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POLLUTION CONTROL HEARINGS BOARD FOR THE STATE OF WASHINGTON

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10 AIRPORT COMMUNITIES COALITION,

11

Appellant,

PCHB No. 01-160

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14 STATE OF WASHINGTON 15

DEPARTMENT OF ECOLOGY, and THE PORT OF SEATTLE.

DECLARATION OF PAUL FENDT IN SUPPORT OF PORT'S OPPOSITION TO ACC'S MOTION FOR PARTIAL SUMMARY JUDGMENT

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PAUL FENDT declares as follows:

Respondents.

19 I am over the age of 18, make this declaration based on personal knowledge, and am 20 competent to testify to the facts stated herein. 21

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Stormwater Management Experience

I graduated from the University of North Dakota with a degree in Geological 2.

24 Engineering in 1981. I was licensed as a Professional Engineer (Civil) by the State of Washington in

25 January 1991 and the State of Florida in February 1990. I have been employed by Parametrix, Inc. 26

for the past 11 years. A copy of my curriculum vitae is attached to this declaration as Exhibit A. 27

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1	3.	I have more than 18 years of stormwater engineering and plan	ming experience,
2	encompassing	a broad range of stormwater and surface water projects. I have	ve significant experience
·3	with hydrolog	ic and hydraulic modeling (HEC-1, WaterWorks, HEC-2, HE	C-RAS), NPDES
4	stormwater pe	emnits, erosion control on streams and lake shores, comprehen	sive storm and surface
5		and preparation of drainage and stormwater ordinances. I have	
6		ent of Ecology's Stormwater Manuals and with King County's	
7	are Departme	01 20000 55 0 0	
8	Manual.		
9	4.	I have been the project manager for stormwater managemen	t for the Port of Seattle's
10 11	Master Plan	Update (MPU) projects for the past four years. I was the pri	ncipal author of the Port
12	of Seattle's C	Comprehensive Stormwater Management Plan and a principal	author of the Low Stream
13	Flow Analys	is and Summer Low Flow Impact Offset Facility Proposal ("	Low Flow Analysis")
14	(December 2	001). (A copy of the Low Flow Analysis is attached to this D	eclaration as Exhibit B.)
15		n very familiar with the stormwater management facilities and	
16 17		of Ecology for the MPU projects.	
18	. 2 • F	Impacts of Development on Stormwat	er
19	5.	New development, which generally consists of constructing	
20			
21		land can, if unmitigated, profoundly affect natural flow and w	
22	streams and	other receiving waters. The purpose of stormwater management	nent is to provide an
23	integrated a	pproach to mitigating water resource impacts caused by devel	opment. Stormwater
24	managemen	t consists of a complex analysis of hydrology and hydraulics	and the coordination and
25		ormwater management best management practices (BMPs).	
26	dezign or ac	JIIII Water India Barrer Control	
27			
28	DECLARATION ACC'S MOTION PAGE 2	OF PAUL FENDT IN SUPPORT OF PORT'S OPPOSITION TO N FOR PARTIAL SUMMARY JUDGMENT	Marten Brown inc. 421 S. Capitol Way, Suite 303 Olympia, Washington 98501 (360) 786-5057

Generally, the construction of new impervious surfaces prevents infiltration of 6. 1 precipitation that causes two flow-related impacts: first, increased runoff, which can cause flooding 2 and damage stream channels, leading to erosion and damage to aquatic habitat (high or "peak" flow 3 impacts); and second, decreased infiltration and recharge to groundwater, which can in turn diminish 4 5 baseflows in streams (low streamflow impacts). Impervious surfaces also accumulate pollutants from 6 impervious area that are "washed off" by precipitation into surface waters. Surface water 7 management systems typically include a combination of BMPs that address different components of 8 the natural hydrologic cycle. Both peak and low flow stormwater management consist of delaying 9 10 stormwater so it is released to streams at approximately the same time and rate it would have 11 discharged to the streams before the impervious surface was constructed. For example, infiltration 12 and detained stormwater mitigate lost groundwater recharge. Detention facilities can mitigate both 13 peak flow and low flow impacts by collecting runoff generated by impervious surfaces and slowly 14 15 releasing water to the stream during times of lower stream flow. Water quality BMPs, such as filter 16 strips and wetponds, remove particulates and pollutants much as natural streamside vegetation 17 18 "filters" runoff before it runs into the stream.

