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**POLLUTION CONTROL HEARINGS BOARD  
STATE OF WASHINGTON**

AIRPORT COMMUNITIES  
COALITION,

Appellant,

CITIZENS AGAINST SEA-TAC  
EXPANSION,

Intervenor/Appellant,

v.

STATE OF WASHINGTON,  
DEPARTMENT OF ECOLOGY; and  
PORT OF SEATTLE,

Respondents.

PCHB No. 01-160

RESPONDENT DEPARTMENT OF  
ECOLOGY'S PRE-HEARING BRIEF

**I. INTRODUCTION**

The hearing in this matter regards the Airport Communities Coalition's and Citizens Against Sea-Tac Expansion's (collectively ACC) appeal of the Department of Ecology's (Ecology) Order No. 1996-4-023525 (the 401 Certification),<sup>1</sup> which constituted a Clean Water Act (CWA) § 401 Certification, an RCW 90.48 Order, and a Coastal Zone Management Act (CZMA) Consistency Concurrence determination for the Port of Seattle's (Port) proposed

<sup>1</sup> Ecology initially issued Order No. 1996-4-02325 on August 10, 2001. Ecology subsequently rescinded that order and issued Order No. 1996-4-02325 (Amended-1) on September 21, 2001. Those orders will be collectively referred to as the 401 Certification.

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**ORIGINAL**

1 Master Plan Update (MPU) Improvements for the Seattle-Tacoma International Airport  
2 (STIA). The evidence and testimony presented to the Pollution Control Hearings Board  
3 (Board) will demonstrate that Ecology appropriately issued the 401 Certification. In addition,  
4 the hearing will show that the ACC has failed to meet its burden of proof and hence the Board  
5 should affirm Ecology's decision.

## 6 II. BACKGROUND

7 Through testimony and exhibits Ecology expects to prove the following at hearing:

8 The terms of the 401 Certification were developed through extensive coordination with  
9 Ecology's experts on wetlands science, hydrology, stormwater management, water quality, and  
10 toxics.

11 The Port identified a number of projects in its MPU in order to allow it to efficiently  
12 meet existing and future regional air travel demands. In its Joint Aquatic Resources Permit  
13 Application (JARPA) the Port states:

14 The airfield operates inefficiently during poor weather because it accommodates  
15 aircraft in a single arrival stream only. As a result, significant arrival delay  
16 occurs during poor weather. Aircraft are either held on the ground in their  
originating city, slowed en route, or they are placed in holding patterns to await  
clearance to land at STIA.

17 To address this concern, the Port identified several improvement projects through a  
18 master planning process. Some of the MPU projects impact wetlands in the Miller and Des  
19 Moines Creek watersheds. Specific projects with direct impacts to wetlands, floodplains,  
20 stream, and drainage channel impacts include:

- 21 1. Adding an 8,500 foot long third parallel runway with associated  
22 taxiways and navigational aids on an embankment consisting of 17 to 20  
million cubic yards of imported fill.
- 23 2. Establishing standard Runway Safety Areas for the existing runways.
- 24 3. Relocating South 154<sup>th</sup> Street north of the extended runway safety areas  
25 and the new third runway.
- 26 4. Using on-site borrow sources for the third runway embankment.

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1 Other components of the MPU Improvements include construction of the proposed  
2 South Aviation Support Area (SASA), the proposed stormwater management system to  
3 manage runoff from the new impervious surfaces, and the proposed relocation of Miller Creek.  
4 The major plans that Ecology reviewed for this project included the Natural Resource  
5 Mitigation Plan (NRMP), the Comprehensive Stormwater Management Plan (CSMP), and the  
6 Low Flow Analysis and Summer Low Flow Impact Offset Facility Proposal. In order to  
7 construct these projects, the Port needs to obtain a CWA § 404 Permit (404 Permit) from the  
8 Army Corps of Engineers (Corps) and a 401 Certification and CZMA consistency concurrence  
9 from Ecology.

10 The testimony and evidence presented by Ecology will establish that there is reasonable  
11 assurance that the Port's project as proposed and conditioned in the 401 Certification will meet  
12 applicable water quality standards.

### 13 III. ARGUMENT

#### 14 A. Legal Standards

##### 15 1. Standard of Review And Burden Of Proof

16 The Board has jurisdiction over this matter and the parties under Chapters 43.21B and  
17 90.48 RCW. The Board's scope and standard of review is *de novo* pursuant to WAC  
18 371-08-485.<sup>2</sup> *U.S. Dep't of Energy v. Dep't of Ecology*, PCHB No. 97-1157 (1998). Under *de*  
19 *novo* review the parties are allowed to present all relevant evidence to the Board so that it can  
20 make an informed and final decision. In an appeal of a 401 Certification, the Board decides *de*  
21 *novo* whether the proposed project meets applicable water quality standards and that  
22 determination is "based on the proposed project as it is presented to the Board" at the hearing.  
23 *Barrish & Sorenson Hydroelectric v. Dep't of Ecology*, PCHB No. 94-193 (Conclusion of Law  
24 4) (1995).

25 \_\_\_\_\_  
26 <sup>2</sup> WAC 371-08-485(1) provides: "[h]earings shall be formal and quasi-judicial in nature. The scope and  
standard of review shall be *de novo* unless otherwise provided by law."

