

April 14, 2005
10077.009

Oregon Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, Oregon 97201-4987

VIA Email

Attention: Anna Coates

**Subject: Progress Report – March 2005
Remedial Investigation/Feasibility Study/Interim Removal Action Measures
Astoria Area-Wide Petroleum Site
Astoria, Oregon
DEQ ECSI File #2277**

Dear Ms. Coates:

This letter presents the progress made by the PRP Group during March 2005 on the RI/FS and IRAM development at the Astoria Area-Wide Petroleum Site in Astoria, Oregon. This work is being conducted in response to DEQ Order No. ECSR-NWR-01-11.

WORK COMPLETED DURING MARCH 2005

Preparation of a technical memorandum presenting data collected under the Upland Data Collection work plan was nearly completed. Follow-up work consisting of direct-push borings for additional characterization is planned and a work plan describing the proposed work is being prepared.

Preparation of a technical memorandum related to soil-gas monitoring near the Port office was completed for review by the PRP Group members. Arrangements for making precautionary adjustments to the HVAC system to provide a positive pressure inside the building were completed in March. The work plan for sub-slab sampling at the Port office building was initiated.

Cowlitz Clean Sweep (CCS) of Astoria, Oregon, installed product absorbent socks in nine site monitoring wells containing measurable product. These monitoring wells are located upland of Slip 2 and at the Delphia Oil site. The enhanced synthetic and floating absorbent boom system installed in Slip 2 was inspected.

The records relating to status of the decommissioning of Chevron/McCall petroleum pipelines were investigated in March.

The overall project schedule was evaluated and updated to reflect additions to the scope of work required to complete the RI/FS. The updated schedule, showing the percent complete of each task, is attached to this progress report.

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A meeting of the PRP Group representatives was held on March 1. A meeting between the PRP Group representatives and DEQ representatives was held on March 10.

WORK PLANNED FOR APRIL AND MAY 2005

The updated project schedule is attached to this monthly progress report. Active project work tasks include the following:

- Preparation of the technical memorandum describing evaluation of the vapor intrusion pathway near the Port office building;
- Preparation of a work plan for sub-slab sampling at the Port office building;
- Preparation for field work to implement the work plan for sub-slab sampling at the Port office building;
- Installation of equipment and adjustment the HVAC system in the Port office building;
- Product recovery via absorbent socks in monitoring wells upland of Slip 2 and at Delphia Oil;
- Maintenance of the absorbent boom system in Slip 2;
- Preparation of the technical memorandum presenting the data collected upland of the hydrocarbon seep at Slip 2;
- Preparation of a work plan for conducting additional characterization in the area upland of the hydrocarbon seep at Slip 2;
- Preparation for field work to implement the work plan to conduct additional characterization in the area upland of the hydrocarbon seep at Slip 2;
- Acquisition of proposed building plans for the development at the former Mobil/Niemi bulk plant;
- Finalization of the proposed RI report outline for submittal to DEQ;
- Compilation of data elements for the RI report;
- Preparation of the work plan for human health risk assessment; and
- Preparation of the work plan for ecological risk assessment.

An estimate of the percent complete for each of the tasks on the schedule is provided. The status of each task will be updated monthly on the project schedule for submittal to DEQ.

PROBLEMS ENCOUNTERED AND RESOLUTIONS

There are no problems requiring resolution in March.

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CLOSING COMMENTS

Please call me at (503)768-5121 if you have any questions or comments regarding this progress report.

Sincerely,

EnviroLogic Resources, Inc.

Thomas J. Calabrese

Thomas J. Calabrese, RG, CWRE
Principal/Hydrogeologist
Project Manager

cc: Distribution list attached

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**ASTORIA AREA-WIDE PETROLEUM SITE
Distribution List**