Stormwater Management in Washington

7. In Washington, stormwater management is subject to a complex set of federal, state and local regulatory requirements. Certain stormwater discharges, e.g., those from large industrial or construction sites, require an NPDES permit under the Clean Water Act. In Washington, stormwater NPDES permits are issued by the Department of Ecology (Ecology). Typically, a stormwater NPDES permit requires the preparation of a site-specific stormwater management plan, usually referred to as a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP must incorporate

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1	BMPs appropriate to the site. A full menu of BMPs is described in stormwater manuals developed
2	by Ecology and local governments. The Port has obtained an NPDES permit for its stormwater
3	discharges, and has prepared a SWPPP as required by the permit.
4	8. The stormwater manual prepared by Ecology is referred to as the Stormwater
5	Management Manual for Western Washington (the "Ecology Manual") (Ecology 2001). King County
6 7	has also developed a stormwater manual which is referred to as the King County Surface Water
8	Design Manual. (King County 1998) Both of these manuals provide standards and guidance for
9	hydrologic modeling, stormwater management, and a menu of BMPs to control impacts from
10	development. The King County and Ecology Manuals were used as guidance for analyzing and
11 12	mitigating impacts from the MPU projects, as described in the Comprehensive Stormwater
13	Management Plan (SMP)(Parametrix 2001).
14	MPU Stormwater Impacts
15	9. The MPU project will add a total of approximately 106, 6, and 128 acres of new
16	impervious surface to the Miller, Walker, and Des Moines Creek drainages, respectively. New
17 18	impervious surface will change the hydrology and stormwater runoff patterns of land draining from
19	Seattle-Tacoma International Airport (STIA). During rainstorms, increased volumes of stormwater
20	will drain to Miller, Walker and Des Moines Creeks that, if unmitigated, would cause peak flows in
21	the stream to increase. Stream flows in the summertime during periods of low rainfall will also be
22 23	reduced if left unmitigated.
24	10. The Port's NPDES permit requires the Port to develop appropriate facilities and
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26	impacts. The water quality certification issued by Ecology for the MPU project adds additional
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Marten Brown Inc. 421 S. Capitol Way, Suite 303 Olympia, Washington 98501 (360) 786-5057 stormwater mitigation requirements. Following is a general description of the stormwater management system developed by the Port to comply with Ecology's regulatory requirements.

of gently sloping infield grass to newly constructed catch basins. The infield grassy areas are referred to as "filter strips," an approved water quality BMP that removes particulates from stormwater before it is collected in the aforementioned catch basins. Precipitation that falls directly on the filter strips, along with some of the runoff from the impervious areas, infiltrates into the ground. Much of this pervious area surrounding the third runway is new embankment material, which is several feet thick and wide. The rainfall and runoff that infiltrates into the new embankment has been modeled, as described in the Low Streamflow Analysis, to determine the rate and volume at which this stormwater moves through the embankment and flows to Miller and Walker Creeks (there is little new embankment in Des Moines Creek basin). In Miller Creek, there is sufficient water infiltrated into the new embankment to fully mitigate the low flow impacts of new impervious area.

embankment will be collected in catch basins that convey the stormwater to detention facilities including ponds and vaults. Stormwater collected in the detention facilities will be slowly released at carefully developed flow rates, as required by Ecology's and King County's continuous flow analysis methods, to avoid peak flow impacts. As described below, detention times up to 89 days are possible when the stormwater management facility is filled to the design level. In addition, some of the stormwater collected in the vaults will be detained for a slightly longer period of time and slowly released to Walker and Des Moines Creeks during the summer months when it is anticipated that the MPU projects will periodically reduce low summer flows.

