PORT OF SEATTLE'S PETITION FOR RECONSIDERATION REGARDING CONDITION 8 - PAGE 1

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1	concerns were adopted from	ACC and CASE's	(hereafter,	"ACC")	proposed	findings	of fact.
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- 2 However, ACC's proposed findings lack any evidentiary support on these points and instead
- 3 reflect a misunderstanding or distortion of the record. The Board should modify its findings to
- 4 correct those three errors.

The remaining two concerns can be addressed more appropriately by further conditioning the Port's use of SPLP, rather than by prohibiting it altogether. Therefore, the Port respectfully requests that the Board revise its Final Order so that the Port is allowed to use SPLP under the conditions discussed below.

Because SPLP was an integral part of the process of formulating fill criteria, use of the very stringent numeric criteria without SPLP skews the entire set of criteria and makes it practically impossible for the Port — or any other proponent of a major fill project who is required in the future to comply with similar criteria — to find acceptable fill. The Port presented statistical evidence showing that if it were required to meet 90th percentile "natural background" levels for 14 constituents, then 78% of the uncontaminated soils it tests will fail to meet the fill criteria. This is because testing for multiple constituents in each sample greatly increases the likelihood that the concentration of at least one constituent will fall in the 10% of samples that will, by definition, exceed the "background" concentration. Moreover, the Final Order set the fill criteria for some constituents at levels considerably lower than natural background concentrations, ¹ thereby further reducing the chances that acceptable fill can be found.

The practical effect of an extremely high failure rate for pristine, naturally-occurring soils is very significant for the Third Runway. It is equally significant for other major fill projects around the state, because other projects requiring a 401 certification will likely be required to

for three of the four: antimony, selenium, and silver. The background levels for selenium and silver (0.78 mg/kg and 0.61 mg/kg, respectively) are higher than the backcalculated levels used in the Final Order (0.52 mg/kg and 0.28 mg/kg, respectively).

The Final Order states that the fill criteria should be set at natural background levels "when available." See Final Order at 62-63. For four constituents, the Final Order set the fill criteria at the numbers that Ecology "back calculated" to protect water quality, presumably because natural background numbers were not available. Id. (criteria for antimony, selenium, silver, and thallium). Actually, data are available regarding the natural background levels of these four constituents, as well. See Exhibit 2126 at 7-4. Ecology established 90th percentile background levels for three of the four; antigraphy selenium, and silver. The background levels for selenium and silver (0.78 mg/rg)

comply with similar criteria in the future. The Board's decision prohibiting use of SPLP could
therefore have extremely far-ranging, adverse, and unintended consequences. Major construction
projects will either be impossible or infeasible due to the unavailability of, or the prohibitive cost
of obtaining, fill that meets the numeric criteria set by the Board.

These practical effects of the unprecedented fill criteria were mitigated in the 401 Certification by allowing the use of SPLP. There is no dispute that a 401 Certification is intended to protect water quality, not soil quality. If constituents in fill material will not leach out of the soil, they pose no threat to water quality. SPLP is the most direct method for determining whether those constituents will leach from fill. Proper use of SPLP, therefore, poses no environmental threat. By prohibiting the use of SPLP, the Final Order has imposed what may be impossible conditions on construction of the project without any corresponding environmental benefit.

The Port believes that SPLP should be allowed, but acknowledges the Board's concerns and addresses each one below. The Port requests that the Board modify its Final Order to permit use of SPLP subject to the conditions proposed below, which will allow the Port to accept uncontaminated fill without causing any threat to water quality. This will allow the Third Runway project to proceed while meeting the regulatory standard set forth in WAC 173-201A-040(1), which states that "[t]oxic substances shall not be introduced above natural background levels in waters of the state which have the potential either singularly or cumulatively to adversely affect characteristic water uses." (Emphasis added).