- 1 Anna Coates, DEQ Project Manager, Site Response
 - 1 Mike Lilly, Attorney for Port of Astoria
 - 1 Peter Gearin, Port of Astoria
 - 1 Tom Calabrese, *EnviroLogic Resources, Inc.*, Consultant for PoA and AAW PRP Group
 - 1 Max Miller, Tonkon Torp, Attorney for McCall Oil and Chemical Corporation
 - 1 Ted McCall, McCall Oil and Chemical Corporation
 - 1 John Edwards, Anchor Environmental, LLC, Consultant for McCall Oil and Chemical Corp
 - 1 Cary E. Bechtolt, Niemi Oil Company
 - 1 Jeff B. Kray, Marten Law Group, PLLC, Attorney for Niemi Oil Company
 - 1 Kurt Harrington, AMEC, Inc., Consultant for Niemi Oil Company
 - 1 Ed Platt, Shell Oil Company
 - 1 Rick Glick, Davis Wright Tremaine, Attorney for Shell Oil Company
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 - 1 Brian Harris, Harris Enterprises
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 - 1 David Bartz & Laura Maffei, Schwabe Williamson & Wyatt, Attorney for Flying Dutchman
 - 1 Jerry Hodson, Miller Nash, Attorney for Harris Enterprises
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 - 1 Richard Delphia, Delphia Oil Company
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 - 1 Darin Rouse, ChevronTexaco Products Company
 - 1 Jon Robbins, Attorney for ChevronTexaco Products Company
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 - 1 Brian Jacobson, Qwest Communications International, Inc.
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 - 1 Donna LaCombe, Tetra Tech EM, Inc., Consultant for Qwest Communications International
 - 1 Anita W. Lovely, Lovely Consulting, Inc., Consultant for Exxon Mobil Corporation
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-

UPDATED SCHEDULE (4/14/05)

