaken in furtherance of this Decree or any other circumstances or activities are creating an imminent and substantial endangerment to the people on the Site or in the surrounding area or to the environment, Defendant may stop implementation of this Decree for such periods of time necessary for Ecology to evaluate the situation and determine whether Defendant should proceed with implementation of the Decree or whether the work stoppage should be continued until the danger is abated. Defendant shall notify Ecology's Project Coordinator as soon as possible, but no later than twenty-four (24) hours after such stoppage of work, and thereafter provide Ecology with documentation of the basis for the work stoppage. If Ecology disagrees with Defendant's determination, it may order Defendant to resume implementation of this Decree. If Ecology concurs with the work stoppage, Defendant's obligations shall be suspended and the time periods for performance of that work, as well as the time period for any other work dependent upon the work which was stopped, shall be extended, pursuant to Section XVI of this Decree, for such period of time as Ecology determines is reasonable under the circumstances. disagreements pursuant to this clause shall be resolved through the dispute resolution procedures described in Section XIV.

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Ecology, including the nature or quantity of 1 2 hazardous substances at the Site, and Ecology determines that these factors 3 present a previously unknown threat to human 4 5 health or the environment; 6 If Ecology determines that action beyond the 3. 7 terms of this Decree is necessary to abate 8 an emergency that threatens human health or 9 the environment; and If activities conducted on the Pump Station 10 4. Area of the Site lead to the release of 11 hazardous substances. 12 13 в. Applicability: The Covenant Not to Sue set forth above has no applicability whatsoever to: 14 15 Any Ecology action against persons not a party to this Decree; or 16 Liability for injury to, destruction of, or loss of natural resources. 18 XIX. INDEMNIFICATION 19 20 Defendant agrees to indemnify and save and hold the State 21 of Washington ("the State"), its employees and agents harmless 22 from any and all claims or causes of action for death or 23 injuries to persons or for loss or damage to property arising 24 from or on account of acts or omissions of Defendant, its

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officers, employees, agents, or contractors in implementing this

Decree. Defendant shall not, however, indemnify the State nor

save nor hold its employees and agents harmless from any claims or causes of action arising out of negligent acts or omissions of the State, or the employees or agents of the State, in implementing activities pursuant to this Decree.

#### XX. RESERVATION OF RIGHTS

By agreeing to the entry of this Decree, Defendant agrees to abide by its terms. The execution and performance of the Decree is not, however, an admission by Defendant of any fact or liability for any purpose other than as a foundation for the entry of this Decree. Performance by Defendant as required under the Decree is undertaken without waiver of or prejudice to any claims or defenses whatsoever that may be asserted in the event of further litigation about or relating to the Site, with the exception of an action by Ecology to enforce this Decree. Nor is the execution or the performance of the Decree an agreement by Defendant to take any action at the Site other than that described in this Decree.

### XXI. COMPLIANCE WITH APPLICABLE LAWS

All actions carried out by Defendant pursuant to this

Decree shall be done in accordance with all applicable federal,

state, and local requirements, including requirements to obtain

necessary permits.

### XXII. REMEDIAL AND INVESTIGATIVE COSTS

The Defendant agrees to pay costs incurred by Ecology pursuant to this Decree. These costs shall include work performed by Ecology or its contractors for investigations,

remedial actions, and Decree preparation, negotiations, oversight and administration. Ecology costs shall include costs of direct activities; e.g., employee salary, travel costs, laboratory costs, contractor fees, and employee benefit packages; and Ecology indirect costs of direct activities. The Defendant agrees to pay the required amount within ninety (90) days of receiving from Ecology an itemized statement of costs that includes a summary of costs incurred, an identification of involved staff, and the amount of time spent by involved staff members on the project. A general statement of work performed Itemized statements shall be will be provided upon request. prepared quarterly. Failure to pay Ecology's costs within ninety (90) days of receipt of the itemized statement will result in interest charges at the rate of twelve (12) percent per annum.

### XXIII. IMPLEMENTATION OF REMEDIAL ACTION

If Ecology determines that Defendant has failed without good cause to implement the remedial action, Ecology may, after notice to Defendant, perform any or all portions of the remedial action that remain incomplete. If Ecology performs all or portions of the remedial action because of the Defendant's failure to comply with its obligations under this Decree, Defendant shall reimburse Ecology for the costs of doing such work in accordance with Section XXI, provided that Defendant is not obligated under this section to reimburse Ecology for costs

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### XXIV. PUBLIC PARTICIPATION

Ecology shall maintain the responsibility for public participation at the Site. However, Defendant shall cooperate with Ecology and, if agreed to by Ecology, shall:

- A. Prepare drafts of public notices and fact sheets at important stages of the remedial action, such as the submission of work plans, Remedial Investigation/Feasibility Study reports and engineering design reports. Ecology will finalize (including editing if necessary) and distribute such fact sheets and prepare and distribute public notices of Ecology's presentations and meetings;
- B. Notify Ecology's project coordinator prior to the preparation of all press releases and fact sheets, and before major meetings with the interested public and local governments. Likewise, Ecology shall notify Defendant prior to the issuance of all press releases and fact sheets, and before major meetings with the interested public and local governments;
- C. Participate in public presentations on the progress of the remedial action at the Site. Participation may be through attendance at public meetings to assist in answering questions, or as a presenter;
- D. In cooperation with Ecology, arrange and/or continue information repositories to be located at the Texaco Refining and Marketing Inc. refinery, 600 South Texas Road, Anacortes,

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Washington, and Ecology's Industrial Section Office at 2404
Chandler Court S.W., Olympia, Washington. At a minimum, copies
of all public notices, fact sheets, and press releases; all
quality assured ground water, surface water, soil sediment, and
air monitoring data; remedial actions plans, supplemental
remedial planning documents, and all other similar documents
relating to performance of the remedial action required by this
Decree shall be promptly placed in these repositories.

### XXV. DURATION OF DECREE

This Decree shall remain in effect and the remedial program described in the Decree shall be maintained and continued until the Defendant has received written notification from Ecology that the requirements of this Decree have been satisfactorily completed.

