

December 27, 2001

RECEIVED

DEC 28 2001

DEPT OF ECOLOGY

Ms. Ann Kenny  
3190 160<sup>th</sup> Ave SE  
Bellevue WA 98088-5452

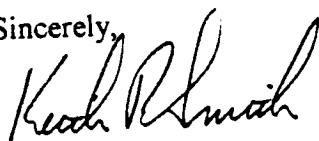
RE: Construction Stormwater Monitoring Report  
Seattle-Tacoma International Airport - Water Quality Certification No. 1996-4-  
02325 (Amended - 1)

Dear Ms. Kenny:

Enclosed are construction stormwater monitoring reports for the months of September, October and November, submitted under Section K.6 of the referenced Water Quality Certification. For this submittal, the information includes monitoring information required by both the Water Quality Certification and the airport's NPDES permit. For future submittals, we will send separate reports to Ed Abbassi for the NPDES monitoring, and to you for the monitoring required by the Water Quality Certification. Tom Hubbard will be responsible for assembling and sending the construction stormwater monitoring reports in the future.

If you have any questions, please call me at 206/988-5528, or Tom Hubbard at 206/433-7135.

Sincerely,



Keith R. Smith  
Water Resources Manager

c: Tom Hubbard POS/AV/ENV

Seattle-Tacoma  
International Airport  
P.O. Box 68727  
Seattle, WA 98169 U.S.A.  
TELEEX 703433  
FAX (206) 431-5912

AR 031461



Exhibit-2049

ECY000000022562

A CONSTRUCTION SITE STORMWATER MONITORING

Sept. 2001 Summary of Walker Ck Watershed Projects (no active workites Impact Gilliam Ck this storm event)

Monitors: R. Simmons, S. Currie

date: 9/26/01

Rainfall (depth@datetime): 0.50" @ 9/26/01, 1110  
 Rainfall (depth@datetime): 0.51" @ 9/26/01, 1254  
 Rainfall (depth@datetime): 0.43" @ 9/26/01, 1500

Location	Time	Turb	pH	Sheet?	Comments
bankment Phase 3 Construction and Stockpile Area					
discharge: outfall in catchbasin @ Lowe Blvd & 12th Ave S.	1750	-	-	-	No flow.
discharge: ditch parallel to 12th Ave S.	-	-	-	-	
discharge: ditch parallel to 12th Ave S.	-	-	-	-	
discharge: treatment facility outfall (see note 1 at end of the last page)	1752	-	-	-	Not pumping. Confirmed that no flow in open elbow where Pond F water would flow if plug removed.
US: Wetland 44a, unaffected area	-	-	-	-	
US: Wetland 44a outfall, E. side of SR 509	-	-	-	-	
SR 609/S. 176th St. Temp. Interchange					
site discharge: two cell pond W. of SRS09 below Walker Ck. outfall under SRS09	1815	36	7.29	no	Flow is < 1 gpc
US: Wetland 44a in concentrated channel above canal.	1830	28	7.62	no	Very low flow.
discharge: Wetland 43 100' below and two cell pond	830	22	7.25	no	Flow is about 4 or 5 gpc. (9/27/01)
site discharge: pond W. of SRS09 S. of S. 168th St	1745	25.4	7.04	no	No site runoff into this stagnant pond.
US: Wetland 44a in concentrated channel above canal.	-	-	-	-	
discharge: Wetland 43 100' below and pond nr S. 168th St	-	-	-	-	

Notes: (1) if treating (or not pumping), no measurement required. If pumping w/ no treatment, measure @ catchbasin in grass about 100' W of intersection of 112th Ave S & 173 Ct.

- u/s = upstream of site discharge to receiving waters
- d/s = downstream of site discharge to receiving waters
- s/d = site discharge to receiving waters
- N = north, S. = south, E. = west, W. = west
- = no measurement

AR 031462

ECY00000022563

INSTRUCTION SITE STORMWATER MONITORING  
 2001 Summary of Walker Ck Watershed Projects (no active work/sites Impact Gilliam Ck this storm event)

s. R. Simmons, R. Fard  
 2/7/01

Rainfall (depth@date@time): 0.45" @ 10/27/01 / 0630  
 Rainfall (depth@date@time): 0.50" @ 10/27/01 / 0700  
 Rainfall (depth@date@time): 0.72" @ 10/27/01 / 1230  
 Rainfall (depth@date@time): 0.75" @ 10/27/01 / 1550