1           The *de novo* review standard does not preclude the Board from affording due deference  
2 to Ecology on the technical challenges raised by the ACC. Due deference should be afforded  
3 to Ecology because of its specialized knowledge and expertise. *Dep't of Ecology v. P.U.D. 1*  
4 *of Jefferson County*, 121 Wn.2d 179, 201, 849 P.2d 646 (1993), *aff'd*, 511 U.S. 700, 114 S. Ct.  
5 1900, 128 L. Ed. 2d 716 (1994). The Supreme Court has agreed that deference to Ecology is  
6 appropriate when the case is “based heavily on factual matters, especially factual matters  
7 which are complex, technical, and close to the heart of the agency’s expertise.” *Hillis v. Dep't*  
8 *of Ecology*, 131 Wn.2d 373, 396, 932 P.2d 139 (1997). The ACC raises numerous technical  
9 issues ranging from ground water and surface water modeling to wetland mitigation and  
10 functions. Because these technical issues are encompassed within Ecology’s expertise, the  
11 Board lends great weight to Ecology’s decisions regarding factually complex and technical  
12 areas.<sup>3</sup>

13           In addition, on matters of legal interpretation the Board lends great weight to Ecology’s  
14 interpretation of statutes and rules that it is charged with administering. *See Kaiser Aluminum*  
15 *v. Dep't of Ecology*, 32 Wn. App. 399, 404, 647 P.2d 551 (1982); *see also Federated American*  
16 *Ins. Co. v. Marquardt*, 108 Wn.2d 651, 656, 741 P.2d 18 (1987) (ruling that the Insurance  
17 Commissioner’s “interpretation of his own regulation is entitled to great weight”). Even  
18 greater deference should be afforded to an agency’s construction of its own statutes and  
19 regulations where technical expertise is required in its administration. *Kaiser Aluminum*, 32  
20 Wn. App. at 404. Ecology’s construction of the water quality regulations and other Ecology  
21 rules and regulations that it implements and administers in a 401 Certification process should  
22 be given great deference.

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<sup>3</sup> *See, e.g., Hubbard v. Dep't of Ecology*, 86 Wn. App. 119, 123, 936 P.2d 27 (1997) (holding in the context of a hydraulic continuity analysis that Ecology’s conclusions are “entitled to great weight” due to its expertise); *Harvest States Cooperatives v. Dep't of Ecology*, PCHB No. 94-169 (Conclusion of Law VIII) (1995) (ruling that Ecology was “entitled to great deference” in the methods of analysis it employed in deciding to require Harvest States to obtain a water quality discharge permit).

1 The burden of proof in this case falls squarely on the ACC. WAC 371-08-485(2);  
2 *Friends of the Earth v. Dep't of Ecology*, PCHB Nos. 87-63 & 87-64 (Conclusion of Law IV)  
3 (1988). WAC 371-08-485(2) provides:

4 The issuing agency shall have the burden of proof in cases involving penalties  
5 or regulatory orders. In other cases, the appealing party shall have the initial  
burden of proof.

6 Ecology's issuance of a 401 Certification is similar to that of a permit decision and thusly the  
7 burden falls on the party challenging a certification. *See, e.g., Port Townsend Paper Corp. v.*  
8 *Dep't of Ecology*, PCHB No. 98-77 (1999) (ruling that the appellant had the burden of proof  
9 when challenging the opacity limitations that Ecology placed in the appellant's air permit). A  
10 CWA 401 Certification and CZMA consistency concurrence are neither penalty actions nor  
11 regulatory enforcement orders and, therefore, the ACC bears the burden of proof in the appeal  
12 at bar.<sup>4</sup>

## 13 2. Reasonable Assurance Standard

14 Ecology's 401 Certification ensures that the Port's project will be in compliance with  
15 applicable water quality laws under the "reasonable assurance" standard. A 401 Certification  
16 must be based on a valid finding that "there is a reasonable assurance that the activity will be  
17 conducted in a manner which will not violate applicable water quality standards." 40 CFR  
18 § 121.2(a)(3); *PUD No. 1 of Jefferson County v. Washington Dep't of Ecology*, 511 U.S. 700,  
19 712, 114 S. Ct. 1900, 128 L. Ed. 2d 716 (1994). A 401 Certification means the state has  
20 reasonable assurance there will be compliance with water quality laws. *Friends of the Earth*,  
21 PCHB No. 87-63 (Conclusion of Law II).

22  
23 <sup>4</sup> *See, e.g., Bowers v. Pollution Control Hearings Board*, 103 Wn. App. 587, 598-99, 13 P.3d 1076  
24 (2000), *review denied* 144 Wn.2d 1005, 29 P.3d 717 (2001) (holding that the Board properly assigned the burden  
25 of proof to the appellant who was challenging an air order establishing certain air emission limits and pollution  
26 control technologies). The *Bowers* court stated that "WAC 371-08-485(2) typically applies when an agency  
issues an enforcement order alleging certain violations or seeks penalties for violations . . . [t]he instant appeal,  
however, is not strictly an enforcement order. It is more akin to appeals of emission or effluent limits found in  
permits, where the burden of proof is placed on the party contending that the limit does not satisfy statutory  
authority or regulatory requirements." *Id.* (Footnotes omitted.)

1 In order to overturn a 401 Certification, the appellant "must establish by a  
2 preponderance of the evidence that Ecology did not have 'reasonable assurance' the applicable  
3 provisions [of the Clean Water Act and state water quality standards] would be complied  
4 with." *Friends of the Earth*, PCHB No. 87-63 (Conclusion of Law IV). The preponderance of  
5 the evidence standard means that the ACC must proffer more than a guess or mere speculation  
6 that water quality standards will not be met by the project. *See Friends of the Earth*, PCHB  
7 No. 87-63 at 28.

8 **B. Summary of Ecology's Case**

9 **1. Public Notice Requirements Met**

10 Ecology followed the public notice and comment requirements for the 401  
11 Certification. Public notice is triggered by the submission of an application for a 401  
12 Certification or CZMA consistency concurrence. WAC 173-225-030; 15 CFR § 930.61(a).  
13 In compliance with these provisions, public notice of the project was provided by means of  
14 the joint Corps and Ecology Public Notice issued by the Corps on December 27, 2000.<sup>5</sup>  
15 Comments were received during the formal comment period that ran from December 27, 2000  
16 to February 16, 2001.<sup>6</sup> Ecology continued to receive and review public comments submitted  
17 after the close of the formal written comment period.<sup>7</sup> The Corps and Ecology held a joint  
18 public hearing regarding the project on January 26 and 27, 2001. These activities constitute  
19 full compliance with applicable public notice and comment requirements.

20 Ecology was not required to conduct additional public notice when it issued the  
21 Amended 401 Certification on September 21, 2001 as the amendment did not result in  
22 changes to the proposed project and, thus, no new application was required. *See* WAC  
23 173-225-030; 15 CFR § 930.61(a). The Amended 401 Certification adjusted only the  
24 conditions that applied to the project and, because the project itself was not changed,

25 <sup>5</sup> *See* Ecology Exhibit 2132.