### XXVI. CLAIMS AGAINST THE STATE

Defendant hereby agrees that it will not seek to recover any costs accrued in implementing the remedial action required by this Decree from the State of Washington or any of its agencies and, further, that the Defendant will make no claim against the State Toxics Control Account or any Local Toxics Control Account for any costs incurred in implementing this Decree. Except as provided above, however, Defendant expressly reserves its right to seek to recover any costs incurred in implementing this Decree from any other potentially liable person.

### XXVII. EFFECTIVE DATE

This Decree is effective upon the date it is entered by the Court.

### XXVIII. PUBLIC NOTICE AND WITHDRAWAL OF CONSENT

This Decree has been the subject of public notice and comment under RCW 70.105D.040(4)(a). As a result of this process, Ecology has found that this Decree will lead to a more expeditious cleanup of hazardous substances at the site.

If the Court withholds or withdraws its consent to this

Decree, it shall be null and void at the option of any party and
the accompanying Complaint shall be dismissed without costs and
without prejudice. In such an event, no party shall be bound by
the requirements of this Decree.

### XXIX. SERVICE OF SUMMONS AND COMPLAINT

Texaco hereby agrees to accept service of the summons and complaint that will be filed in this matter by mail upon the following person at the following address:

Randall P. Beighle
Lane Powell Spears Lubersky
1420 Fifth Avenue
Suite 4100
Seattle, Washington 98101

By agreeing to accept service in this manner, Texaco expressly waives the formal service requirements set forth in Rule 4 of the Washington Rules of Civil Procedure and any applicable local rules of this court.

. 1	SIGNED by the Parties on the	dates indicated below.
2	STATE OF WASHINGTON DEPARTMENT OF ECOLOGY	TEXACO REFINING AND MARKETING INCORPORATED
3 4 5	By CAROL FLESKES Program Manager Toxics Cleanup Program	Ву
6	Department of Ecology	Data
7	Date 7-8-93	Date
8	STATE OF WASHINGTON OFFICE OF ATTORNEY GENERAL	LANE POWELL SPEARS LUBERSKY
9	h. 2 1	
10	anya Darnet	
	TANYA BARNETT, WSBA #17491 Assistant Attorney General	RANDALL P. BEIGHLE WSBA #13421
11	Attorneys for State of	Attorney for Texaco
.11	Washington	Marketing and Refining Inc.
12	•	
12	Date July 8, 1993	Date
	<del></del>	Date day
13	<del></del>	
13	THIS DECREE is approved and	
13 14 15 16	THIS DECREE is approved and	
13 14 15 16	THIS DECREE is approved and	IT IS SO ORDERED this day  SUPERIOR COURT JUDGE
13 14 15 16	THIS DECREE is approved and of, 1993.	IT IS SO ORDERED this day
13 14 15 16	THIS DECREE is approved and	IT IS SO ORDERED this day  SUPERIOR COURT JUDGE
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13 14 15 16 17 18 19 20 21 22 23 24	THIS DECREE is approved and of, 1993.	IT IS SO ORDERED this day  SUPERIOR COURT JUDGE
13 14 15 16 17 18 19 20 21 22 23	THIS DECREE is approved and of, 1993.	IT IS SO ORDERED this day  SUPERIOR COURT JUDGE

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÷	signed by the Parties on	
	2 STATE OF WASHINGTON	he dates indicated below.
	DEPARTMENT OF ECOLOGY	TEXACO REFINING AND MARKETIN
	4 By (me ) The stay by Day	$\Omega$
	CAROL FLESKES	By Xleun G, Weiss
(	Program Manager Toxics Cleanup Program Department of Ecology	
7	Date 7-8-93	
		Date 8/10/93
9	OFFICE OF ATTORNEY GENERAL	LANE POWELL SPEARS LUBERSKY
10	Janya Barrett	$\bigcirc$ $\bigcirc$ $\bigcirc$
11	I ANIA BARNETT MODE "	RANDALL P. BEIGHT
	Attorneys for State of	WSBA #13421
12	Washington	Attorney for Texaco
13	Date July 8, 1993	Marketing and Refining Inc.
14	0	Date 28,1993
	THIS DECREE is approved and	IT IS SO ORDERED this 8 day
15	of (1993.	day
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18		SUPERIOR COURT JUDGE
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ATTORNEY GENERAL OF WASHINGTON
Ecology Division
PO Box 40117
Olympia, WA 98504-0117
FAX (206) 438-7743

### Blackberry Ditch

Task 1. Install an underdrain weir upstream of the culvert that crosses West March Point Road.

An underdrain weir shall be installed upstream of the culvert that crosses beneath West March Point road from the Blackberry Ditch. The weir shall prevent the discharge of floating immiscible fluids to Fidalgo Bay following sediment disturbances in the ditch resulting from remediation activities. The weir shall be constructed similarly to that illustrated in Figure 3; Exhibit F.

Task 2. Excavate soil/sediment from the north-south portion of the ditch located east of the railroad tracks. Contamination of sediments in excess of the cleanup standard appears to be limited to the north-south portion of the blackberry ditch east of the Shell railroad spur. Texaco shall conduct further excavation of the upper ditch sediment in the vicinity of sample location BD-9 (Figure 10; Exhibit F). Any other locations where hydrocarbons are observed within this segment of the ditch shall also be excavated. The extent and depth of excavation shall depend on field observations of all hydrocarbonimpacted sediment.

### Task 3. Verification sampling.

Three soil samples shall be collected for TPH analysis from the north-south segment of the blackberry ditch following the completion of excavation activities. The samples shall be collected where the oil impacted sediments were previously observed. Each sample shall consist of a composite of a 0 - 6 in. ditch-bottom and 0 - 6 in. sidewall sample. If any sample exceeds the cleanup standard, additional excavation shall be undertaken in the vicinity of the sample location.

### Task 4. Bioremediate as necessary.

If during the course of the excavation, it appears that in situ bioremediation of the ditch sediments is practical, excavation activities shall be terminated. This decision shall be based on the nature of contamination and the physical properties of the ditch sediment. The bioremediation activities shall consist of tilling the sediments using a hand-operated power tiller. The necessity for nutrient application shall be assessed following the analysis of a composite soil sample for soil fertility parameters and trace metals (total organic carbon, total and available phosphorus, total and available potassium, total Kjeldahl nitrogen, total boron, total copper, total manganese, total zinc, and total iron). If deemed necessary, nutrients shall be applied.