Ap	Time	Turb	pH	Sheet?	Sheet?	Comments
Rd Slapping Area	1750	-	-	-	-	both ponds well below capacity, plug in place where water would run if ponds overflowed, no water in ditch running W.
charge: Two retaining ponds						
Ap						
ch running W below plugged culvert through berm						
MS, 176th St. Temp. Interchange	1910	11.2	-	no	no	flow approximately 2 gpe
charge: two cell pond W. of SR509 below Walker Ck. outfall under						
Wetland 44a in concentrated channel above const.						
Wetland 43 100' below and two cell pond						
1855	-	-	-	-	-	no flow
1855	-	-	-	-	-	a little water in ditch but not flowing to N. pond
charge: pipe outfall to N. pond on W. side of SR 509						
charge: shallow ditch from S. running to N. pond						
Wetland 44a in concentrated channel above construction						
Wetland near S. 169th Av						
1 pond near S. 169th Av	1919	-	-	-	-	no flow
ankment Phase 3 Construction and Stockpile Area						
discharge: outfall in CB @ Lowe Blvd & 12th Ave S.						
ditch parallel to 12th Ave S.						
ditch parallel to 12th Ave S.						
1910	-	-	-	-	-	not pumping, inflatable plug in pond F holding as designed
discharge: treatment outfall (see note 1 end of last page)						
Wetland 44a, unaffected area						
Wetland 44a outfall, E. side of SR 509						

AR 031463

ECY00000022564

Site: R Simmons, S. Currie  
10/31/01

Rainfall (depth@date@time): 0.53" @ 10/31/01, 1315  
 Rainfall (depth@date@time): 0.45" @ 10/31/01, 1440  
 Rainfall (depth@date@time): 0.44" @ 10/31/01, 1710

Time	Turb	pH	Sheet?	Comments
1810	-	-	-	lots of capacity in both ponds
Rd Stealing Area discharge: two retaining ponds				
Ap ch running W below plugged culvert through berm				
1840	7.8	7.16	no	about 2 gpa
US 176th St. Temp. Interchange discharge: 8' outfall below two cell pond W of SR509				
Wetland 44a in concentrated channel above construction Wetland 43 100' below s/d two cell pond				
1820	-	-	-	no site runoff flows from active work area, no sample taken
1820	-	-	-	no site runoff flows from active work area, no sample taken
discharge: pipe outlet to N. pond on W. side of SR 509 discharge: shallow ditch from S. running to N. pond				
Wetland 44a in concentrated channel above construction				
1 pond near S. 169th Av Wetland Phase 3 Construction and Stockpile Area discharge: in CB @ Lowe Blvd 12th Av S.				
1854	-	-	-	no site runoff flows from active work area, no sample taken
ditch parallel to 12th Ave S. ditch parallel to 12th Ave S.				
1856	-	-	-	not pumping. No water from pond F in ditch
discharge: treatment outfall (see note 1 end of last page)				
Wetland 44a, unaffected area Wetland 44a outlet, E. side of SR 509				

Notes:  
 treating (or not pumping), no measurement required If pumping w/ no treatment, measure @ catchbasin in grass about 100' W. of intersection of 12 Ave S. and 173 Ct.  
 upstream of site discharge to receiving waters  
 downstream of site discharge to receiving waters  
 site discharge to receiving waters  
 north, S = south, E = east, W = west  
 catch basin, MH = manhole, -- = no entry

AR 031464

STIA CONSTRUCTION SITE STORMWATER MONITORING  
 November Summary for Walker Ck Watershed Projects (no active workaltes Impact Gilliam Ck this storm event)

Samplers: R. Strimpong, S. Currie  
 Date: 11/13/01 & 11/14/01

Rainfall (depth@date@time): 0.50" @ 11/13/01, 1.700  
 Rainfall (depth@date@time): 0.65" @ 11/13/01, 1.828  
 Rainfall (depth@date@time): 0.95" @ 11/13/01, 2.140  
 Rainfall (depth@date@time): 1.19" @ 11/14/01, 2.420  
 Rainfall (depth@date@time): 1.78" @ 11/14/01, 0.455

Time	Turb	pH	Sheet?	Comments
0248	-	-	-	Pond 1/2 full, no water running through berm
<b>Starting Rd Shaping Area</b>				
site discharge: retaining pond				
u/s: N/AP				
d/s: ditch running W below plugged culvert through berm				
<b>SR 509/S, 176th &amp; C Temp. Interchange</b>				
0430	48	6.87	no	8' outfall pipe running about 80% full.
site discharge: 8' outfall below two cell pond W. of SR509				
0440	52	7.01	no	muddy seep
u/s: Wetland 44a in concentrated channel above construction				
0435	38	6.91	no	banks full
d/s: Wetland 43 100' below rd two cell pond				
0400	-	-	-	No access. Gate locked w/ AP-2 key.
site discharge: pipe outlet to N. pond on W. side of SR 509				
0400	-	-	-	No access. Gate locked w/ AP-2 key.
site discharge: shallow ditch from S. running to N. pond				
u/s: Wetland 44a in concentrated channel above construction				
d/s: N. pond near S. 168th Av.				
<b>Embankment Phase 3 Construction and Stockpile Area</b>				
0445	-	-	-	Flow < 0.1 gps
site discharge: In CB @ Lowe Blvd/12th Av S.				
u/s: ditch parallel to 12th Ave S.				
d/s: ditch parallel to 12th Ave S.				
0448	-	-	-	Treatment facility not pumping, but about 2-3 gps in open elbow.
site discharge: treatment outfall (see note 1 end of last page)				
u/s: Wetland 44a, unaffected area				
d/s: Wetland 44a outlet, E. side of SR 509				