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**

ID	Task Description	Duration	Start	Finish	Complete	Predecessors
1	ASTORIA AREA-WIDE PETROLEUM STUDY	1158 days	1/9/2002	8/17/2006		
2						
3	RI/FS and IRAM PROPOSAL	11 days	1/9/2002	1/21/2002	100%	
4						
17						
18	RI/FS and IRAM DEVELOPMENT WORK PLAN	124 days	1/9/2002	7/1/2002	100%	
19						
58						
59	PHASE 1/2 RI/FS and IRAM WORK PLAN IMPLEMENTATION	1041 days	1/9/2002	3/2/2006		
60						
61	SOURCE/SOIL CHARACTERIZATION	709 days	1/9/2002	11/1/2004	100%	
62	Phase 1 Source/Soil Characterization	269 days	1/9/2002	1/27/2003		
99	Phase 2 Soil Characterization	375 days	4/30/2003	11/1/2004		
124						
125	GROUND-WATER CHARACTERIZATION	574 days	8/12/2002	11/23/2004	100%	
126	Water-Level Measurement Program	524 days	8/12/2002	9/14/2004		
157	Beneficial Ground Water and Land Use Studies	126 days	8/27/2002	2/21/2003		
164	Monitoring-Well Installation Program	365 days	8/20/2002	2/5/2004		
185	Quarterly Ground-Water Monitoring Program	281 days	10/8/2003	11/23/2004		
230	Hydraulic Characterization Program (NOT CURRENTLY PLANN)	46 days	3/1/2004	5/4/2004		
238						
239	STORM/SURFACE WATER CHARACTERIZATION	586 days	8/19/2002	12/20/2004	100%	
240	Storm Water Monitoring Plan	117 days	8/19/2002	1/31/2003		
244	Quarterly Storm Water Monitoring Program	309 days	9/23/2003	12/20/2004		
289						
290	SEDIMENT CHARACTERIZATION	179 days	6/13/2003	3/8/2004	100%	
291	PHASE 1 SEDIMENT CHARACTERIZATION	100 days	6/13/2003	11/4/2003		
302	PHASE 2 SEDIMENT CHARACTERIZATION	1 day	3/8/2004	3/8/2004		301FS+30 edays
304						
305	IRAM DEVELOPMENT	952 days	5/13/2002	3/2/2006		
306	INDOOR AIR QUALITY IRAM DEVELOPMENT	742 days	12/27/2002	12/15/2005		
307	Comparison of Soil Data to Screening Levels	10 days	12/27/2002	1/10/2003	100%	81
308	Indoor Air IRAM Development	656 days	4/30/2003	12/15/2005		
309	Air Quality Sampling Work Plan	299 days	4/30/2003	7/15/2004	100%	
316	Vapor Intrusion Pathway Sampling	180 days	8/20/2004	5/9/2005	90%	167
317	DEQ Approval of Work Plan	1 day	8/20/2004	8/20/2004		315FS+25 days
318	Mobilization/Demobilization	5 days	9/16/2004	9/22/2004		317FS+17 days
319	Probe Installation and Sampling	10 days	9/23/2004	10/6/2004		318
320	Laboratory Analyses	20 days	9/24/2004	10/21/2004		319SS+1 day
321	Data Validation	5 days	10/22/2004	10/28/2004		320
322	Analytical Data Compilation	1 day	10/29/2004	10/29/2004		321
323	Develop Response to Initial Risk Analysis	8 days	12/15/2004	12/27/2004		586
324	Interim Round Sampling	3 days	12/28/2004	12/30/2004		323
325	Laboratory Analyses	10 days	1/4/2005	1/17/2005		324
326	Data Validation	10 days	1/18/2005	1/31/2005		325
327	Analytical Data Compilation	5 days	2/1/2005	2/7/2005		326
328	Round 2 Sampling	10 days	4/1/2005	4/14/2005		319FS+120 days
329	Laboratory Analyses	20 days	4/4/2005	4/29/2005		328SS+1 day
330	Data Validation	5 days	5/2/2005	5/6/2005		329
331	Analytical Data Compilation	1 day	5/9/2005	5/9/2005		330
332	Draft Vapor Intrusion Pathway Report	30 days	2/23/2005	4/5/2005		327FS+10 days
333	PRP Group Review	10 days	4/6/2005	4/19/2005		332
334	Final Vapor Intrusion Pathway Report	5 days	4/20/2005	4/26/2005		333
335	Submittal to DEQ	1 day	4/27/2005	4/27/2005		334
336	Sub-Slab Sampling	98 days	4/18/2005	9/6/2005	0%	
337	Draft Sub-Slab Sampling Work Plan Preparation	8 days	4/18/2005	4/27/2005		
338	PRP Group Review	5 days	4/28/2005	5/4/2005		337
339	Final Sub-Slab Sampling Work Plan	3 days	5/5/2005	5/9/2005		338
340	Submittal to DEQ	1 day	5/10/2005	5/10/2005		339
341	Sub-Slab Probe Installation	3 days	6/23/2005	6/27/2005		340FS+30 days
342	Soil Vapor Sampling	2 days	6/28/2005	6/29/2005		341
343	Laboratory Analyses	10 days	6/30/2005	7/15/2005		342
344	Data Validation	5 days	7/18/2005	7/22/2005		343
345	Analytical Data Compilation	5 days	7/25/2005	7/29/2005		344
346	Draft Sub-Slab Sampling TM	15 days	8/1/2005	8/19/2005		345
347	PRP Group Review	5 days	8/22/2005	8/26/2005		346
348	Final Sub-Slab Sampling TM	5 days	8/29/2005	9/2/2005		347
349	Submittal to DEQ	1 day	9/6/2005	9/6/2005		348
350	Air Quality Reporting and IRAM Work Plan	70 days	9/7/2005	12/15/2005	0%	
351	Air Quality Evaluation	10 days	9/7/2005	9/20/2005		336
352	Technology Screening (if necessary)	15 days	9/21/2005	10/11/2005		307,351
353	Detailed Evaluation of Alternatives (if necessary)	15 days	10/12/2005	11/1/2005		352
354	Implementation Plan Proposal (if necessary)	30 days	11/2/2005	12/15/2005		353
355	Prepare Draft Document	10 days	9/21/2005	10/4/2005		351
356	PRP Group Review	5 days	10/5/2005	10/11/2005		355
357	Final Air Quality TM or IRAM Work Plan	5 days	10/12/2005	10/18/2005		356
358	Submittal to DEQ	1 day	10/19/2005	10/19/2005		357
359	HVAC Adjustments	64 days	2/28/2005	5/26/2005	10%	
360	Contracting	30 days	2/28/2005	4/8/2005		
361	HVAC Adjustment	20 days	4/11/2005	5/6/2005		360
362	Prepare Documentation of Adjustment	5 days	5/9/2005	5/13/2005		361
363	PRP Group Review	5 days	5/16/2005	5/20/2005		362
364	Final Documentation	3 days	5/23/2005	5/25/2005		363
365	Submittal to DEQ	1 day	5/26/2005	5/26/2005		364
366	HYDROCARBON SEEP IRAM DEVELOPMENT	678 days	6/12/2003	3/2/2006		

UPDATED SCHEDULE (4/14/05)