To assess the effectiveness of the remedial operation, a composite sample consisting of five randomly-selected locations within the north-south trending section of the blackberry ditch, shall be collected quarterly and analyzed for TPH. Additionally, a "worst case" sample shall be collected quarterly from the vicinity of sample location BD-9, and analyzed for TPH.

The bioremediation program shall be terminated when TPH concentrations in both samples are below the cleanup standard given in Exhibit C. No additional verification samples shall be collected following this demonstration:

Task 5. Remove underdrain weir.

Due to concerns regarding the effect of ponded water on the stability of the West March Point Road and railroad beds, the underdrain weir shall be removed from the blackberry ditch following the demonstration of compliance with the cleanup standard for soils.

### Pump Area

Task 1. Excavate soil from the area between the booster pumps and service road.

Oily soil shall be excavated from the area between the booster pumps and service road. Due to the high density of buried piping in the vicinity, it will not be feasible to remove soils below approximately 3 ft in depth. The visible soil contamination in this area appears to be limited to the immediate vicinity of sample location BP-1. (Figure 15; Exhibit F) All visibly-oiled soils that can feasibly be removed shall be excavated from this area.

Task 2. Verification sampling.

Three soil samples shall be collected from 0 - 1 ft in depth from the excavated area and analyzed for TPH. Soil sampling locations shall be randomly-selected based on a grid. If any sample exceeds the cleanup standard (Exhibit C) for TPH, a health based risk assessment can be conducted to determine an alternative cleanup standard. The protocol for determining what analytes constitute the potentially hazardous substances associated with petroleum is currently being developed by the Department of Ecology. When the protocol for the demonstration as outlined in WAC 173-340-740(3) is developed, a "worst case" sample shall be collected from the location exhibiting the highest TPH concentrations. The sample shall be analyzed for the hazardous substances associated with petroleum using Methods outlined in the A health-based risk assessment shall be conducted based on protocol. detections of any of these analytes as outlined in WAC 173-340-740(3). If the area is found to be below the risk based standard (Exhibit C) for each of the hazardous substances associated with petroleum, then the area will be considered clean.

Task 3. Installation of a groundwater monitoring well and maintenance of the pump station shallow drain. If soil with concentrations of TPH exceeding 200 ppm is left in place after the excavation and Ecology's protocol for determining the potentially hazardous substances associated with petroleum has not yet been developed, or if Ecology's protocol has been developed and a "worst case" sample collected in accordance with Task 2 contains concentrations of petroleum constituents that exceed Method B levels of such substances, then a groundwater monitoring well shall be installed

hydraulically downgradient (west) of the pump area on the Texaco property (Figures A-1 and A-2). The well shall be installed in the uppermost zone of saturation with the well screen positioned across the water table if possible. The well shall not be installed until Ecology has approved its location. Groundwater shall be monitored according to methods described in Exhibit D.

The shallow drain system located west of the pump station shall be inspected periodically and maintained to insure proper operation. The drainage water shall be removed and treated in the Texaco effluent treatment plant.

Task 4. File restrictive covenant. If Texaco determines that any soil sample exceeds the cleanup standard of 200 ppm TPH, and Ecology's protocol for determining the potentially hazardous substances associated with petroleum has not been developed, or if Ecology's protocol has been developed and a "worst case" sample collected in accordance with Task 2 contains concentrations of petroleum constituents that exceed Method B levels for such substances, then Texaco shall within 30 days of receipt of laboratory analysis results file with the office of the Skagit County Auditor the restrictive covenant set forth in Exhibit G. Texaco may thereafter seek Ecology's permission to record an instrument providing that this restrictive covenant no longer limit uses of the site or is of any further force or effect. Ecology may grant this permission only in accordance with the terms of the restrictive covenant, and only if Texaco demonstrates that soils in the Pump Area meet the cleanup standard established in this Decree.

### Catchment Basin

Task 1. Delineation sampling.

The extent of TPH contamination in the catchment basin shall be further delineated through additional soil sampling of the 0 - 6 in. interval of the basin bottom and sidewalls. Five soil samples shall be collected from this interval. The sample distribution shall consist of one sample collected from each of three of the four basin sidewalls. Each sidewall sample shall be collected from a randomly-selected location within the stain line resulting from impounded oil following the spill. Two samples shall additionally be collected from randomly-selected locations within the basin floor.

If the TPH concentration in any sample exceeds the cleanup standard, an additional sample shall be collected from the 6 - 12 in. interval at that location. This procedure shall be repeated in 6 in. increments until the depth and areal extent of TPH contamination in excess of the cleanup standard has been delineated.

If all samples comply with the TPH cleanup standard, the remedial activities at the catchment basin will be considered completed.

Task 2. In situ bioremediation of soils.

If the TPH concentration in any sample exceeds the cleanup standard, a bioremediation program shall be undertaken. Soils shall be tilled within the basin bottom and sidewalls using typical agricultural equipment. Nutrients shall be added as necessary under the criteria listed in Blackberry Ditch, Task 4, to facilitate the degradation of hydrocarbons in the soils. One discrete sample and one composite sample of five randomly-selected locations shall be collected quarterly to assess the effectiveness of the remedial program.

If the preliminary soil sampling exercise indicates that the TPH concentrations exceed the cleanup standards below 1 ft in depth, "treat and strip" methodology shall be used. Once the upper foot of material has been successfully remediated, the layer shall be stripped and piled in a portion of the basin where further remediation shall not be necessary. The next foot of material shall then undergo treatment as outlined above. This process shall be repeated until the TPH concentrations meet the cleanup standard of 200 ppm.

Task 3. Verification sampling.
When sampling completed in Task 2 indicates that the TPH levels are below the cleanup standards, a confirmational soil sampling exercise shall be conducted. Five discrete soil samples shall be collected from randomly-selected locations within the treated area of the basin and analyzed for TPH. The samples shall collected over the depth interval of the treated soil layer(s). If the TPH concentration in any sample exceeds the cleanup standard, additional remediation shall be conducted in the vicinity of the sample. The location shall be resampled quarterly until the TPH levels comply with the cleanup standard.