26 <sup>6</sup> *Id.*

<sup>7</sup> *See* Direct Testimony of Ann Kenny at ¶ 2.

1 submission of a new application was not warranted. Moreover, Ecology previously  
2 determined on August 10, 2001 that the project was consistent with Washington's Coastal  
3 Zone Management Program (CZMP), and due to the fact that only the project conditions were  
4 adjusted, additional public notice was not required. The public notice and comment process  
5 that Ecology followed for the 401 Certification complied with WAC 173-225-030 and 15  
6 CFR § 930.61(a).

7 **2. Scope Of 401 Certification Is Appropriate**

8 Under CWA § 401(a)(1), an applicant for a federal license or permit for construction of  
9 a facility, which may result in a discharge into navigable waters, shall obtain from the state  
10 where the discharge occurs a certification that any such discharge will comply with applicable  
11 water quality standards. 33 U.S.C. § 1341(a)(1). In reviewing an application for a 401  
12 certification, the state can consider the water quality impacts of the proposed project, not just  
13 those of the anticipated discharge. *PUD No. 1 of Jefferson County*, 511 U.S. at 710-11, 114 S.  
14 Ct. 1900, 128 L. Ed. 2d 716. The conditions in a 401 Certification then become conditions of  
15 the federal license or permit. 33 U.S.C. § 1341(d).

16 In this case, the Port seeks a 404 Permit from the Corps and a 401 Certification from  
17 Ecology to construct the projects identified in its JARPA. The 404 Permit and, therefore, the  
18 401 Certification, have a limited life. See Corps Public Notice (Ecology Exhibit 2132); 401  
19 Certification Condition B(2). In recognition of that fact, Ecology also issues a 401  
20 Certification as a ch. 90.48 RCW order, thereby ensuring that conditions that might otherwise  
21 expire with the 404 Permit continue into the future. In addition, where an applicant has an  
22 individual NPDES permit to operate its facility, Ecology will incorporate appropriate 401  
23 Certification conditions into that permit, thus allowing for future enforcement of those  
24 conditions.

25 The breadth of the 401 Certification issued to the Port is appropriate and within the  
26 authority granted Ecology. As discussed above, Ecology analyzed the project's impacts on

1 water quality and, where appropriate, crafted conditions for the 401 Certification requiring the  
2 Port to address those impacts and monitor aspects of the project. The Port operates the airport  
3 under an individual NPDES permit, which is presently under review for renewal. In that  
4 process, Ecology will include appropriate 401 Conditions into the renewed NPDES permit.  
5 *See, e.g.*, 401 Condition J(2)(a). By utilizing the authority of ch. 90.48 RCW and incorporating  
6 conditions into the Port's NPDES permit, Ecology has guaranteed that conditions in the 401  
7 Certification will continue beyond the expiration of the 404 Permit.

### 8 3. CZMA Consistency Concurrence Properly Granted

9 The Port's project will occur in Washington's coastal zone thus requiring the Port to  
10 obtain a CZMA consistency concurrence statement from Ecology.<sup>8</sup> The process for  
11 determining consistency with Washington's Coastal Zone Management Program (CZMP)  
12 involves the following steps: (a) review of the project to determine whether appropriate water  
13 quality authorizations have been obtained; (b) review of any SEPA documents submitted for  
14 the project to determine whether SEPA has been completed; (c) verify that, where applicable,  
15 appropriate shoreline management authorizations have been obtained; and (d) verify that,  
16 where applicable, appropriate Clean Air Act authorizations have been obtained.<sup>9</sup> After this  
17 review, Ecology determines whether the proposed project is consistent with Washington's  
18 CZMP. If consistency is found, a concurrence letter is issued to the applicant. If the project is  
19 found not to be consistent with Washington's CZMP, a letter objecting to consistency is  
20 issued.<sup>10</sup>

21 The Port submitted an application for Certification of Consistency with Washington's  
22 CZMP. In reviewing the Port's application, Ecology verified that the Port had complied with  
23 the enforceable policies of Washington's CZMP.<sup>11</sup> In that review Ecology verified that (a) the  
24

25 <sup>8</sup> See Direct Testimony of Gordon White at ¶¶ 8-9.

<sup>9</sup> *Id.* at ¶ 22.

<sup>10</sup> *Id.* at ¶ 23.

<sup>11</sup> See Direct Testimony of Ann Kenny at ¶ 46.

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1 Port had completed its SEPA review;<sup>12</sup> (b) the Port obtained a shoreline exemption from the  
2 City of Auburn for the proposed wetland mitigation site; (c) the Port has a valid individual  
3 NPDES permit for the airport site, has obtained a general NPDES stormwater permit for  
4 construction of the Auburn mitigation site, and was issued a 401 certification for the proposed  
5 project; and (d) the Port had the appropriate discharge permits from the Puget Sound Clean Air  
6 Agency and the scope of the project had not changed so as to alter Ecology's determination  
7 that the SeaTac area was in compliance with National Ambient Air Quality Standards for  
8 carbon monoxide and nitrous oxide.<sup>13</sup> The sole outstanding issue for CZMP consistency is  
9 whether Ecology properly determined in issuing the 401 Certification that it had reasonable  
10 assurance that the project as proposed and conditioned will meet applicable water quality  
11 standards. As demonstrated in this brief and as will be proven at trial, Ecology's issuance of  
12 the 401 Certification was appropriate and, therefore, Ecology properly concurred that the  
13 Port's project is consistent with Washington's CZMP.

#### 14 **4. Wetland Impacts Are Fully Mitigated**

15 The 401 Certification adequately compensates for impacts to wetlands created by the  
16 Port's construction of its proposed project. In addition, the wetland mitigation will result in net  
17 benefits to the highly urbanized and degraded Miller, Walker and Des Moines Creek basins.  
18 The Port's project will result in the filling of 19.29 acres of wetlands.<sup>14</sup> Construction activities  
19 will temporarily impact an additional 2.05 acres of wetlands, which has been treated as a  
20 permanent impact that must be mitigated. The 401 Certification requires the Port to restore  
21 and enhance ecological and hydrological functions to 176 acres of land, with approximately  
22 111 acres of the mitigation occurring on-site. The in-basin mitigation includes the restoration  
23 of over 9 acres of wetlands, enhancement of more than 22 acres of wetlands, approximately 55

24 <sup>12</sup> The Board recently granted the Port's Motion for Summary Judgment on the issue of whether the Port  
25 and Ecology had complied with SEPA.