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**

ID	Task Description	Duration	Start	Finish	Complete	Predecessors
367	Bail-Down Testing	3 days	6/12/2003	6/16/2003	100%	139
368	Water Quality Sampling at Seep MWs	2 days	6/17/2003	6/18/2003	100%	367
369	Product Removal	125 days	6/16/2003	12/15/2003	100%	
377	2004 A Product Removal	107 days	1/12/2004	6/10/2004	100%	
384	2004 B Product Removal	106 days	7/19/2004	12/16/2004	100%	
391	2005 Product Removal	232 days	3/30/2005	3/2/2006	20%	
392	2005 Product Removal 1	3 days	3/30/2005	4/1/2005		
393	2005 Product Removal 2	3 days	5/2/2005	5/4/2005		
394	2005 Product Removal 3	3 days	5/31/2005	6/2/2005		
395	2005 Product Removal 4	3 days	6/30/2005	7/6/2005		
396	2005 Product Removal 5	3 days	8/1/2005	8/3/2005		
397	2005 Product Removal 6	3 days	8/30/2005	9/1/2005		
398	2005 Product Removal 7	3 days	9/30/2005	10/4/2005		
399	2005 Product Removal 8	3 days	10/31/2005	11/2/2005		
400	2005 Product Removal 9	3 days	11/30/2005	12/2/2005		
401	2005 Product Removal 10	3 days	12/30/2005	1/4/2006		
402	2005 Product Removal 11	3 days	1/30/2006	2/1/2006		
403	2005 Product Removal 12	3 days	2/28/2006	3/2/2006		
404	Hydrocarbon Seep IRAM Work Plan	67 days	6/17/2003	9/22/2003	100%	
410	Hydrocarbon Seep IRAM Implementation	551 days	11/24/2003	2/10/2006		
411	IRAM Design/Build	206 days	11/24/2003	9/24/2004	100%	
420	O&M 2005 Month	233 days	3/10/2005	2/10/2006	25%	
421	O&M 2005 Month 1	4 days	3/10/2005	3/15/2005		
422	O&M 2005 Month 2	1 day	4/11/2005	4/11/2005		
423	O&M 2005 Month 3	1 day	5/10/2005	5/10/2005		
424	O&M 2005 Month 4	1 day	6/10/2005	6/10/2005		
425	O&M 2005 Month 5	1 day	7/11/2005	7/11/2005		
426	O&M 2005 Month 6	1 day	8/10/2005	8/10/2005		
427	O&M 2005 Month 7	1 day	9/12/2005	9/12/2005		
428	O&M 2005 Month 8	1 day	10/10/2005	10/10/2005		
429	O&M 2005 Month 9	1 day	11/10/2005	11/10/2005		
430	O&M 2005 Month 10	1 day	12/12/2005	12/12/2005		
431	O&M 2005 Month 11	1 day	1/10/2006	1/10/2006		
432	O&M 2005 Month 12	1 day	2/10/2006	2/10/2006		
433	Upland Data Collection	335 days	1/23/2004	5/20/2005		
434	UDC Work Plan	141 days	1/23/2004	8/12/2004	100%	
439	UDC Implementation	70 days	9/13/2004	12/21/2004	100%	
445	UDC Technical Memorandum	131 days	11/11/2004	5/20/2005	90%	
446	Draft UDC TM Preparation	110 days	11/11/2004	4/21/2005		443
447	PRP Group Review	10 days	4/22/2005	5/5/2005		446
448	Final UDC Technical Memorandum	10 days	5/6/2005	5/19/2005		447
449	Submittal to DEQ	1 day	5/20/2005	5/20/2005		448
450	Additional Product Characterization	155 days	2/24/2005	10/4/2005		
451	Work Plan Preparation	66 days	2/24/2005	5/26/2005	85%	
452	Draft Product Characterization Work Plan	45 days	2/24/2005	4/27/2005		620FS+10 days
453	PRP Group Review	10 days	4/28/2005	5/11/2005		452
454	Final Product Characterization Work Plan	10 days	5/12/2005	5/25/2005		453
455	Submittal to DEQ	1 day	5/26/2005	5/26/2005		454
456	Field Preparation	11 days	5/27/2005	6/13/2005	0%	
457	DEQ Approval of Work Plan	1 day	6/13/2005	6/13/2005		455FS+10 days
458	Utility Clearance Survey	5 days	5/27/2005	6/3/2005		455
459	Drilling Program	3 days	6/13/2005	6/15/2005	0%	
460	Mobilization/Demobilization	1 day	6/13/2005	6/13/2005		458FS+5 days
461	Install/Sample Borings	2 days	6/14/2005	6/15/2005		460
462	Analytical Program	40 days	6/16/2005	8/12/2005	0%	
463	Laboratory Analyses	20 days	6/16/2005	7/15/2005		461
464	Data Validation	10 days	7/18/2005	7/29/2005		463
465	Analytical Data Compilation	10 days	8/1/2005	8/12/2005		464
466	Reporting	155 days	2/24/2005	10/4/2005	0%	
467	Draft Product Characterization TM	15 days	8/15/2005	9/2/2005		465
468	PRP Group Review	10 days	9/6/2005	9/19/2005		467
469	Final Product Characterization TM	10 days	9/20/2005	10/3/2005		468
470	Submittal to DEQ	1 day	10/4/2005	10/4/2005		469
471	Project Management	109 days	2/24/2005	7/29/2005		452SS
472	TANK-BOTTOM WASTE IRAM DEVELOPMENT (McCALL BP)	750 days	5/13/2002	5/10/2005	95%	
473	Technology Screening	10 days	5/13/2002	5/24/2002		44
474	Detailed Evaluation of Alternatives	10 days	5/28/2002	6/10/2002		473
475	Implementation Plan Proposal	5 days	6/11/2002	6/17/2002		474
476	Review IRAM Implementation Report	5 days	5/4/2005	5/10/2005		167FS+500 days
477	FORMER MOBIL/NIEMI BULK PLANT IRAM	305 days	9/7/2004	11/21/2005		
478	IRAM Work Plan	120 days	9/7/2004	3/1/2005	100%	
479	Draft IRAM Work Plan Preparation	46 days	9/7/2004	11/9/2004		
480	PRP Group Review	10 days	11/10/2004	11/23/2004		479
481	Final IRAM Work Plan	15 days	11/24/2004	12/16/2004		480
482	Submittal to DEQ	1 day	12/17/2004	12/17/2004		481
483	Work Plan Revisions	45 days	12/20/2004	2/24/2005		482
484	DEQ Approval	3 days	2/25/2005	3/1/2005		483
485	UST Removal	48 days	9/20/2004	11/24/2004	100%	
503	IRAM Implementation	163 days	4/1/2005	11/21/2005		
504	Vapor Barrier/Extraction Design	65 days	4/1/2005	7/5/2005	0%	
505	Acquire Building Plans	30 days	4/1/2005	5/12/2005		
506	Draft Vapor Barrier/Extraction Design	15 days	5/13/2005	6/3/2005		505
507	PRP Group Review	5 days	6/6/2005	6/10/2005		506
508	Final Vapor Barrier/Extraction Design	5 days	6/13/2005	6/17/2005		507
509	Submittal to DEQ	5 days	6/20/2005	6/24/2005		508