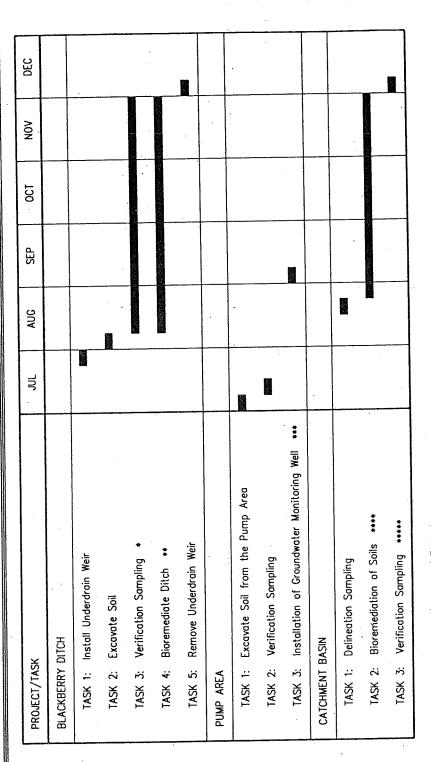
### Flare Area Land Treatment Facility

The remediation of soils excavated from the spill site shall be continued at the temporary Flare Area Land Treatment Facility (FLTF) until all spill-related soils comply with the cleanup standard. The plots shall be tilled at a minimum of once a week throughout the field season. Nutrients shall be applied as needed based on the results of periodic soil fertility analyses. The plots shall be irrigated, if necessary, to facilitate the hydrocarbon degradation process.

The degradation of hydrocarbons in the plots shall be tracked through the collection of soil samples for TPH analysis at least semi-annually. One discrete "hot spot" sample and one composite sample shall be collected from each of the two plots. The composite sample shall consist of a minimum of 10 individual samples collected randomly throughout each plot after tilling. Soils shall be applied in six inch lifts when TPH concentrations are below 200 mg/kg in both samples at an individual plot. The compliance monitoring program for the FLTFs is outlined in Exhibit D.

# EXHIBIT B

# SCHEDULE OF REMEDIAL ACTIVITIES



Timing may be dependent on implementation of Task 4 Inplementation dependent on field observations during Task 2 Installation dependent upon results of Tasks 1 & 2
Necessity dependent upon results on Task 1

Schedule of remedial activities.

prepared for:
TEXACO

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PROJECT.	701092005-237 (ACTSCH)	37 (ACTSCH)
I OCATION:	ANACORTES. V	WASHINGTON
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APPR.		DATE: 04/07/93
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# EXHIBIT C

# SOIL AND GROUNDWATER CLEANUP STANDARD

#### EXHIBIT C

#### SOIL AND GROUNDWATER CLEANUP STANDARD

#### 1.0 Soil Cleanup Standard

#### 1.1 MTCA Methodology and Standard

The Method A (WAC 173-340-740 (2)(a)(i)) soil cleanup standard of 200 mg/kg TPH shall apply to the Munks' west pasture, blackberry ditch along the Shell Oil spur, and the catchment basin and pump area on the Texaco property. WDOE Method WTPH 418.1 modified shall be used exclusively for the TPH analyses.

Due to the sporadic distribution of hydrocarbon contamination noted in 1991 field activities, no statistical analysis will be conducted on the results of the soils analyses at the site. Therefore, all samples collected for verification of cleanup standard compliance for each area shall contain less than 200 mg/kg TPH before the remediation of the area is considered complete.

If the TPH criterion cannot be met at the pump area Texaco shall apply a deed restriction (Exhibit G) to the area and begin groundwater compliance monitoring (Exhibit D). Then a health-based assessment of individual hazardous petroleum constituents can be conducted based on a "worst case" TPH sample. Soil cleanup levels shall be determined using the Method B equations outlined in WAC 173-340-740(3)(iii). The protocol for determining individual hazardous petroleum constituents is being developed by the Department of Ecology. The protocol shall be used to determine individual hazardous substances associated with petroleum.

The semi-annual soil cores collected during the compliance monitoring (Exhibit D) from the Flare Area Land Treatment Facility shall be analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), in addition to TPH. EPA method 8020 shall be used for the determination of BTEX. The cleanup standard for benzene shall be 0.5 mg/kg, for toluene shall be 40.0 mg/kg, for ethylbenzene shall be 20.0 mg/kg, and for xylenes shall be 20.0 mg/kg (Table 3; WAC 173-340-740(2)(a)(i)).

#### 1.2 Soil Sampling Protocol

Soil samples shall be collected using either a stainless-steel auger or hand trowel. Composite samples shall be thoroughly mixed in a stainless-steel or glass container before being placed into sample containers. Sample containers shall consist of sterilized glass jars with Teflon lids. All sampling equipment shall be decontaminated between the collection of each sample.

Sample locations and descriptions shall be recorded in the field by a qualified geologist or soil scientist. Chain-of-custody forms shall accompany each batch of samples from the time of sample collection to delivery to the contracted analytical laboratory. A minimum of one duplicate sample shall be collected for each 10 samples collected.

### 2.0 Groundwater Cleanup Standard

### 2.1 MTCA Methodology and Standard

The Method A (WAC 173-340-720 (2)(a)(i)) groundwater standard of 1.0 mg/liter TPH and BETX standards of 5.0 ug/liter benzene, 30.0 ug/liter ethylbenzene, 40.0 ug/liter toluene, and 20.0 ug/liter xylenes shall apply to the monitoring well located at the pump area on Texaco property.

#### 2.2 Groundwater sampling Protocol

Groundwater samples shall be collected using a dedicated disposable bailer or dedicated sampling pump. The elevation of the groundwater in monitoring wells shall be measured and recorded in a field notebook prior to sampling and purging. Three well volumes of water shall be evacuated or the well shall be bailed dry, before sampling the well. The pH and electrical conductivity of groundwater shall be tested within two hours of sampling the well and the results placed in the field notebook.

### EXHIBIT D

### COMPLIANCE MONITORING PLAN

#### EXHIBIT D

#### COMPLIANCE MONITORING PLAN

Compliance monitoring shall consist of groundwater monitoring at the pump station area of the spill site, if oily soils are left in place, and at the Flare Area Land Treatment Facility (FLTF); and soil-pore water and soil sampling at the FLTF.