II. ARGUMENT AND AUTHORITIES

A. Factual Background

The Final Order modified the numeric fill criteria so that they are set at "natural background levels" whenever possible. See Final Order at 62-63. Condition 7 of the Final Order uses natural background levels taken from an Ecology publication entitled Natural Background Soil Metals Concentrations in Washington State (Exhibit 2126). As described in the publication, Ecology found that for most metals studied there is considerable variation in their natural

1	background concentrations. For example, the background concentration of chromium in the Puget
2	Sound region ranged from 12 parts per million (ppm) to 235 ppm. Id. at 7-10. For copper, the
3	background concentration in the Puget Sound region ranged from 4 parts per million to 243.5
4	ppm. Id. at 7-11. For nickel, the background concentration in the Puget Sound region ranged
5	from 9 parts per million to 244.4 ppm. Id. at 7-16.
6	Ecology chose a single value, the 90th percentile, to represent natural background levels.
7	As Ecology explained in its publication:
8	What is the 90th Percentile Value?
9	The 90 th percentile is a value that 10% of a given data set will exceed (90 th = 90% data below, 10% data above). Another way of thinking about the 90 th percentile is
10	you have a one-in-ten chance of having a sample that exceeds the specified concentration.
11	Why is this important?
12	Ecology uses the 90 th percentile as the default value for background calculations. The 90 th percentile value was selected as a result of Monte Carlo simulations of
13	lognormal and normally distributed data (ref: Statistical Guidance for Site Managers). The 90th percentile is a conservative value; i.e., 10% of the data will
14	exceed it Background values in some states such as Michigan, and in Ontario (Canada) are based on 99th and 98th percentile values
15	Id. at 6-1 (emphasis in original). Because Ecology uses the admittedly conservative 90th
16	percentile value as the natural background concentration, 10% of uncontaminated soils will exceed
17	this value for any given metal. This means that if the Port analyzes pristine soils for a single
18	constituent, it will have to reject 10% of those pristine soils for use as fill.
19	If the same soil is tested for multiple constituents, any one of which can disqualify the
20	soil for use as fill, the probability of that soil being rejected increases dramatically. The Port is
21	required to analyze for 14 metals. At the hearing, the Port presented evidence explaining how use
22	of the 90th percentile background value for each of 14 metals will lead to rejection of nearly 80%
23	of pristine soils. See Tr. March 28, 2002 page 104 lines 12-25 and page 105 lines 1-17 ("if we
24	have 14 samples that we have to put at natural background criteria, we are going to exceed the
25	criteria 78 percent of the time") (Gould testimony); see also Prefiled Testimony of Elizabeth
26	Clark at 14, ¶ 35 ("[t]here is an increasingly greater probability that a sample will exceed a
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background criterion with every additional metal considered (for instance, statistically, 19%
chance for two metals and a 27% chance for three metals)").
Since the purpose of the 401 Certification is to ensure protection of water quality, not
soil quality, the focus should be on the concentration of metals that will leach from the Third
Runway embankment into surrounding waters, not on the concentration of metals in the soils
themselves. As ACC's expert Dr. Patrick Lucia stated at the hearing, "regardless of what the
criteria are, regardless of what the concentrations are of any of these various metals or
hydrocarbons in the embankment, the real question is how mobile are they." See Tr. March 20,
2002 page 106 lines 20-24 (Lucia testimony) (emphasis added). It is for this reason that Ecology
included use of the SPLP procedure in the 401 Certification. ²
The SPLP test is the standard tool used to determine how mobile contaminants are -
specifically, to determine the rate at which they will leach from soil into a liquid solution. Soils
with constituents that exceed the 90th percentile natural background value, but that do not leach
from soil, do not pose a threat to water quality.
B. Grounds for Granting Reconsideration
The Board's rules do not specify a standard for its review of a petition for
reconsideration. However, WAC 371-08-300(2) states that "[e]xcept where in conflict with the
board's rules, Washington civil rules shall be followed in proceedings before the board."
CR 59 provides that among the grounds for reconsidering a decision are
(7) That there is no evidence or reasonable inference from the evidence to justify the verdict of the decision, or that it is contrary to law; and
(9) That substantial justice has not been done.
The Board's findings on SPLP either lack evidentiary support, or deny the Port substantial
justice by prohibiting use of SPLP altogether when additional conditions would adequately
address the Board's concerns.
² The Fish and Wildlife Service, whose mission includes protection of aquatic organisms, first included use of SPLP

The Fish and Wildlife Service, whose mission includes protection of aquatic organisms, first included use of SPLP in the fill criteria in its Biological Opinion. See Exhibit 29. Ecology later adopted the SPLP for use in the 401
 Certification.