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1	13.	The purpose of mitigating high flow and low flow im	pacts is the same - to mimic pre-
1 2	development o	conditions, to maintain streamflows to protect aquatic	habitat and aquatic organisms,
3	and to ensure	that water quality standards will be met.	
4	14.	In developing the MPU stormwater management plan	n, it was necessary to determine
5	how the prop	osed development and its new impervious surfaces wo	uld affect volumes and flow rates
6 7		r and, correspondingly, flows in affected streams. Bot	
8		ed using state of the art computer modeling. The mode	
9		$_{ m S}$ 8 - 24 of my declaration and the SMP and in the Low	
10		led in opposition to ACC's motion for stay.	
11 12	15.	It is important to understand that the projected low	flow impacts to be mitigated are
13	minimal. Th	e Low Flow Analysis shows that the predicted change	in water depth during low flow
14		aused by MPU projects is 0.4 inches and 0.1 inches for	
15		There is no predicted change to flow depth in Miller	
16 17	r	The Port's Stormwater Management Plan Cont Low Flow, and Water Quality Imp	rols for Peak Flow,
18	16.	Peak flow impacts resulting from new and existing i	mpervious surface will be mitigated
19	by capturing	g all stormwater runoff and detaining it in 344.1 acre-fe	eet of stormwater detention storage.
20 21	As describe	d above, the detained peak flow stormwater will be rele	eased over time at prescribed rates
22	so as to avo	id erosion, scouring and habitat damage associated wit	h uncontrolled stormwater
23			
24	17.	Low flow impacts from new impervious surfaces v	will be offset by three methods: (1)
25 26	C.	infiltrated stormwater from the new third runway emb	
27) detention of stormwater in underground vaults and re	
28	DECLARATIO	N OF PAUL FENDT IN SUPPORT OF PORT'S OPPOSITION TO N FOR PARTIAL SUMMARY JUDGMENT	Marten Brown inc. 421 S. Capitol Way, Suite 303 Olympia, Washington 98501 (360) 786-5057
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the summer low flow season (Des Moines and Walker Creeks); and (3) retirement of existing water uses (Miller Creek). The paragraphs below describe the first and the second methods in greater detail. The first method by which low flow impacts will be mitigated is the infiltration of . 3 18. stormwater into the third runway embankment. The infiltrated stormwater will move through the 4 5 embankment relatively slowly, and some of it will emerge as seeps that will, in turn, flow into Walker 6 and Miller Creek. It is anticipated that the maximum flow of infiltrated stormwater will reach Miller 7 Creek in July, or approximately six to seven months after maximum precipitation. Because this 8 seepage will reduce the overall low flow impact of the MPU project on Walker Creek, and mitigate 9 10 these impacts altogether in Miller Creek, less mitigation water will be needed through releases from 11 other detention facilities. 12 The second method for offsetting low flow impacts is detention and release of 13 19. collected stormwater. Low flow impacts in Des Moines Creek and Walker not mitigated by seepage 14 15 from the embankment will be mitigated by retaining a small portion (32.0 acre-feet, or approximately 16 9% of the total collected volume of detained stormwater - 376.1 acre/feet) and releasing it to area 17 streams during low flow periods. Detained stormwater will be discharged continuously into the 18 affected streams during the normal low stream flow period for each of the streams. This slow release 19 20 of detained water will replicate the timing and amount of storm water base flow that came from the 21 soil before project construction. The amount of low flow releases has been determined based on site-22 specific hydrologic modeling, which predicts the impact on area streams from the construction of the 23 24 MPU improvements. 25 Stormwater from the airport runways is treated using BMPs listed in the Ecology and