#### 1.0 PUMP STATION AREA GROUNDWATER MONITORING

#### 1.1 Groundwater Monitoring

Texaco shall perform groundwater monitoring at the site for five years. Texaco's obligation to perform groundwater monitoring shall commence when it determines that any soil sample taken from the Pump Area, as required under Pump Area, Task 2 of Exhibit A, exceeds the 200 ppm TPH cleanup standard, or when it determines that a "worst case" soil sample collected in accordance with Pump Area, Task 2 of Exhibit A, contains petroleum constituents that are identified in Ecology's protocol and that exceed in concentration the Method B levels for such substances, whichever comes first. A monitoring well shall be installed downgradient of the pump area on the Texaco property at a location approved by Ecology (Figure A-2). Groundwater samples shall be collected quarterly for the first two years and analyzed for BTEX and TPH. After the initial two years of sampling, groundwater samples shall be collected and analyzed for these same constituents annually for an additional three years. At the end of this period Texaco and Ecology shall exchange proposals to amend this Exhibit (pursuant to Section XV AMENDMENT OF CONSENT DECREE) with regard to whether continued groundwater monitoring is necessary to protect human health or the environment, and if so what would constitute an appropriate monitoring regime. Ecology and Texaco shall exchange proposals to amend, in the manner just described, at five year intervals thereafter until levels of TPH, or individual hazardous substances associated with petroleum, as listed in Ecology's protocol, in soil on the site drop below the cleanup standard(s). Texaco may terminate this groundwater monitoring program at any time after receipt of results showing, and concurrence by Ecology, that soils in the Pump Area no longer contain petroleum or petroleum constituents in concentrations that exceed the cleanup standards established in this Decree. For purposes of determining whether Pump Area soils meet these standards, Texaco may use either the 200 TPH standard or the Method B standards for each of the hazardous substances to be identified in Ecology's protocol.

1.2 Groundwater Sampling Protocol
The elevation of groundwater in the well shall be measured and recorded in the field notebook prior to sampling. Three well volumes of water shall be evacuated, or the well shall be bailed dry, before sampling the well. Each well shall be sampled using a dedicated disposable bailer.

The Ph and electrical conductivity of groundwater shall be tested within two hours of sampling the well and the results recorded in the field notebook.

If any petroleum constituent is detected above the Method A cleanup standards for groundwater listed in Table 1 WAC 173-340-720(2)(a)(i), the well shall be resampled and the sample split for concurrent analyses at independent laboratories for verification. Texaco shall report the results of the verification sample to the WDOE within 30 days of receipt. Within 60 days of the notification, Texaco shall submit a plan for addressing the contamination. This plan shall ensure that the groundwater cleanup standard is met. Texaco and Ecology shall then enter into negotiations to amend this Decree to require remediation of the groundwater contamination.

### 2.0 FLARE AREA LAND TREATMENT FACILITY

- 2.1.1 Groundwater Monitoring
  The groundwater monitoring wells installed east of the FLTF plots (W-112 and W-113; Figure D-1) shall be monitored semi-annually for BTEX and TPH. Groundwater monitoring shall continue for two years following the final demonstration that treated oil spill soils comply with the cleanup standard for soil.
- 2.1.2 Groundwater Sampling Protocol
  The elevation of groundwater in the well shall be measured and recorded in the field notebook prior to sampling. Three well volumes of water shall be evacuated, or the well shall be bailed dry, before sampling the well. Each well shall be sampled using a dedicated disposable bailer. The pH and electrical conductivity of groundwater shall be tested within two hours of sampling the well and the results recorded in the field notebook.

If any petroleum constituent is detected above the Method A cleanup standards for groundwater listed in Table 1 WAC 173-340-720(2)(a)(i), the well shall be resampled and the sample split for concurrent analyses at independent laboratories for verification.

If the results of the analyses of the split samples confirm the presence of one or more constituents above the Method A cleanup levels, Texaco shall notify WDOE within 30 days of the confirmation. Within 60 days of the notification, Texaco shall submit a plan for groundwater quality assessment.

The groundwater quality assessment plan shall be implemented in such a manner as to determine, at a minimum, the following:

- The rate and extent of migration of the hazardous constituents in the groundwater; and
- The concentrations of hazardous constituents in the groundwater

At the conclusion of the groundwater quality assessment exercise, Texaco shall submit to WDOE a written report containing an assessment of the groundwater quality. If Texaco finds that no hazardous constituents have entered the groundwater from the FLTF, and Ecology concurs in this finding, the confirmatory groundwater monitoring program shall be reinstated. The groundwater quality assessment report shall contain a statement that indicates Texaco's intention to resume normal monitoring.

If the groundwater quality assessment confirms contaminated subsurface waters, Texaco shall continue the groundwater investigation and consult with WDOE on the most appropriate method of addressing the contamination.

#### 2.2 Lysimeter Sampling

The lysimeters installed at the FLTF plots shall be sampled semiannually for BTEX and TPH. Soil-pore water monitoring shall continue for two years following the demonstration that treated oil spill soils comply with the cleanup standard. If BTEX or TPH is detected above the Method A cleanup standards for groundwater listed in Table 1 WAC 173-340-720(2)(a)(i), the lysimeter shall be resampled and the sample split for concurrent analyses at independent laboratories for verification.

If the results of the analyses of the split samples indicates the presence of one or more of the TPH or BTEX constituents above the Method A cleanup levels, Texaco shall notify WDOE within 30 days of the confirmation. No additional soils shall be applied to the affected plot until an assessment of contaminant mobility is undertaken and approved by Ecology.

#### 3.1 Soil Core Sampling

Soil cores shall be collected within one foot below the treatment zone at the FLTFs following the final demonstration that treated oil spill soils comply with the cleanup standard. Four soil cores shall be collected from each of the two plots and analyzed for BTEX and TPH. The sample locations shall be randomly-selected based on a grid. Samples shall be collected using a drilling rig with split-spoon sampler. The sampling protocol for soils outlined in Exhibit C shall be followed.

If BTEX or TPH is detected above the Method A cleanup standards for soils listed in Table 3 WAC 173-340-740(2)(a)(i), the location shall be resampled and the sample split for concurrent analyses at independent laboratories for verification.