<sup>13</sup> See Direct Testimony of Ann Kenny at ¶ 46.

26 <sup>14</sup> The impact total is derived from the 18.37 acres of impact identified in the Corps Public Notice plus  
0.92 acres of prior converted cropland that Ecology regulates under ch. 90.48 RCW.

1 acres of wetland buffer enhancement and riparian corridor restoration, and preservation of 2.35  
2 acres of wetlands and 21.20 acres of wetland buffer. The 65.38 acres of out-of-basin  
3 mitigation is provided through the creation of 29.98 acres of wetlands, enhancement of 19.5  
4 acres of wetlands and 15.9 acres of wetland buffer.<sup>15</sup>

5 As described in the testimony of Erik Stockdale and Katie Walter, the required  
6 mitigation meets Ecology's wetland mitigation policies, provides meaningful mitigation to the  
7 impacted basins, and includes appropriate monitoring and performance standards that ensure  
8 that the mitigation will be successfully implemented.<sup>16</sup> The off-site mitigation is consistent  
9 with Ecology's Alternative Mitigation Policy Guidance<sup>17</sup> and the provisions of ch. 90.74  
10 RCW.<sup>18</sup> Ecology has reasonable assurance that through the mitigation detailed in the NRMP,  
11 in combination with the conditions in the 401 Certification, the Port's project will meet  
12 applicable water quality standards with respect to impacts to wetlands and aquatic resources.

### 13 **5. Ecology's 401 Certification Includes Specific Conditions To Ensure** 14 **Mitigation Of Low Flow Impacts**

15 The addition of impervious surface area resulting from the MPU projects will cause  
16 stormwater that would otherwise infiltrate into the ground and contribute to base flows in  
17 Miller, Walker, and Des Moines Creeks to runoff instead, thus lowering base flows during the  
18 summer low flow months. The Port has engaged in extensive hydrologic modeling to predict  
19 the low flow impacts. To offset the impact, the Port proposes to construct stormwater  
20 detention facilities that will detain, treat and release stormwater to the streams during the  
21 calculated low flow periods. Ecology's consultant, Kelly Whiting, reviewed the Port's July  
22 2001 low flow plan and the revised plan submitted in December 2001 and concluded that the  
23 Port's proposals are technically feasible.<sup>19</sup> In addition, Mr. Whiting concluded that the models

24 <sup>15</sup> See Direct Testimony of Erik Stockdale at ¶ 5.

25 <sup>16</sup> *Id.* at ¶¶ 6-44, 50; Direct Testimony of Katie Walter at ¶¶ 7-30.

26 <sup>17</sup> See Ecology Exhibit No. 2193.

<sup>18</sup> See Direct Testimony of Erik Stockdale at ¶¶ 45-49.

<sup>19</sup> See Direct Testimony of Kelly Whiting at ¶ 16.

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1 used by the Port were “sufficiently calibrated to accurately predict low flow impacts in Miller  
2 and Walker Creeks” provided some adjustments and checks were performed.<sup>20</sup> With regard to  
3 Des Moines Creek, he accepted the Port’s model based on the fact that it was based on the  
4 model used in the Des Moines Creek Basin Plan.

5 The third runway embankment has the effect of moderating low flow impacts because  
6 stormwater that infiltrates into it is delayed in its progress toward the streams. To quantify this  
7 effect, the Port utilized and refined previous work that had been done by Pacific Groundwater  
8 Group (PGG) pursuant to a legislatively mandated study, overseen by Ecology, of the  
9 embankment’s hydrologic impacts.<sup>21</sup> PGG developed a groundwater model, Hydus, to  
10 simulate groundwater flow through a cross section of the embankment and integrated the  
11 results over the embankment’s entire length. These results were then incorporated into the  
12 stream models used to predict low flow impacts. Ecology reviewed the groundwater modeling  
13 conducted by PGG and concluded that the assumptions used in the model were reasonable and  
14 that drainage from the proposed embankment was adequately characterized.<sup>22</sup>

15 Ecology’s 401 Certification provides reasonable assurance that low flow impacts will  
16 be mitigated because it requires the Port to implement and revise the July 2001 Low Flow  
17 Plan. Further, the Port already has made or rendered moot most of the revisions requested by  
18 Ecology in its December 2001 plan.<sup>23</sup> The Port continues to refine the modeling that forms the  
19 basis of the plan in response to ongoing review by Ecology’s consultant.<sup>24</sup> By setting up a  
20 process of continuous review by technical experts and further refinement by the Port in  
21 response to that review, Ecology has reasonable assurance that low flow impacts will be  
22 mitigated.<sup>25</sup>

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23  
24 <sup>20</sup> *Id.* at ¶ 14.

<sup>21</sup> *See* Direct Testimony of Dave Garland at ¶ 6.

<sup>22</sup> *Id.* at ¶ 20.

<sup>23</sup> *See* Direct Testimony of Kelly Whiting at ¶ 13.

<sup>24</sup> *Id.* at ¶ 16.

<sup>25</sup> *See* Direct Testimony of Ann Kenny at ¶ 41.