C.	The SPLP Test is	a Standard Method

The Synthetic Precipitation Leaching Procedure or SPLP, EPA SW-846 Method 1312, is a standard laboratory method for determining the potential for various constituents to leach from soils. See Prefiled Testimony of Linn Gould at 6, ¶ 18. It is considered the "gold standard" for making this determination. See Tr. March 28, 2002 page 106 lines 16-17 (Gould testimony).

When the SPLP is performed, soil is exposed to water simulating acid rain. The resulting extract ("SPLP extract") represents the leachate that would be generated under conditions that are most likely to mobilize constituents in soil. See Prefiled Testimony of Linn Gould at 6-7, ¶ 18. The SPLP extract is then analyzed to determine the concentrations of any constituents that leach from the soil. Id. at ¶ 19. These results are compared to water quality standards. Id.

D. The Board's Concerns About Use of SPLP

In the Final Order, the Board identified five concerns regarding the Port's intended use of the SPLP test. Three of those five concerns appear to be based on ACC's proposed findings of fact that have no support in the record. The other two concerns can be addressed by further conditioning the 401 Certification, as explained below.

1. The Port Has Not Used SPLP To Exceed Method A Levels

The Board expressed concern that the Port may have used the SPLP to approve the importation of fill exceeding MTCA Method A levels. See Final Order at 65, lines 5-7 ("a Port consultant acknowledged after site sampling shows a site has failed the MTCA Method A based initial screening criteria, the Port uses the SPLP the approve the importation of fill material"). However, Attachment E to the 401 Certification prohibits the Port from using results of the SPLP testing to accept soil that exceeds Method A levels:

[U]pper bound limits are established for constituent concentrations that cannot be accepted even following a successful SPLP test (referred to in this document as "upper bound limits"). For the drainage layer cover, the upper bound limits are set in the [Biological Opinion] at applicable MTCA Method A Standards.

See Exhibit 1 at Attachment E, page 2. Ecology witness Ann Kenny confirmed that this provision prohibits the use of SPLP to accept fill that exceeds MTCA Method A levels. See Tr. March 18, 2002 at 179, lines 9-16 (Kenny testimony). Furthermore, nothing in the Final Order

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in the record that the Port has violated this prohibition.

The Board's concern seems to have arisen because ACC misunderstood testimony of Port environmental consultant Elizabeth Clark. According to ACC's proposing findings of fact:

However, in her testimony Port environmental consultant Elizabeth Clark acknowledged that, after site sampling shows that a site has failed the MTCA Method A based initial screening criteria, the Port uses the SPLP to nevertheless approve the importation of fill material. According to Ms. Clark, the Port has already accepted fill material from the Black River Quarry site, the Kent-Kangley pit, the Marine View pit and CIT pit #3 (four of the seven sites that were being used as fill sources at the time of the hearing) based upon the use of SPLP test results. (Clark, Tr. at 9-0134, line 14, to 9-0136, line 5.) Thus, where the Port encounters significant variability in soil, rather than conducting additional sampling to characterize the extent of contamination to an acceptable confidence limit, the Port has interpreted the 401 Certification to allow use of the SPLP method to nevertheless justify fill importation.

See Findings of Fact, Conclusions of Law, and Order Proposed by ACC and CASE at 77, ¶ 208 (emphasis in original) ("ACC Findings"). Nothing in Ms. Clark's testimony suggests that the Port accepted fill that exceeded the MTCA Method A levels. Instead, she testified that the Port had accepted fill that exceeded the 401 criteria. See Tr. March 28, 2002 at 134, line 14 through 136, line 5 (Clark testimony). ACC mistakenly assumed that these 401 criteria were based on Method A levels. This assumption is wrong, as explained further below.

During its cross-examination of Ms. Clark, ACC sought testimony that the Port had accepted fill that exceeded the 401 criteria for certain metals after the same fill passed the SPLP test. ACC's counsel asked specifically about chromium and copper, and referred Ms. Clark to Exhibit 294, a report summarizing laboratory results from soil testing. According to this report, two of the samples taken from Black River Quarry soil contained concentrations of chromium at 44.7 and 46.3 mg/kg. See Exhibit 294 at Table 1. The 401 Certification set the fill criterion for chromium at 42 mg/kg in the wedge, and at 2000 mg/kg throughout the remainder of the embankment. See Exhibit 1 at Attachment E. Of these two, only the criterion for the remainder of the embankment, 2000 mg/kg, is a MTCA Method A value. See WAC 173-340, Table 740-1.