King County manuals. The primary components of the treatment system are filter strips and

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1	bioswales. Filter strips allow stormwater runoff to sheet flow over large grassy areas. Flow velocity
2	is slowed by the grass, thereby enhancing the settling of particulates. The vegetation also traps
3	particles. Some stormwater infiltrates into the ground, further filtering the particles. Metals and
4	organic compounds are removed as these pollutants bind to the organic material in the soil. Bioswales
5	are grassy, flat-bottomed swales that receive rupoff after it has been collected in a detention facility.
6 7	Although flow depths and path lengths are typically greater than for filter strips, the pollution
8	removal mechanisms are the same. Vaults and ponds also treat stormwater by allowing for additional
9	settling and removal of particulates.
10	21. In my opinion, the stormwater management system for STIA described above and in
11	the SMP and Low Streamflow Analysis reports will adequately mitigate the peak flow, low flow, and
12 13	water quality impacts of the proposed MPU projects. In addition, existing stormwater impacts from
14	built areas at STIA and surrounding developed areas recently acquired by the Port will be retrofit with
15	new stormwater management systems to mitigate existing stormwater impacts in the streams
16	
17	surrounding STIA.
18	Managing Low Flow Impacts is Part of Washington's Stormwater Management Regimes
19	22. The Airport Communities Coalition (ACC) asserts that managing stormwater so as to
20	avoid low flow impacts is unusual and unprecedented. This is not consistent with my understanding
21 22	of Washington's stormwater regulatory requirements, nor is it consistent with my professional
23	experience.
24	23. Ecology's 2001 Stormwater Manual recognizes that creation of impervious surfaces
25	diminishes base flows, and that the objectives of stormwater management include mitigating this
26	impact. The Ecology Manual contains the following requirements and statements:
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28	DECLARATION OF PAUL FENDT IN SUPPORT OF PORT'S OPPOSITION TO ACC'S MOTION FOR PARTIAL SUMMARY JUDGMENT PAGE 8 MARTEN BROWN INC. 421 S. Capitol Way, Suite 303 Olympia, Washington 98501 (360) 786-5057

	1	"Stormwater Controls for New Development and Redevelopment (must) seek to achieve no net detrimental change in natural surface runoff and infiltration." (Page 1-7);
	2	"changes in natural hydrology (cause) reduced stream flows and wetlands water levels" (Page 1-17);
	3	
	4	"Projects shall employ On-site Stormwater Management BMPs to infiltrate, disperse, and retain stormwater runoff onsite to the maximum extent feasible to reduce the hydrologic disruption of developed sites." (Page 2-25);
	5	and assumptions
	6	, ' ' A serie monded to mointain heneficial lines. Walki sucus interes and
	7	concerning minimum flows needed to maintain concerning minimum flows needed to maintain concerning minimum meet the Flow majority of their natural vegetation cover and soils, and developments must meet the Flow Control Minimum Requirement of this chapter, in order to avoid significant natural resource degradation in lowland streams." (underline added) (Page 2-25);
	8	"Stormwater treatment facilities shall be selected in accordance with the process identified in
	9	Chapter 4 of Volume I" (Page 2-27)
	10	Step 1 under "Select Flow Control BMPs and Facilities" in Chapter 4 of Volume I requires that one should "determine whether you can infiltrate." (Page 4-2)
	11	It is clear from the Ecology Manual that maintaining natural hydrology, mitigating low flow impacts,
	12	
	13	and utilizing infiltration are essential objectives of stormwater management and that low flow impacts
	14	and mitigation should be considered when developing a stormwater management plan.
	15	Infiltration and Detention are the Preferred Methods of Controlling Stormwater Flows
	16	24. Infiltration is listed in Ecology's Manual as the preferred stormwater flow control
	17 18	method because it most closely resembles natural recharge conditions. When stormwater is infiltrated
	19	it is collected and allowed to move through the soil so it recharges groundwater and reduces the
	20	potential for low flow impacts. Infiltration is not an appropriate stormwater management technique
	21	in all areas, such as sites where the soils have poor infiltration characteristics or high water tables. In
-	22	
	23	these instances, especially locations where low flow reduction could cause adverse impacts, alternate
	24	low flow mitigation is needed. One such alternative is the collection and detention of runoff, which is
	25	then slowly released to avoid flow impacts. This is the alternative required by Ecology to mitigate
	26	impacts - both high flow and low flow - in Walker and Des Moines Creek.
	27	impacts – both figh flow and for More and in the management of the
	28	DECLARATION OF PAUL FENDT IN SUPPORT OF PORT'S OPPOSITION TO ACC'S MOTION FOR PARTIAL SUMMARY JUDGMENT PAGE 9 MARTEN BROWN INC. 421 S. CAPITOL WAY, SUITE 303 OLYMPIA, WASHINGTON 98501 (360) 786-5057