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1 Material”) and Ecology’s requirement that fill materials used for the project not be sources of  
2 any contaminants that would exceed state surface water standards (WAC 173-201A) and state  
3 groundwater standards (WAC 173-200) at any time over the life of the project. When  
4 developing the fill criteria, Ecology was specifically guided by the requirements of WAC  
5 173-201A-040(1) (“[t]oxic substances shall not be introduced above natural background levels  
6 in waters of the state which have the potential either singularly or cumulatively to adversely  
7 affect characteristic water uses”) and the anti-degradation standard in WAC  
8 173-201A-070(4)(a) (“[e]xisting instream uses and the level of water quality necessary to  
9 provide full support to those uses must be maintained and protected”).<sup>30</sup>

10 Under Condition E, the Port is restricted to using only naturally occurring  
11 uncontaminated soils as fill material. Under Condition E(1)(c), there are only three sources  
12 from which the Port is allowed to obtain fill: state-certified borrow pits, contractor-certified  
13 borrow pits, and Port of Seattle-owned properties.<sup>31</sup> Condition E(1)(d) *Prohibited Fill Sources*  
14 prohibits the Port from using “[f]ill which consists in whole or in part of soils or materials that  
15 are determined to be contaminated following a Phase I or Phase II site assessment.” Phase I  
16 and Phase II site assessments refer to established protocols from the American Society for  
17 Testing and Material Standards (ASTM) for investigating historical uses of a site and  
18 necessary record reviews that may disclose actual or potential instances of site contamination.  
19 Condition E(1)(d) also prohibits the Port from using “soils or materials that were previously  
20 determined to be contaminated by a Phase I or Phase II site assessment and have been treated  
21 in some manner so to be considered re-mediated soils or fill material.” If any of this fill is  
22 determined to be “contaminated” the Port is prohibited from using the material for the project  
23 and, even if it has been remediated, it cannot be used.<sup>32</sup>

24  
25 <sup>30</sup> See Direct Testimony of Kevin Fitzpatrick at ¶ 29.

26 <sup>31</sup> See Direct Testimony of Ann Kenny at ¶ 29.

<sup>32</sup> *Id.* at ¶¶ 30, 34.

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1 Under Condition E(1)(a) *Documentation*, the Port must investigate the proposed fill  
2 source to determine whether the site has any history of contamination. This condition defines  
3 the detailed nature of the site investigation and the information that must be submitted to  
4 Ecology documenting that investigation. Specifically, Condition E(1)(a) requires that:

5 The environmental assessment shall be conducted by an environmental  
6 professional in general conformance with the American Society for Testing and  
7 Materials Standard (ASTM) E 1527-00 Standard Practice for Environmental  
8 Site Assessments: Phase I Environmental Site Assessment Process, and E 1903-  
9 97 Standard Guide for Environmental Site Assessments: Phase II  
10 Environmental Site Assessment Process.

11 The verification provisions, contained in Conditions E(1)(a)(iv) *Fill Source Sampling*  
12 and E(1)(b) *Criteria*, require the Port to sample fill materials for the potential contaminants  
13 identified and sets forth criteria for concentrations of naturally occurring contaminants in soil.  
14 The purpose of the verification is twofold: (1) to establish that the source of fill is indeed  
15 uncontaminated; and (2) to ensure that even naturally occurring contaminants in soil do not  
16 exceed the specified concentrations. The latter requirement is needed because of the potential  
17 for naturally occurring contaminants present in the soil at concentrations in excess of the stated  
18 criteria to exceed state groundwater and surface water standards if mobilized. For example,  
19 naturally occurring contaminants such as arsenic and copper could be at concentrations in a fill  
20 source where, if mobilized, they present a risk of violating state groundwater and surface water  
21 standards at some time over the life of the project.<sup>33</sup>

22 Ecology developed the criteria established for concentrations of the naturally occurring  
23 contaminants listed in Condition E(1)(b) to protect surface water and groundwater.<sup>34</sup> The Port  
24 must employ the stricter criteria when screening fill for placement in the fill profile where the  
25 location increases the risk of those contaminants reaching surface water or groundwater.

26 Conditions E(2) *As-Built Documentation* and E(3) *Post Construction Monitoring*  
provide additional assurance that the fill materials used meet the objective that the placement

<sup>33</sup> See Direct Testimony of Kevin Fitzpatrick at ¶ 32.

<sup>34</sup> *Id.* at ¶ 33.

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1 of fill not jeopardize either state surface or groundwater standards. To that end, Condition E(2)  
2 establishes a tracking system for fill materials imported onto the construction site so that  
3 Ecology and the Port know with some certainty the exact location and elevation of the  
4 materials used. In addition, under Condition E(3) the Port is required to monitor both surface  
5 water and groundwater conditions throughout the project development. Finally, in both August  
6 and September 401 Certifications Ecology required the Port to develop an embankment  
7 seepage monitoring plan. The Port has submitted the plan and Ecology is presently reviewing  
8 it.<sup>35</sup> The monitoring requirements in Ecology's 401 Certification serve as an "early-warning"  
9 system concerning surface water and groundwater conditions in the unlikely event that the Port  
10 places unsuitable fill material onto the site.

11 The fill criteria and protocols established in Condition E provide for the protection of  
12 the water quality of state groundwater and surface water in the Port's construction of its  
13 proposed project.<sup>36</sup> As a result, it is highly unlikely that the Port will place contaminated fill or  
14 that contaminants will mobilize and move into groundwater and surface waters at  
15 concentrations exceeding acute or chronic criteria established in the state's surface and  
16 groundwater standards. The unprecedented requirements placed on the Port in its selection and  
17 use of fill material provide Ecology with reasonable assurance that the Port will meet  
18 Washington State's surface water and groundwater quality standards throughout the life of this  
19 project.

#### 20 **8. Migration Of Contaminated Groundwater Is Not An Issue**

21 ACC may contend that existing groundwater contamination at Sea-Tac may migrate to  
22 MPU construction areas. However, ACC's prefiled testimony does not pursue the issue. Also,  
23 under its pathways analysis Ecology has reasonable assurance that migration of groundwater  
24  
25

26 <sup>35</sup> See Direct Testimony of Ann Kenny at ¶ 35.

<sup>36</sup> See Direct Testimony of Kevin Fitzpatrick at ¶ 35.