If the results of the analyses of the split samples indicates the presence of one or more of the constituents above the Method A cleanup levels, Texaco shall notify WDOE within 30 days of the confirmation. No additional soils shall be applied to the affected plot after confirmation of soil contamination below the treatment zone. Texaco

shall consult with WDOE regarding remedial action alternatives following the confirmational sampling.

### EXHIBIT E

# HEALTH AND SAFETY PLAN

# SITE SAFETY PLAN TEXACO OIL SPILL REMEDIATION - 1993

# PROJECT OBJECTIVE

This project will involve the following activities related to cleanup of crude oil impacted soils at the Texaco Puget Sound Plant (PSP):

1) Soil sampling, and the installation and sampling of groundwater monitoring wells.

2) Excavation and removal of contaminated soil.

# SITE DESCRIPTION

DATE: April - December, 1993

LOCATION: Anacortes, Washington

POTENTIAL HAZARDS: Volatile organic vapors (benzene, cyclohexane, toluene, ethylbenzene, xylene); hydrogen sulfide; polycyclic aromatic hydrocarbons; physical hazards associated with heavy equipment.

AREA AFFECTED: The area west of the ruptured booster pump between the refinery boundary and Fidalgo Bay (Figure A-1; Exhibit A).

SURROUNDING POPULATION: Shell refinery to the north and houses 1/2 mile to the south.

TOPOGRAPHY: Relatively flat; 0-3% slope.

WEATHER CONDITIONS: Rain, mild temperatures, occasional sunny days.

# BACKGROUND INFORMATION

A pump failure resulted in the release of crude oil onto soils on adjacent private lands (Munks' property) and into Fidalgo Bay. Emergency clean-up conducted by Texaco Environmental Services (TES) included the clean-up of Fidalgo Bay, and the removal of the first six-inches of topsoil on the Munks' property. Remedial action undertaken by Texaco in 1991 included the clean-up of the residual materials remaining on the Munks' property and other affected areas. During clean-up, potential hazards were reduced by the removal of contaminated soils.

### **ENTRY OBJECTIVES**

Soil and groundwater sampling to assess effectiveness of the 1991 remediation activities. Additional information and removal of contaminated soil, if necessary.

# ON-SITE ORGANIZATION AND COORDINATION

PROJECT MANAGER: Larry Padgett, Texaco PSP

SITE SAFETY OFFICER: Dan Gibboney; Texaco PSP

Alternate - Charlie Pendergrast; Texaco PSP

FIELD TEAM LEADER: Joe Haley, Texaco PSP

TEXACO REPRESENTATIVE(S): Joe Haley

Brian Rhodes Vern Stevens Rich Clasen

STATE AGENCY REP'S: Kim Anderson

LOCAL AGENCY REP'S: None

#### ON-SITE CONTROL

Texaco personnel will control access to the Texaco PSP and to the contaminated area. Joe Haley will be the Texaco representative for on-site control.

### HAZARD EVALUATION

Chemical Hazard Evaluation

The substances listed below are known to exist in crude oil (Appendix C, MSDS for Crude Oil) and could possibly be encountered during further excavation. The primary hazards associated with each of these substances is also listed.

SUBSTANCE	PHYSICAL STATE <sup>1</sup>	PRIMARY HAZARD <sup>2</sup>	ANTICIPATED CONCENTRATION	PERMISSIBLE EXPOSURE LIMIT IN AIR
Benzene Hydrogen Sulfide PAHs* par Toluene Xylene Ethylbenzene Cyclohexane	gas/vapor gas/vapor ticulates/vapor gas/vapor gas/vapor gas/vapor gas/vapor		< 10 ppm lermal < 10 ppm lermal < 10 ppm < 50 ppm	1 ppm 10 ppm 10 ppm 100 ppm 100 ppm 100 ppm 300 ppm

- 1- Liquid, solid, sludge, gas/vapor, particulates, other.
- 2- Toxic on inhalation or ingestion, absorbed through skin, irritant to eyes, irritant to respiratory tract, irritant to skin, other.
- \* = Polycyclic Aromatic Hydrocarbons

#### NOTE:

Potential contact with the hazardous substances listed above has been greatly reduced by removal of soils during the 1991 cleanup activities. A photoionization detector will be used during excavation to detect organic vapors that may warrant the use of respiratory protection. This site is not likely to contain any unknown chemical hazards.

### Physical Hazard Evaluation

Site activities present a number of routine physical hazards, including danger from construction vehicles, noise, and other safety hazards. In order to minimize these hazards, site workers must maintain a high degree of vigilance while moving about the site. Construction activities which present typical safety hazards include vehicle safety, avoidance of underground utilities, trenching and shoring, etc. All Washington State Administrative Codes shall be followed as reflected in WAC 296-155, Safety Standards for Construction Work; WAC 296-24, General Safety and Health Standards; and, WAC 296-62, General Occupation Health Standards.

# PERSONAL PROTECTIVE EQUIPMENT

Based on evaluation of potential hazards, the following levels of personal protection have been designated for the applicable work areas and tasks:

Location	Job Function	Protection Level	
Oil Spill Area Oil Spill Area Oil Spill Area Oil Spill Area	Confined Space Entry Soil Excavation Soil Sampling Groundwater Well Installation	Level C* Level D/C** Level D Level D	

<sup>\*</sup>Level C protection will be used only if sufficient oxygen is present and concentrations of airborne contaminants are below permissible exposure limits for the protection afforded.

Specific protective equipment for Level C and D protection is as follows:

Level C: Full or half-face air purifying respirator equipped with organic vapor cartridges.

Rain gear / Slicker suit / Tyvek (If necessary)

Hard-hats

Chemically resistant outer gloves. (if handling

contamination)
Chemically resistant safety boots (steel toed)

Goggles or safety glasses

Hearing protection (if necessary due to noise exposure)

Level D: Work clothing (i.e., long pants and long sleeve shirts)

Rain gear / Slicker suit / Tyvek (If necessary) Chemically resistant outer gloves (if handling

contamination) Safety boots Hard-hats

Goggles or safety glasses

Hearing protection (if necessary due to noise exposure)

There are no other specific protective clothing materials required for the necessary tasks.

<sup>\*\*</sup>Respiratory protection may be required if contaminated soils are encountered and organic vapors (as measured by a PID) exceed 5 ppm for time periods exceeding two minutes.