UPDATED SCHEDULE (4/14/05)

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**

ID	Task Description	Duration	Start	Finish	Complete	Predecessors
510	DEQ Approval	5 days	6/27/2005	7/5/2005		509
511	Vapor Barrier/Extraction Construction	12 days	8/17/2005	9/1/2005	0%	
512	Mobilization/Demobilization	2 days	8/17/2005	8/18/2005		510FS+30 days
513	Drilling/SVE Well Installation	5 days	8/19/2005	8/25/2005		512
514	Vapor Barrier Construction Oversight	10 days	8/19/2005	9/1/2005		512
515	Soil Management Plan	31 days	5/13/2005	6/27/2005	0%	
516	Draft Soil Management Plan Preparation	20 days	5/13/2005	6/10/2005		505
517	PRP Group Review	5 days	6/13/2005	6/17/2005		516
518	Final Soil Management Plan	5 days	6/20/2005	6/24/2005		517
519	Submittal to DEQ	1 day	6/27/2005	6/27/2005		518
520	IRAM Implementation Technical Memorandum	56 days	9/2/2005	11/21/2005	0%	
521	Draft IRAM Implementation TM Preparation	40 days	9/2/2005	10/28/2005		514
522	PRP Group Review	10 days	10/31/2005	11/11/2005		521
523	Final IRAM Implementation TM	5 days	11/14/2005	11/18/2005		522
524	Submittal to DEQ	1 day	11/21/2005	11/21/2005		523
525	COMMUNITY RELATIONS ACTIVITIES	585 days	4/30/2003	9/2/2005		167
526						
527	PROJECT MANAGEMENT	862 days	7/10/2002	12/15/2005		
528	Phase 1 PM	257 days	7/10/2002	7/15/2003	100%	
549	Phase 2 PM	164 days	4/30/2003	12/30/2003	100%	
572	2004 A PM	242 days	1/5/2004	12/16/2004	100%	
617	2005 PM	588 days	8/8/2003	12/15/2005	33%	
618	PRP Group Meetings	234 days	1/11/2005	12/13/2005	50%	
631	DEQ Meetings	234 days	1/13/2005	12/15/2005	50%	
644	Monthly Progress Reports	234 days	1/10/2005	12/12/2005		
657	Schedule/Budget Tracking	126 days	1/4/2005	6/30/2005		
658	Project Coordination	126 days	1/4/2005	6/30/2005		
659	Response to Subpeona	473 days	8/8/2003	6/30/2005		
660						
661	REMEDIAL INVESTIGATION REPORT PREPARATION	526 days	4/12/2004	5/15/2006	5%	
662	RI Report Outline	150 days	4/12/2004	11/11/2004		574FS+60 days
663	RI Data Elements Compilation	90 days	1/21/2005	5/27/2005		662FS+45 days,204
664	Data Interpretation	90 days	5/31/2005	10/6/2005		663,120,263,298,204,446S
665	Draft RI Report	50 days	10/7/2005	12/19/2005		664
666	PRP Group Review	20 days	12/20/2005	1/19/2006		665
667	Final Draft RI Report	20 days	1/20/2006	2/16/2006		666
668	DEQ Review	30 edays	2/16/2006	3/18/2006		667
669	Final RI Report	20 days	3/20/2006	4/14/2006		668
670	DEQ Approval	1 day	5/15/2006	5/15/2006		669FS+30 edays
671						
672	RISK ASSESSMENT	563 days	3/1/2004	5/24/2006		
673	HUMAN HEALTH RISK ASSESSMENT	171 days	4/18/2005	12/20/2005	0%	
674	Human Health Risk Assessment Work Plan	41 days	4/18/2005	6/14/2005		81,193,298,252