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1 contamination is not an issue.<sup>37</sup> The pathways analysis was a component of Ecology's 401  
2 Certification for the Port's MPU project.<sup>38</sup>

3 The pathways analysis work evaluated four potential pathways:

4 a. The potential for chemical contaminants to migrate from beneath the SeaTac  
5 Airport Operations and Maintenance Area (AOMA) to the perched and regional water  
6 table aquifer (referred to as the Qva aquifer);

7 b. The potential for contaminants to migrate vertically and laterally in the perched  
8 and regional water table aquifer;

9 c. The potential for contaminants and groundwater contamination to affect water  
10 quality in the 3<sup>rd</sup> runway area; and

11 d. The potential for subsurface utility lines to act as conduits of contaminant  
12 migration.

13 As part of the pathways analysis, the Port conducted a comprehensive identification of  
14 subsurface contaminant sources at the SeaTac AOMA. The contaminant identification effort  
15 included a careful evaluation of the extent of vertical and lateral migration of contaminants and  
16 contaminated groundwater. The Port also conducted a comprehensive identification of  
17 groundwater flow directions at the SeaTac AOMA. Finally, the Port conducted a careful  
18 evaluation of available data to identify the directions, and extent of vertical and lateral  
19 migration of groundwater in the perched and Qva aquifers.<sup>39</sup>

20 Contractors for the Port of Seattle compiled the data for the pathways analysis and its  
21 components (contaminant migration and groundwater flow). Ecology instructed the Port  
22 contractors to utilize the data to develop conceptual models, maps, and diagrams for Ecology  
23 to conduct the pathways analysis. Ecology evaluated the potential impacts to water quality and

24 <sup>37</sup> See Direct Testimony of Ching-Pi Wang at ¶¶ 3-10.

25 <sup>38</sup> *Id.* at ¶ 4. The work to be performed for the pathways analysis was specified in Ecology's Agreed  
26 Order #97TC-N122 (see State of Washington Department of Ecology Agreed Order #97TC-N122, In the Matter  
of Sea-Tac International Airport, p. 6, section IV, 1b).

<sup>39</sup> See Direct Testimony of Ching-Pi Wang at ¶ 6.

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1 determined that it is very unlikely subsurface contaminants and contaminated groundwater  
2 from the SeaTac AOMA area will affect water quality in the vicinity of the third runway.  
3 Based on the data and analyses summarized briefly above, Ecology is reasonably assured that  
4 subsurface contaminants beneath the SeaTac AOMA will not reach the third runway.<sup>40</sup>

5 Furthermore, under Condition F.1 of Ecology's 401 Certification the "Port shall submit  
6 to Ecology proposed construction BMPs to prevent interception of contaminated groundwater  
7 by utility corridors and a plan to monitor potential contaminant transport to soil and  
8 groundwater via subsurface utility lines at the STIA and submit to Ecology for review and  
9 written approval no later than November 9, 2001." The Port has submitted the proposed  
10 construction BMPs and the monitoring plan to Ecology. Ecology has reviewed and concurs  
11 with both the proposed construction BMPs and the monitoring plan and recommends their  
12 immediate implementation.<sup>41</sup>

13 **9. The Port's Stormwater Discharges Will Meet Water Quality Standards**

14 The 401 Certification provides reasonable assurance that the Port's proposed  
15 stormwater discharges will meet water quality standards because it requires the Port to comply  
16 with a Comprehensive Stormwater Management Plan (CSMP) and NPDES permit, and it  
17 precludes the Port from discharging stormwater from new impervious surfaces until the Port  
18 conducts a detailed site specific study to ascertain whether additional treatment requirements  
19 are needed. The CSMP meets, and goes beyond, the technical requirements of the King  
20 County Surface Water Design Manual (King County Manual).<sup>42</sup> The CSMP goes beyond the  
21 requirements of the King County Manual by including flow control facilities designed to meet  
22 a target flow regime based on predevelopment conditions and by including water quality and  
23 flow control retrofits for existing developments. The 401 Certification requires the Port to  
24

25 <sup>40</sup> See Direct Testimony of Ching-Pi Wang at ¶ 9.

26 <sup>41</sup> *Id.* at ¶ 10.

<sup>42</sup> See Direct Testimony of Kelly Whiting at ¶ 5.

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1 retrofit its existing facilities at a rate of 20% retrofit for every 10% of new impervious surface  
2 added.

3 The Port's stormwater discharges are regulated under an individual NPDES permit.  
4 This permit, consistent with guidance from the U.S. Environmental Protection Agency and  
5 Ecology's water quality standards, relies on best management practices (BMPs) to treat  
6 stormwater.<sup>43</sup> See WAC 173-201A-160(3)(a). Due to the inherently variable nature of  
7 stormwater, it is difficult if not impossible to apply Ecology's numeric water quality standards  
8 to stormwater.<sup>44</sup> Therefore, the ACC's assertions that the Port's stormwater discharges  
9 currently violate state water quality standards are erroneous.<sup>45</sup>

10 In the 401 Certification, Ecology required the Port to undertake site specific studies, or  
11 water effects ratio (WER) studies, so that numeric effluent limitations could be established and  
12 incorporated into the Port's NPDES permit. These studies are necessary to determine the  
13 appropriate level of treatment to be required of the Port.<sup>46</sup> There is limited data currently  
14 available regarding the effectiveness of emerging technologies for the treatment of metals in  
15 stormwater.<sup>47</sup> By using the NPDES permit and the WERS data to establish effluent  
16 limitations, Ecology has established a "feedback loop" that ensures that water quality standards  
17 will be met.<sup>48</sup>

18 The BMPs to be utilized by the Port are consistent with those required by the King  
19 County Manual.<sup>49</sup> The performance goal of those BMPs is 80% removal of total suspended  
20 solids. By achieving that performance goal, the proposed BMPs should be partially effective at  
21 removing metals from the Port's stormwater because some of the metals will be in particulate  
22

23 \_\_\_\_\_  
<sup>43</sup> See Direct Testimony of Kevin Fitzpatrick at ¶ 5.

24 <sup>44</sup> *Id.* at ¶ 10.

25 <sup>45</sup> *Id.* at ¶¶ 11-12.

26 <sup>46</sup> See Direct Testimony of Ed O'Brien at ¶¶ 6, 10.

<sup>47</sup> *Id.* at ¶ 7.

<sup>48</sup> See Direct Testimony of Kevin Fitzpatrick at ¶ 24.