³ The criterion for the wedge, 42 mg/kg, is the 90th percentile statewide natural background value for chromium. See Exhibit 2126 at 1.

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Obviously, the Black River Quarry samples containing chromium at 44.7 and 46.3 mg/kg were well below this Method A level.

This same laboratory report showed that the Black River Quarry soil had concentrations of copper that exceeded the 401 criterion of 36 mg/kg. See Exhibit 294 at Table 1. MTCA does not have a Method A level for copper. See WAC 173-340, Table 740-1. The 36 mg/kg level set in the 401 Certification represents the 90th percentile Puget Sound natural background concentration. See Exhibit 2126 at 1. The Port did not use the SPLP to accept soils that exceed Method A levels.

2. Laboratories Can Detect Constituents in SPLP Extract at Levels Lower Than the Water Quality Standards

The Final Order states that the "SPLP method is in large part incapable of detecting contaminants of concern at the levels established in WAC 173-201A-040." See Final Order at 65, lines 13-14. In fact, laboratories can conduct analytical tests on SPLP extract that attain detection limits lower than the water quality standards, and evidence in the record proves this.

Attachment C to Exhibit 1320 includes Table C-1, which shows analytical results of SPLP extract obtained from three fill sources. This table displays results of analyses conducted by two laboratories, including one specialized lab capable of achieving ultra-low detection levels. Both laboratories detected concentrations of metals at levels far lower than the water quality standards. For example, the non-specialized laboratory detected copper — the metal that ACC used to "prove" that laboratories could not attain low enough detection limits to make the SPLP results meaningful — at levels as low as 0.00066 mg/kg, or mg/l. *Id.* The other lab detected metals at even lower concentrations; for example, it found mercury at 0.00000029 mg/kg, and thallium at 0.0000007 mg/kg. *Id.*

The Board's finding on this point appears to be based on ACC's proposed finding of fact, which suggested language identical to that used in the Final Order. See ACC Findings at 78-79, ¶211. ACC's proposed finding is based on an erroneous interpretation of a single laboratory report. ACC concluded that because the laboratory did not attain detection limits lower than some water quality standards during that one analysis, no laboratory analyzing SPLP extract