25. Infiltration (when feasible for the site as described above) and controlled release from
designed control structures are meant to accomplish exactly the same objective. Both are intended to
hold a large volume of stormwater for a period of time, and slowly release it to area surface water
bodies. When water is released through control structures, such as an orifice plate in a pipe, the water
is directly released to surface water. When water is "released" from a pond or vault via infiltration, it
leaks through the soil and gradually travels to a seep or surface water body, such as a stream.
26. Infiltration is not feasible in the Walker Creek and Des Moines Creek watersheds at
the locations where low flow mitigation is needed. This is due primarily to the poor infiltration

the locations where low flow mitigation is needed. This is due primarily to the poor infiltration characteristics of the soil. Instead, this stormwater will be detained in vaults and ponds and then be released to the streams at approximately the same time and in approximately the same amount that the natural system would have provided water to the stream (natural hydrologic systems are very complex and it is difficult to exactly mimic natural flow patterns). This delayed release is an appropriate surrogate for infiltration systems, which also result in delayed release.

Retention of Stormwater is a BMP of Stormwater Management

27. In addition to flow controls described above, the Ecology Manual requires that BMPs designed to reduce pollutant concentrations be applied to all new development and redevelopment. Prolonged detention and infiltration are two of these treatment BMPs, but there are many more, and several of these require lengthy detention of collected stormwater. Wetponds, wetvaults, and constructed wetlands are all Ecology-approved BMPs that can be used for water quality mitigation (the Port is not using these water quality BMPs because these techniques attract wildlife, which is dangerous at an airport). Each of these techniques relies on a permanent pool of stored water to provide stormwater treatment.

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Water in a wetpond, for example, is displaced by new stormwater coming into the 28. wetpond, but a permanent pool of water is always left in the pond. The permanent pool of water in the wetpond can only leave the pond by infiltration, evaporation, or transpiration, and this loss must be continually replaced by additional stormwater to maintain the design pool depth. Wetponds, wetvaults, and constructed wetlands have been allowed for stormwater management for several years 6 and many have been constructed. To my knowledge, a water right has not been required for this 7 commonly used stormwater management facility which permanently retains stormwater. In fact, to 8 my knowledge, a water right has never been required in Washington to manage stormwater. 9 10 Even the Port's Peak Flow Plan Detains Stormwater for Extended Periods 11 ACC asserts that storing stormwater for delayed release to mitigate low streamflow 29, 12 impacts requires a prolonged detention period that is inconsistent with typical stormwater 13 management plans. However, several of the Port's peak flow stormwater facilities will detain 14 stormwater for more than 50 percent of the year, and can take up to three months to drain after a 15 16 design storm event. 17 To meet peak flow control requirements, several of these detention facilities have very 30. 18 low prescribed flow release rates. This means that the ponds and vaults detain stormwater for much 19 of the year to avoid peak flow impacts. The following table shows that three proposed peak flow 20 21 ponds (one from each watershed) will be storing stormwater more than 62 percent of the time. 22 Contrary to popular perception, it rains on average about 13 percent of the time at Sea-Tac Airport 23 (source: Perrich 1992). That means about 50 percent or more of the time in an average year, the peak 24 flow detention facilities listed below will have stormwater stored for slow release beyond the duration 25 26 27 DECLARATION OF PAUL FENDT IN SUPPORT OF PORT'S OPPOSITION TO ACC'S MOTION FOR PARTIAL SUMMARY JUDGMENT