<sup>49</sup> See Direct Testimony of Kelly Whiting at ¶ 11.

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1 form.<sup>50</sup> If the results of the WER study or monitoring shows that additional BMPs are  
2 required, Ecology's reviewer concluded that it is feasible under the Port's CSMP to add those  
3 BMPs.<sup>51</sup>

4 Issuance of an NPDES permit is a determination by Ecology that water quality  
5 standards will be met by the project if the conditions in the permit are followed. Therefore, the  
6 same standard governs issuance of an NPDES permit as applies to issuance of a 401  
7 Certification, and Ecology properly may rely on an NPDES permit in determining reasonable  
8 assurance under CWA § 401. *Protect the Peninsula's Future v. Dep't of Ecology*, PCHB No.  
9 96-178 (1996). Incorporation of appropriate 401 Certification conditions into the Port's  
10 NPDES permit gives Ecology an enforcement mechanism to ensure compliance with water  
11 quality standards even after the 401 Certification expires.

12 **10. Future Monitoring Authorized; Pre-construction Monitoring Sufficient**

13 CWA § 401(d) specifically provides for the inclusion in a 401 Certification of  
14 conditions requiring future monitoring necessary to assure that the applicant complies with  
15 applicable water quality standards and any other appropriate requirement of state law.  
16 33 U.S.C. § 1341(d). The 401 Certification issued to the Port includes monitoring conditions  
17 that are in compliance with CWA § 401(d).

18 The ACC asserts that the absence of hydrologic data precludes Ecology from being  
19 able to develop hydrologic performance standards for wetlands downslope of the embankment.  
20 As described in the testimony of Katie Walter, it is difficult to define the hydroperiod for the  
21 slope wetlands that drain to Miller Creek because the hydroperiod for those wetlands varies  
22 from year to year, with no predictable pattern.<sup>52</sup> The NRMP provides for hydrologic  
23 monitoring of the downslope wetlands and, because of the uncertainty in relying on that data  
24 alone, additional data will be collected in the wetlands. Those data points will be compared to

25 <sup>50</sup> *Id.*, at ¶ 11.

26 <sup>51</sup> *Id.* at ¶ 10.

<sup>52</sup> See Direct Testimony of Katie Walter at ¶ 16.

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1 the performance standards in the NRMP to determine if wetland hydrology is maintained. If  
2 necessary, through adaptive management the amount of water the wetlands receive can be  
3 manipulated.<sup>53</sup> The design criteria in the NRMP constitute reasonable performance criteria and  
4 those criteria are buttressed by an adaptive management strategy to ensure that the proposed  
5 mitigation sites perform as expected. Moreover, the performance standards are sufficiently  
6 prescriptive to provide reasonable assurance that the applicable water quality standards will be  
7 met but not so prescriptive as to not be implementable.<sup>54</sup>

8 **11. 401 Certification's Conditions Requiring Future Submittals Does Not**  
9 **Diminish Reasonable Assurance**

10 As explained in Ms. Kenny's testimony, Ecology's determination of whether there is  
11 reasonable assurance that a proposed project will comply with applicable water quality  
12 standards is a two step process: (1) determine, through a preponderance of the evidence, that  
13 water quality standards can and will be met, and identify any areas of uncertainty; and (2)  
14 address the areas of uncertainty by including measures that will remove or reduce the  
15 uncertainty.<sup>55</sup> Conditions imposed in a 401 Certification often require the applicant to submit  
16 additional data such as monitoring reports, as-built plans for mitigation sites, and plan  
17 revisions incorporating the 401 Certification conditions.

18 In issuing a 401 Certification, the agency has determined it has reasonable assurance  
19 that the project and the proposed mitigation is adequate and the project will not result in  
20 discharges that violate applicable water quality standards or result in further degradation of  
21 beneficial uses, so long as the conditions in the 401 Certification are fully complied with. If  
22 the recipient is out of compliance with a particular condition of the certification, reasonable  
23 assurance is not broken. Ecology addresses an applicant's lack of compliance on a  
24

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25 <sup>53</sup> *Id.* at ¶ 19.

26 <sup>54</sup> *Id.* at ¶¶ 8, 13.

<sup>55</sup> *See* Direct Testimony of Ann Kenny at ¶ 9. *See also* Direct Testimony of Gordon White at ¶ 18.

1 case-by-case basis and has a variety of mechanisms to ensure ongoing compliance with the  
2 certification's conditions, including exercising its enforcement authority.<sup>56</sup>

3 In the 401 Certification issued to the Port, Ecology required the submittal of revised  
4 plans or reports addressing specific conditions in the Certification.<sup>57</sup> In addition, as permitted  
5 by CWA § 401(d), the 401 Certification requires the Port to monitor specific aspects of the  
6 project and directs the Port to develop appropriate monitoring plans for Ecology's review and  
7 approval.<sup>58</sup> As required by the 401 Certification, the Port has revised existing plans and  
8 developed monitoring plans and submitted those documents to Ecology for its review. These  
9 conditions are not unique to this 401 Certification nor do they indicate that Ecology does not  
10 have reasonable assurance that the project will comply with applicable water quality standards.

11 At the hearing on this appeal, the Board will determine whether the project as presented  
12 meets the requirements of CWA § 401. *Barrish & Sorenson Hydroelectric v. Dep't of*  
13 *Ecology*, PCHB No. 94-193 (Conclusion of Law 4) (1995). Under its *de novo* review, the  
14 Board can and should consider all relevant evidence presented, including the plans and reports  
15 developed by the Port in response to the conditions in the 401 Certification.

16 Moreover, the 401 Certification's requirement that the Port obtain dam safety permits  
17 for its stormwater facilities is not unique to this Certification nor does such a requirement  
18 lessen the agency's reasonable assurance determination. Ecology was aware that some of the  
19 Port's proposed stormwater facilities would require a dam safety permit from Ecology and,  
20 therefore, Condition G requires the Port to obtain the necessary dam safety permits prior to  
21 beginning construction of any such facility. Ecology had reasonable assurance that water  
22 quality standards would not be violated at the time the 401 Certification was issued because the

23 <sup>56</sup> See Direct Testimony of Ann Kenny at ¶¶ 10-11.