AR 031465

Samplers: R. Simmons, K. Ludwa  
 Date: 11/19/01

24 Hr. Rainfall (depth@date@time): 0.54" @ 11/19/01, 1156  
 24 Hr. Rainfall (depth@date@time): 0.66" @ 11/19/01, 1517  
 24 Hr. Rainfall (depth@date@time): 0.78" @ 11/19/01, 1840

Starting Rd Sluicing Area	Time	Turb	pH	Sheet?	Comments
site discharge: two retaining ponds	1720	-	-	-	Pond about 1/2 full. No discharge through berm to ditch turning west
u/s: N/Ap					
d/s: ditch running W below plugged culvert through berm					
<b>Embankment Phase 3 Construction and Stockpile Area</b>					
site discharge: in CB @ Lowe Blvd 12th Av S.	1850	-	-	-	Flow < 0.1 gps
u/s: ditch parallel to 12th Ave S.					
d/s: ditch parallel to 12th Ave S.					
site discharge: treatment outfall (see note 1 end of last page)	1855	-	-	-	Not pumping
u/s: Wetland 44a, unaffected area					
d/s: Wetland 44a outlet, E. side of SR 509					

AR 031466

ECY00000022567

Sampler: R Simmons, S Currie  
 Date: 11/23/01

24 Hr. Rainfall (depth@date/time): 1.19" @ 11/22/01, 1930  
 24 Hr. Rainfall (depth@date/time): 0.71" @ 11/23/01, 0745  
 24 Hr. Rainfall (depth@date/time): 0.55" @ 11/23/01, 0945

Time	Turb	pH	Sheet?	Comments
1057	-	-	-	No flow through berm, but detention pond is very full.
<b>1/8th St. Neal Segment W/S 12th Av</b>				
<b>Embarkment Phase 3 Construction and Stockpile Area</b>				
1141	-	-	-	No flow
<b>site discharge: in CB @ Lowe Blvd 12th Av S</b>				
u/s: ditch parallel to 12th Ave S				
d/s: ditch parallel to 12th Ave S				
site discharge: treatment outfall (see note 1 end of last page)				
1140	-	-	-	Not pumping. Flow about 1/2 gpc in open elbow.
u/s: Wetland 44a, unaffected area				
d/s: Wetland 44a outlet, E side of SR 509				

AR 031467

ECY00000022568

Samplers: R Simmons, J Brandt  
Date: 11/28/01

24 Hr. Rainfall (depth@datetime):  
24 Hr. Rainfall (depth@datetime):

0.56" @ 11/28/01 / about 1030  
0.76" @ 11/28/01 / 2327

Starting Rd Staging Area	Time	Turb	pH	Sheet?	Comments
site discharge: Retaining pond	2207	-	-	-	Pond full, but no flow through berm.
u/s: N/A					
d/s: where ditch running W discharges to ditch on S. side of S.					
176th St near SMDR w/S 12th Av					
<b>Embankment Phase 3 Construction and Stockpile Area</b>	<b>Time</b>	<b>Turb</b>	<b>pH</b>	<b>Sheet?</b>	<b>Comments</b>
site discharge: in CB @ Lowe Blvd 12th Av S	2337	-	-	-	Flow < 0.1 gpc
u/s: ditch parallel to 12th Ave S					
d/s: ditch parallel to 12th Ave S					
site discharge: treatment outfall (see note 1 end of last page)	2338	-	-	-	No water in elbow, treatment facility not pumping.
u/s: Wetland 44a, unaffected area					
d/s: Wetland 44a outlet, E side of SR 509					

Notes:  
(2) if treating (or not pumping), no measurement required. If pumping w/ no treatment, measure @ catchbasin in grass about 100' W. of intersection of 12th Ave S. and 173 Ct.

u/s = upstream of site discharge to receiving waters  
d/s = downstream of site discharge to receiving waters  
s/d = site discharge to receiving waters

N. = north, S. = south, E. = east, W. = west  
CB = catch basin  
MH = manhole  
- = no entry