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of the storm event. Thus, the proposed peak flow ponds or vaults store water for a significant 1 portion of the year. 2

Facility	Percent of Time with Stormwater in Storage
Miller Creek	
SDW1B Pond	73%
Walke, Creek	
SDW2 Pond	66%
Des Moines Creek	
SDS3 Vault	62%

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ACC also asserts that the Port's stormwater management system is different from 31. typical systems because of its "precise, prolonged and exacting release rates." However, the release rates apply not only to low flow mitigation, but also to peak flow mitigation. When the ponds or vaults collect water from the design storm, the amount of time that it takes to release the detained stormwater is considerable precisely because the release rate is exacting, precise and prolonged. As explained above, this is because the goal of the stormwater management system is to mimic predevelopment conditions. Therefore, stormwater release rates are carefully prescribed so that streamflows do not exceed the levels experienced before the development occurred. For example, when detention Pond SDW1B (located in the Miller Creek basin) is filled to its design level (53.6 acrefeet), it will take 89 days to discharge all of the water, assuming no additional runoff enters the pond during this period. In Walker Creek and Des Moines Creek for the facilities in the table above, the discharge time is 17 days and 15 days, respectively.

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The new (2001) Ecology stormwater Manual requires the use of "continuous flow 32. modeling" instead of the previously preferred "event modeling" whenever the receiving waters are biologically significant. Continuous flow modeling will, in most cases, result in significantly greater detention times for peak flow control purposes. There are no standards in either the Ecology Manual DECLARATION OF PAUL FENDT IN SUPPORT OF PORT'S OPPOSITION TO MARTEN BROWNING. ACC'S MOTION FOR PARTIAL SUMMARY JUDGMENT

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or the King County Manual that require the discharge of detained stormwater within a certain time 1 period. In fact, the manuals allow permanent storage of stormwater in wetponds and continual 2 3 refilling of these ponds to replace water lost through evaporation or infiltration. In my opinion, the 4 Port's stormwater management system, including the low streamflow mitigation, does not unnaturally 5 delay the release of stormwater beyond the time required to mitigate stormwater impacts from MPU 7 projects. 8 Treatment of Stormwater is Required and Often Involves Lengthy Detention Periods 9 Stormwater treatment is a required BMP under the Ecology and King County 33. 10 stormwater manuals. When impervious surfaces are constructed, they are typically used by motor 11 vehicles or industrial activity. The activities commonly generate pollutants, such as zinc or copper, 12 13 that are collected on the impervious surfaces. These collected pollutants are "washed off" by 14 precipitation and discharged by stormwater into surface waters. The purpose of water quality BMPs 15 is to remove these pollutants before they can be discharged into surface waters, where they can harm 16 fish and other aquatic organisms. One mechanism by which these systems work is through 17 18 particulate removal, where pollutants that are attached to particulates are settled out of the 19 stormwater in pools of still water. 20 Typical settling facilities identified in the stormwater treatment BMPs include bodies 34. 21 of deep (up to eight feet), still water, also known as wetponds or wetvaults, where suspended 22 23 particulates are allowed to settle when the movement and turbulence of water can no longer provide 24 the energy to keep these particulates suspended. Wetponds are typically located after detention 25 ponds, with grassy slopes, three to eight feet deep, with a "baffle" or other means to prevent water 26 flowing into the pond from stirring up settled particulates. 27

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TOTAL P.02