24 <sup>57</sup> See, e.g., Condition D(3), Revised NRMP; D(4), Conceptual Plan for Wetland A17 Complex;  
25 D(7)(a)(iii), Mitigation As Built Report; E(2), Fill Placement As Built Reports; F(1), Plan to Prevent Transport of  
Contaminants; I (1), Revised Low Streamflow Analysis and Summer Low Flow Impact Offset Facility Proposal.

26 <sup>58</sup> See, e.g., Condition A(2), Instream/Shoreline Work Monitoring Plan; D(7), Annual Wetland  
Monitoring Report; E(3), Fill Embankment Seepage Monitoring Plan; I(e), Low Flow Stream Monitoring; K8(3),  
Stormwater Monitoring Plan for Construction and Stormwater Discharges.

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1 agency had reviewed the sizing of the stormwater facilities and determined that they were  
2 appropriately sized for stormwater collection purposes. Ecology also required that, if any of  
3 the stormwater facilities changed during final design, the Port shall provide Ecology with those  
4 changes for its review and written approval.<sup>59</sup> Condition G is an appropriate component of  
5 Ecology's reasonable assurance determination.

6 **12. Ecology Properly Relied On the Port's NPDES Permit And Site Specific**  
7 **Studies In Issuing The 401 Certification**

8 The Port's stormwater discharges do not routinely violate state water quality standards  
9 as claimed by the ACC. The state water quality standards for toxic pollutants, set forth in  
10 WAC 173-201A-040, cannot readily be applied to stormwater discharges because of the  
11 difficulty in determining exceedences of the standards for the necessary period of time and  
12 attributing those exceedences to a particular outfall.<sup>60</sup> The Port's annual monitoring reports  
13 show instantaneous exceedences for copper, lead, and zinc, but they do not show that the state  
14 criteria were exceeded for the necessary period of time. They also do not report concentrations  
15 in the receiving waters but instead report concentrations in the stormwater discharges. The  
16 state water quality standards apply only in the receiving waters.<sup>61</sup> In order to determine  
17 violations in the receiving waters attributable to the Port's discharges, it would be necessary to  
18 sample upstream and downstream of the Port's discharges which is difficult to do because the  
19 Port's discharges travel through pipes, ponds, and ditches before reaching the receiving waters.  
20 Also, there is considerable debate in the field regarding the proper sampling method to  
21 characterize pollutant concentrations in highly variable stormwater discharges.<sup>62</sup>

22 For these reasons, Ecology directed the Port in the 401 Certification to conduct a site  
23 specific study to determine whether the Port's discharges are violating state water quality  
24 standards and to determine appropriate effluent limitations to be set in the Port's NPDES

25 <sup>59</sup> See Direct Testimony of Ann Kenny at ¶ 48.

<sup>60</sup> See Direct Testimony of Kevin Fitzpatrick at ¶ 10.

<sup>61</sup> *Id.* at ¶ 11.

<sup>62</sup> *Id.*

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1 permit. The 401 Certification prohibits the Port from discharging stormwater from new  
2 pollution generating impervious surfaces at STIA until effluent limitations are established in  
3 the Port's NPDES permit.<sup>63</sup> As explained above, reliance on effluent limitations in an NPDES  
4 permit for reasonable assurance is entirely appropriate under both Ecology policy and the  
5 Board's previous decisions, where, as here, the anticipated discharges are capable of being  
6 controlled under the NPDES permit.<sup>64</sup> The Port's discharges are capable of being controlled  
7 under the NPDES permit because, if the site specific study or monitoring shows a need for  
8 additional BMPs, those BMPs may be required and feasibly installed under the stormwater  
9 management plan.

### 10 **13. Mixing Zone Not Authorized In Violation Of Water Quality Standards**

11 The 401 Certification does not authorize a "mixing zone" in violation of water quality  
12 standards. Condition A(1) of the 401 Certification provides that the water quality criteria of  
13 WAC 173-201A-030(a) and 173-201A-040 apply to the Port's project and that temporary  
14 exceedences of water quality standards beyond the limits of WAC 173-201A-110(3) are not  
15 permitted.<sup>65</sup> For instream and shoreline work only, Condition A(1) allows temporary  
16 exceedences of water quality standards for turbidity as permitted by WAC 173-201A-110(3).  
17 Condition A(2)(d) further states that any mixing zone established pursuant to that regulation  
18 must be minimized pursuant to WAC 173-201A-100. These conditions do not authorize  
19 mixing zones for any work other than instream and shoreline work and for no other criteria  
20 than turbidity. The 401 Certification does not authorize mixing zones for stormwater  
21 discharges from the Port's STIA industrial operations.<sup>66</sup>

22  
23  
24  
25 <sup>63</sup> See Direct Testimony of Ann Kenny at ¶ 20.

<sup>64</sup> See Direct Testimony of Kevin Fitzpatrick at ¶¶ 24-25.

<sup>65</sup> See Direct Testimony of Ann Kenny at ¶ 44.

<sup>66</sup> See Direct Testimony of Kevin Fitzpatrick at ¶ 26 and Ann Kenny at ¶ 44.

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**POLLUTION CONTROL HEARINGS BOARD  
STATE OF WASHINGTON**

AIRPORT COMMUNITIES COALITION,

PCHB No. 01-160

Appellant,

CERTIFICATE OF SERVICE

CITIZENS AGAINST SEA-TAC  
EXPANSION,

Intervenor/Appellant,

v.

STATE OF WASHINGTON,  
DEPARTMENT OF ECOLOGY; and  
PORT OF SEATTLE,

Respondents.

Pursuant to RCW 9A.72.085, I certify that on March 12, 2002, I caused to be served, Respondent Department of Ecology's Pre-Hearing Brief, and this Certificate of Service, in the above-captioned matter to be served upon the parties herein, as indicated below:

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20 the foregoing being the last known business addresses.

21 I certify under penalty of perjury under the laws of the state of Washington that the  
22 foregoing is true and correct.

23 DATED this 12th day of March, 2002, in Olympia, Washington.

24   
25 TANYA M. ROSE  
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