#### ENVIRONMENTAL MONITORING

A direct reading photoionization Detector (PID) will be used to monitor the background organic vapor concentration. If at any time a measurement of 5 ppm, or more, above background concentration (but less than 20 ppm) is observed to persist for a period of at least 2 minutes, the workers will retreat to a safe area. Air Purifying Respirators equipped with organic vapor cartridges will be worn if personnel return to the area where the PID measurements exceeded 5 ppm. If PID measurements exceed 20 ppm, personnel must retreat to a safe area until levels return to below 20 ppm.

The Texaco designated site safety officer is directly responsible for Texaco safety recommendations on site. A log of site activities and environmental measurements will be maintained by the site safety officer for the duration of the field work at this site.

### Respirators

Air purifying respirators equipped with organic vapor cartridges must be used when background concentrations exceed 5 ppm. If background concentrations exceed 20 ppm workers shall leave the area and shall not return until concentrations drop below 20 ppm.

Medical approval is required for any worker using a respirator. Personnel utilizing respiratory protection shall be in a medical surveillance program that authorizes the use of respiratory protection.

### NIOSH Approval

Properly cleaned and maintained NIOSH-approved respirators shall be used when appropriate. It is the responsibility of the individual worker to maintain their respirator.

### Changing Cartridges

As a minimum, air-purifying cartridges shall be replaced at the end of each shift, or after eight hours of use, whichever comes first. It is the workers responsibility to change cartridges at appropriate times.

### Breathing Resistance or Breakthrough

Employees wearing air-purifying respirators shall be required to change filter elements whenever an increase in breathing resistance or breakthrough is detected.

#### Fit Testing

Only employees who have had pre-issue qualitative or quantitative fit tests and training shall be allowed to work in atmospheres where respirators are required.

### Re-examination

If an employee experiences difficulty in breathing during the fit test or during use, he or she shall be reexamined by a physician to determine whether the employee can wear a respirator while performing the required duty.

#### Cleaning

Employees who wear respirators shall be allowed to leave the work area to wash their faces and respirator facepiece as needed to prevent potential skin irritation associated with respiratory use. Appropriate decontamination of the respirator will be conducted prior to exiting work areas.

#### Facial Hair

Facial hair that might interfere with achieving a good facepiece seal is prohibited.

#### Inspection

All respiratory protective equipment will be inspected and maintained on a regular schedule. The users of the respiratory protective equipment are responsible for this maintenance.

#### COMMUNICATION PROCEDURES

In the event that emergency response personnel are needed workers can contact any Texaco foreman or operator and have them contact the Boiler House on channel 4 or go to the nearest telephone and dial EXT 300 if on site or 911 if off site. Emergency phones are located throughout the refinery.

The following standard hand signals will be used when verbal communication is impossible:

Hand gripping throat

Grip partner's wrist or both hands around waist

• Hands on top of head

• Thumbs up

• Thumbs down

Out of air, can't breath

Leave area immediately

Need assistance

OK, I understand

No, negative

#### DECONTAMINATION PROCEDURES

In order that the contaminated materials are not spread from the site, proper decontamination procedures will be employed for both equipment and personnel.

#### Personnel Decontamination

- a. If contaminated, detergent wash boots, pants and outer gloves, and rinse with water prior to leaving the site.
- b. Workers are encouraged to wash hands, respirator facepiece, etc. numerous times throughout the day to minimize risk of dermal exposure.

#### Equipment Decontamination

- a. All equipment and vehicles which have entered the contaminated area must be inspected for cleanliness prior to leaving the site. If contaminated, they shall be power washed or steam cleaned.
- b. Sampling equipment and hand tools will be washed with detergent and rinsed with water prior to leaving the site.

#### EMERGENCY PROCEDURES

The following standard emergency procedures will be used by on-site personnel. The Site Safety Officer shall be notified of any on-site emergencies and be responsible for ensuring that the appropriate procedures are followed.

<u>Personnel Injury</u>: If necessary, emergency response personnel will be contacted as soon as an injury occurs. Upon notification of an injury in the support zone, the Project Leader and Site Safety Officer will assess the nature of the injury. If the cause of the injury or loss of the injured person affects the safety of others at the site - work will be discontinued until the problem is resolved. The Site Safety officer will be responsible for ensuring that the injured person(s) is treated in an appropriate manner.

Fire/Explosion: Upon notification of a fire or explosion on site (a "wildcat" whistle from the Boiler House), workers shall stop all hotwork activities and proceed as advised during the Texaco safety orientation meeting. If the fire is in the support zone workers will leave the area, in an upwind direction, and the fire department shall be alerted. If a worker leaves the site they must return to the contractors gate and notify Texaco that they are safe.

<u>Personal Protective Equipment Failure</u>: If any worker experiences a failure or alteration of protective equipment that affects the protection factor, that person shall immediately leave the affected area. Re-entry shall not be permitted until the equipment has been repaired or replaced.

Other Equipment Failure: If any other equipment on site fails to operate properly, the Field Team Leader shall be notified and must determine the effect of this failure on continuing operations on site. If the failure affects the safety of personnel work will be halted until the problem is fixed.

In all situations, when an on-site emergency results in evacuation of the oil spill area, personnel shall not reenter until:

- 1. The conditions resulting in the emergency have been corrected.
- 2. The hazards have been reassessed.
- 3. The Site Safety Plan has been reviewed.
- 4. Site personnel have been briefed on any changes in the site safety plan.

#### SITE SAFETY PLAN

Dan Gibboney / Dan Yount is the designated Texaco Site Safety Officer and is directly responsible for safety recommendations on site. All individuals on the contaminated site will have an orientation given by Texaco for instruction on Texaco's emergency procedures.

Emergency medical information for substances present:

Substance	Exposure symptoms	First-Aid
Volatile Organic compounds	Dizziness, nausea	Remove from immediate area; seek medical assistance
Hydrogen Sulfide $(H_2S)$	Dizziness, nausea, Irritant to eyes and skin	Remove from immediate area; seek medical assistance

### **Emergency Phone Numbers:**

Police: ext. 147 or 9-911 Fire: ext. 300 or 9-911

Medical Facility: Island Hospital in Anacortes

Hospital: (206) 293-3181

On-site Medical Facility:

Texaco Contact: Joe Haley

Facility Security:

(250) 253-3181

ext. 896

ext. 517

ext. 701

Any emergency can be reported on Texaco radio channel # 1. Appendix B is a map highlighting directions to Island Hospital in Anacortes.