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•	could ever attain detection films lower than the relevant water quanty standards. ACC's
2	conclusion is completely wrong.
3	ACC's proposed finding of fact reads in pertinent part as follows:
4	The SPLP procedure is, however, ineffective at determining compliance with
5	water quality standards for these metals because, as designed in the 401, the SPLP's reporting limit is higher than the 401 contamination limit. This is evident
6	from the baseline chemical characterization report for the Black River Quarry, a source of fill already utilized by the Port. (Ex. 294.) That report states copper concentrations from six samples ranged from 95.7 to 131 mg/kg – more than three
7	times the 36 mg/kg limit for copper in the 401 Certification. This fill material was then tested under the SPLP and approved because copper was not detected
8	"above the reporting limit of .05 mg/kg (mg/l) [or 50 ug/l] using SPLP methodology." (Exhibit 294 at p. 2.) In fact, the SPLP test results in that report
9	indicate that, for each contaminant tested, the reporting limit was 50 micrograms/liter so that any contaminant that had a WAC 173-201A-040 hardness
10	adjusted criterion lower than 50 micrograms/liter could not be detected.
11	Id. (emphasis in original) (footnotes omitted). The only evidence that ACC cites in
12	support of this proposed finding is one laboratory report of analysis performed on soil
13	from the Black River Quarry. ACC presented no testimony or other documentary
14	evidence that would allow it to extrapolate from this single analytical event the conclusion
15	that "the SPLP's reporting limit is higher than the 401 contamination limit." The record
16	simply does not support the finding proposed by ACC and adopted by the Board; in
17	fact, the very low detected concentrations discussed above refute this contention.
18 19	3. The Record Does Not Support the Finding that the Port Lacks a "Statistically Meaningful Test Protocol" for Using SPLP
20	The Final Order found that there was no "statistically meaningful test protocol" for using
21	SPLP because the SPLP Work Plan requires that only one SPLP sample be collected for each
22	original screening sample that exceeds the fill criteria. See Final Order at 65, lines 10-13. This
23	concern, like the ones discussed above, originated with ACC. Just as with the concerns
24	addressed above, the record does not support this finding.
25	The only evidence cited in support of ACC's proposed finding of fact on this issue is the
26	following testimony of Dr. Patrick Lucia:
27	The Port argues that the Certification requires that the SPLP test be performed if the concentration of contaminants in the fill exceed the criteria and that this provides a higher level of assurance. This argument fails to recognize that the
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1	testing protocol is insufficient to evaluate whether the fill will meet the criteria and soils that should have been subjected to the SPLP test will not be tested and
2	subsequently placed in the embankment. The acceptability of the fill based on the SPLP testing is uncertain. A more appropriate testing and fill acceptance criteria
3	would be that proposed by Kmet in his e-mail of September 11, 2000 as discussed above.
4	See Prefiled Testimony of Patrick Lucia at 11, ¶ 17. This paragraph is a criticism of the soil
5	sampling protocol, not of the Port's use of SPLP. Dr. Lucia's point is that the SPLP cannot be
6	used properly unless an adequate number of soil samples is collected in the first instance; that is
7	why he refers to the "testing and fill acceptance criteria" proposed by Pete Kmet, whose
8	suggestions focused on the number of soil samples collected and use of the 95% confidence
9	interval to interpret the sample results, not on SPLP. Since there is no evidence to support
10	ACC's proposed finding that there is "no statistically meaningful test protocol for using the
11	SPLP," that concern cannot serve as a basis for prohibiting the use of SPLP.
12	The Board addressed Dr. Lucia's concern by adopting Condition 9, which requires the
13	Port to increase the minimum number of samples collected from a proposed fill source to reflect
14	the number of samples required under MTCA. See Final Order at 137.
15	4. Groundwater Standards and Constituents Without Surface Water Standards in WAC 173-201A-040(3) Can Be Addressed Through the
16	Addition of Further Conditions
17	Both of the remaining concerns about SPLP can be addressed by imposing additional
18	conditions on the Port's use of the test.
19	First, the Final Order notes that the SPLP procedure ignores state groundwater standards
20	See Final Order at 65, lines 8-10. In other words, the 401 Certification does not require the Port
21	to compare the results of the SPLP extract analysis to groundwater standards. This concern can
22	easily be resolved by further conditioning the 401 Certification so it requires the Port to compare
23	the analytical results from its SPLP extract to both the surface water and the groundwater quality

Second, the Final Order states that surface water quality standards do not exist for four of the metals for which the Port is required to sample. See Final Order at 66, lines 1-5. Therefore,

standards. Only if the SPLP results are lower than both sets of water quality standards would

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the fill be acceptable for placement in the Third Runway embankment.

the Board found that there was no standard by	which to evaluate	the analytical	results from the
SPLP testing of those four metals.			

In fact, surface water quality standards do exist for these four metals. Washington's surface water quality standards include a table setting forth numeric criteria for a handful of constituents. See WAC 173-201A-040(3). Silver is among the constituents for which the table includes a criterion. In addition to the acute criterion provided in the table, EPA has proposed a chronic criterion for silver. See Exhibit 1320 at Attachment A, Table 2.

However, the numbers in this table are not the only numeric water quality criteria. For substances not listed in the table, Ecology uses numeric standards identified in the USEPA Quality Criteria for Water (EPA Publication 440/5-86-001), commonly known as the "Gold Book," and in the National Toxics Rule found at 40 C.F.R. § 131.36. See WAC 173-201A-040(5). These two sources provide numeric standards for antimony, beryllium, and thallium, the other three constituents for which the Board found no standards. The Board's concern could be addressed simply by requiring the Port to compare the results of its SPLP extract analysis to the water quality standards referenced in WAC 173-201A-040, including those found in the Gold Book and the National Toxics Rule.