675	Scoping/Data Management	10 days	4/18/2005	4/29/2005		663FS-30 days
676	Draft HHRA Work Plan	10 days	5/2/2005	5/13/2005		675
677	PRP Group Review	10 days	5/16/2005	5/27/2005		676
678	Meeting with DEQ	2 days	5/31/2005	6/1/2005		677
679	Final Draft HHRA Work Plan	10 days	5/16/2005	5/27/2005		676
680	PRP Group Review	5 days	5/31/2005	6/6/2005		679
681	Final HHRA Work Plan	5 days	6/7/2005	6/13/2005		680
682	Submittal to DEQ	1 day	6/14/2005	6/14/2005		681
683	Risk Assessment Report	171 days	4/18/2005	12/20/2005		
684	Draft HHRA Report	30 days	10/7/2005	11/17/2005		682,664
685	PRP Group Review	10 days	11/18/2005	12/5/2005		684
686	Final HHRA Report	10 days	12/6/2005	12/19/2005		685
687	Submittal to DEQ	1 day	12/20/2005	12/20/2005		686
688	Project Management	91 days	4/18/2005	8/25/2005		675SS
689	ECOLOGICAL EVALUATION	416 days	3/1/2004	10/21/2005		
690	Level 1 Ecological Evaluation	185 days	3/1/2004	11/18/2004	100%	
691	Source Document Compilation	5 days	3/1/2004	3/5/2004		574FS+30 days
692	Preliminary Field Assessment	15 days	3/29/2004	4/16/2004		691FS+15 days
693	Level 1 Status Meeting	1 day	4/19/2004	4/19/2004		692
694	L1 Eco Project Management	20 days	3/1/2004	3/26/2004		691SS
695	L1 ERA Report	45 days	4/19/2004	6/21/2004		692
696	PRP Group Review	15 days	6/22/2004	7/14/2004		695
697	Submittal to DEQ	10 days	7/15/2004	7/28/2004		696
698	Responses to DEQ	80 days	7/29/2004	11/18/2004		697
699	Ecological Risk Assessment Work Plan Development	31 days	4/18/2005	5/31/2005	0%	
700	Draft Ecological Risk Assessment Work Plan	15 days	4/18/2005	5/6/2005		698FS+100 days
701	PRP Group Review	10 days	5/9/2005	5/20/2005		700
702	Final Ecological Risk Assessment Work Plan	5 days	5/23/2005	5/27/2005		701
703	Submittal to DEQ	1 day	5/31/2005	5/31/2005		702
704	Level 2 Ecological Evaluation	194 days	3/8/2004	12/11/2004		
705	Level 2 Ecological Evaluation Work Plan (REPLACED)	194 days	3/8/2004	12/11/2004	xx	
706	Data Gaps Analysis	5 days	9/10/2004	9/16/2004		697FS+30 days
707	Problem Formulation	5 days	9/17/2004	9/23/2004		706
708	Draft L2 Eco Evaluation Work Plan	15 days	9/24/2004	10/14/2004		707
709	PRP Group Review	10 days	10/15/2004	10/28/2004		708
710	Final L2 Eco Evaluation Work Plan	10 days	10/29/2004	11/11/2004		709
711	DEQ Review	30 edays	11/11/2004	12/11/2004		710
712	L2 Eco Project Management	81 days	3/8/2004	6/29/2004		691
713	Ecological Risk Assessment	70 days	7/15/2005	10/21/2005		
714	Level 2 Ecological Field Program	30 days	7/15/2005	8/25/2005		703FS+30 days
715	Exposure Assessment	10 days	8/26/2005	9/9/2005		714
716	Effects Assessment	10 days	9/12/2005	9/23/2005		715