### HEALTH SURVEILLANCE AND TRAINING CERTIFICATION

If respiratory protection is required, in accordance with OSHA and WISHA requirements, the employees involved in this project have been examined by a physician trained in occupational medicine, for the purpose of determining fitness with respect to handling hazardous materials and wearing personal protective equipment. The results of the examinations indicate that these employees are physically capable and qualified to work under the conditions described in this plan, without risk to personal health and safety.

The employees scheduled to participate in the tasks described in this plan have been trained in personal protection and safety in handling hazardous materials in accordance with 29 CFR 1910,120.

PROJECT NUMBER: _5384	
PROJECT NAME: Fidalgo Bay Spill	
PROJECT MANAGER:	

SAFETY PLAN APPROVAL

# THIS SAFETY PLAN HAS BEEN APPROVED BY TEXACO AND MUST BE ADHERED TO. ANY CHANGES TO THIS PLAN MUST BE APPROVED BY TEXACO.

The following personnel have read the contents of this plan and understand and agree to its provisions and to the Texaco Health and Safety provisions, and the provisions of the WISHA regulations referenced in this document. In addition, all personnel have completed the Texaco Health and Safety Orientation.

Project Manager:	_Date:
Site Safety Officer:	_Date:
Field Team Leader:	Date:
Field Team Member:	_Date:
Field Team Member:	Date:
Field Team Member:	_Date:
Field Team Member:	

### EXHIBIT F

REPORT OF THE INTERIM ACTION CLEANUP ACTIVITIES

AND REMEDIAL INVESTIGATION/FEASIBILITY STUDIES

RELATED TO THE FEBRUARY 22, 1991 CRUDE OIL SPILL

AT THE TEXACO PUGET SOUND PLANT

### EXHIBIT G

### RESTRICTIVE COVENANT

#### EXHIBIT G

#### RESTRICTIVE COVENANT

The property that is the subject of this Restrictive Covenant has been the subject of remedial action under Chapter 70.105D RCW. The work done to clean up the property (hereafter the "Cleanup Action") is described in the Consent Decree entered in State of Washington Department of Ecology v. Texaco Refining and Marketing Incorporated, Skagit County Superior Court No.\_\_\_\_\_\_\_, and in attachments to the Decree and in documents referenced in the Decree. This Restrictive Covenant is required by Ecology under Ecology's rule WAC 173-340-440 (1991 ed.) because the Cleanup Action on the Site resulted in residual concentrations of petroleum contaminants which exceed Ecology's Method A or Method B cleanup levels for soils established under WAC 173-340-740(2) or (3).

The undersigned, Texaco Refining and Marketing Incorporated, is the fee owner of real property in the County of Skagit, State of Washington (legal description attached), hereafter referred to as the "Pump Station Area of the Site". The pump station area of the site refers to two crude oil booster pumps and pipeways west of the pump station and the subsurface areas impacted by the petroleum contamination. More specifically, the Pump Station Area of the Site is an area bounded on the north by North Texas Road, on the west by Shell Oil railroad right of way, on the south by a line 150 feet south of North Texas Road and on the east by the western crude oil booster pump. Texaco Refining and Marketing Incorporated makes the following. declaration as to limitations, restrictions, and uses to which the Pump Station Area of the Site may be put, and specifies that such declarations shall constitute covenants to run with the land, as provided by law, and shall be binding on all parties and all persons claiming under them, including all current and future owners of any portion of or interest in the Pump Station Area of the Site.

 $\underline{\text{Section 1.}}$  No groundwater may be taken for domestic purposes from any well at the Pump Station Area of the Site.

Section 2. Any activity on the Pump Station Area of the Site that may interfere with the Cleanup Action is prohibited. Any activity on the Pump Station Area of the Site that may result in the release of a hazardous substance that was contained as part of the Cleanup or Interim Cleanup Action(s) is prohibited. The foregoing prohibitions notwithstanding, the owner may engage in activity in the Pump Station Area of the Site that is reasonable and necessary for the conduct of owner's petroleum refining business, including but not limited to excavation, inspection, repair or replacement of the crude oil transfer pipelines, booster pumps, or associated equipment. Owner shall give the Department of Ecology, or a successor agency, prior notice of any such activity, when a reasonable person would anticipate that the activity

may result in a release of a hazardous substance that has remained on the site following completion of the Cleanup or Interim Action(s).

Section 3. The owner of the Pump Station Area of the Site must give written notice to the Department of Ecology, or to a successor agency, of the owner's intent to convey any interest in the Pump Station Area of the Site. No conveyance of title, easement, lease or other interest in the Pump Station Area of the Site shall be consummated by the owner without adequate and complete provision for the continued operation, maintenance and monitoring of the Cleanup Action.

Section 4. The owner must notify and obtain approval from the Department of Ecology, or from a successor agency, prior to any use of the Pump Station Area of the Site that is inconsistent with the terms of this Restrictive Covenant. The Department of Ecology or its successor agency may approve such a use only after public notice and comment.

Section 5. The owner shall allow authorized representatives of the Department of Ecology, or of a successor agency, the right to enter the Pump Station Area of the Site at reasonable times for the purpose of evaluating compliance with the Cleanup Action Plan and the Consent Decree, to take samples, to inspect Cleanup Actions conducted at the Pump Station Area of the Site, and to inspect records that are related to the Cleanup Action.

Section 6. The owner of the Pump Station Area of the Site and the owner's assigns and successors in interest reserve the right under WAC 173-340-740 and WAC 173-340-440 (1991 ed.) to record an instrument which provides that this Restrictive Covenant shall no longer limit the use of the Pump Station Area of the Site or be of any further force or effect. However, such an instrument may be recorded only with the consent of the Department of Ecology, or successor agency. The Department of Ecology, or a successor agency may consent to the recording of such an instrument only after public notice and comment.

Nan	1e				
Tit	:le				
of	Texaco	Refining	and	Marketing,	Inc,

Date

### EXHIBIT H

### CLEANUP ACTION PLAN