Alternatively, the 401 Certification could require the Port to compare the results of its SPLP extract tests on these four metals to concentrations that are protective of the most sensitive aquatic receptors. The Port's consultant, Dr. Charles Wisdom of Parametrix, conducted a literature search to determine protective levels. For two of the four metals, Dr. Wisdom found that EPA had proposed surface water quality criteria that are protective of aquatic organisms. See Exhibit 1320 at Attachment A. For the remaining metals, Dr. Wisdom evaluated information from EPA's AQUIRE database, which contains toxicity data on lethal and sublethal effect concentrations for various aquatic organisms. Id. Using guidance established by EPA, Dr. Wisdom selected values from information in the database to represent both acute and chronic effects thresholds. Id. The protective concentrations that Dr. Wisdom identified are listed in

1	Table 2 of Attachment A, Exhibit 1320. ACC pre	sented no evidence to rebut Dr. Wisdom's			
2	conclusion that these concentrations are protective.				
3	CONCLUSION				
4	The SPLP is an accepted regulatory metho	d for determining whether constituents in soil			
5	can leach out and threaten water quality. Unless is	t can use the SPLP, the Port will have to reject			
6	an extremely high percentage of uncontaminated fi	ll sources. This will make it very difficult, if			
7	not impossible, to find the fill necessary to constru	act the Third Runway, yet will achieve no			
8	environmental benefit. For the reasons explained	above, the Port respectfully requests that the			
9	Board revise Condition 8 of the Final Order so the	at the Port is allowed to use SPLP subject to the			
10	conditions outlined above.	•			
11	DATED this 22nd day of August 2002.				
12	PORT OF SEATTLE	FOSTER PEPPER & SHEFELMAN PLLC			
13 14	Panya Barnett for	7 anya Barnett for			
15	Linda J. Strout, General Counsel, WSBA No. 9422	Roger A. Pearce, WSBA No. 21113			
16 17	Traci M. Goodwin, Senior Port Counsel, WSBA No. 14974				
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19 20	Tanja Barnett for				
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1 2 3 5 6 7 8 POLLUTION CONTROL HEARINGS BOARD FOR THE STATE OF WASHINGTON 9 10 AIRPORT COMMUNITIES COALITION. 11 Appellant, PCHB No. 01-160 12 CERTIFICATE OF SERVICE v. 13 14 STATE OF WASHINGTON DEPARTMENT OF ECOLOGY, and THE 15 PORT OF SEATTLE, 16 Respondents. 17 I hereby certify that I have on this 22nd day of August, 2002, served a copy of: 18 19 1. Port of Seattle's Petition for Reconsideration Regarding Condition 8; and 20 2. Certificate of Service upon the following: 21 22 Via Fax and U.S. Mail: Via Fax and UPS Overnight: 23 Linda J. Strout, General Counsel HELSELL FETTERMAN LLP Traci M. Goodwin, Senior Port Counsel Peter J. Eglick 24 Port of Seattle Kevin L. Stock 2711 Alaskan Way Michael Witek 25 Seattle, WA 98121 1500 Puget Sound Plaza 1325 Fourth Avenue Fax: (206) 728-3252 26 Seattle, WA 98101-2509 Fax: (206) 340-0902 27 28 CERTIFICATE OF SERVICE Marten Brown Inc. 421 S. Capitol Way, Suite 303 Olympia, Washington 98501 (360) 786-5057 PAGE 1

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Via Fax and UPS Overnight: Via Fax and UPS Overnight: 1 Rachael Paschal Osborn 2 Richard A. Poulin Attorney at Law SMITH & LOWNEY 2421 West Mission Ave. 3 2317 E. John Street Spokane, WA 99201 Seattle, WA 98112 Fax: (509) 328-8144 4 Fax: (206) 860-4187 5 Via Fax and ABC Legal Messengers: Via Fax and ABC Legal Messengers: 6 Joan M. Marchioro Roger A. Pearce Foster Pepper & Shefelman PLLC Thomas J. Young 7 Jeff B. Kray 1111 Third Ave., Suite 3400 Washington State Attorney General's Office Seattle, WA 98101 8 **Ecology Division** Fax: (206) 447-9700 2425 Bristol Court SW, 2nd Floor 9 Olympia, WA 98504-0117 10 Via Personal Hand Delivery, an original and 11 Pollution Control Hearings Board 4224 6th Avenue SE 12 Row 6, Bldg. 2, MS 40903 13 Lacey, WA 98504 14 I declare under penalty of perjury under the laws of the State of Washington that the above is true and correct. Executed at Olympia, Washington, this 22nd day of August 2002. 15 16 17 Julie A. Bunting 18 19 20 21 22 23 24 25 26 27 28 Marten Brown Inc. 421 S. Capitol Way, Suite 303 Olympia, Washington 98501 (360) 786-5057

CERTIFICATE OF SERVICE

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