UPDATED SCHEDULE (4/14/05)

**Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon**

ID	Task Description	Duration	Start	Finish	Complete	Predecessors
717	Risk Characterization	20 days	9/26/2005	10/21/2005		716
718	REPORTING (REPORTS INCLUDED IN ABOVE TASKS)	128 days	11/18/2005	5/24/2006		
719	Draft Risk Assessment Report	60 days	11/18/2005	2/16/2006		684,717
720	PRP Group Review	15 days	2/17/2006	3/10/2006		719
721	Final Draft Risk Assessment Report	10 days	3/13/2006	3/24/2006		720
722	Submittal to DEQ	1 day	3/27/2006	3/27/2006		721
723	DEQ Review	30 edays	3/27/2006	4/26/2006		722
724	Final Risk Assessment Report	20 days	4/27/2006	5/24/2006		723
725						
726	FEASIBILITY STUDY	186 days	11/18/2005	8/17/2006	0%	
727	Feasibility Study Work Plan	75 days	11/18/2005	3/11/2006		
728	Establish Remedial Action Objectives	5 days	11/18/2005	11/28/2005		664,684,120,193,446
729	Identify General Response Actions	10 days	11/29/2005	12/12/2005		728
730	Determine Preliminary Remediation Goals	5 days	12/13/2005	12/19/2005		729
731	ID/Screen Remedial Technologies	10 days	12/20/2005	1/5/2006		730
732	Draft Feasibility Study Work Plan	10 days	1/6/2006	1/19/2006		731
733	PRP Group Review	10 days	1/20/2006	2/2/2006		732
734	Final Feasibility Study Work Plan	5 days	2/3/2006	2/9/2006		733
735	DEQ Review	30 edays	2/9/2006	3/11/2006		734
736	Feasibility Study Evaluation	40 days	3/13/2006	5/5/2006		
737	Assemble/Screen Remedial Alternatives	10 days	3/13/2006	3/24/2006		735
738	Detailed Analysis	15 days	3/27/2006	4/14/2006		737
739	Compare Remedial Alternatives	10 days	4/17/2006	4/28/2006		738
740	Recommend Preferred Alternative	5 days	5/1/2006	5/5/2006		739
741	Reporting	71 days	5/8/2006	8/17/2006		
742	Draft FS Report	15 days	5/8/2006	5/26/2006		740
743	PRP Group Review	10 days	5/30/2006	6/12/2006		742
744	Final Draft FS Report	10 days	6/13/2006	6/26/2006		743
745	Submittal to DEQ	1 day	6/27/2006	6/27/2006		744
746	DEQ Review	30 edays	6/27/2006	7/27/2006		745
747	Final FS Report	15 days	7/28/2006	8/17/2006		746
748						