Table 1
King County International Airport - Stormwater Vault Sediment Results - Dry Weight Values

	1641 KCIA L39363-1	1640 KCIA L39363-2	1650 KCIA L39363-3	1657 KCIA L39363-4	1670[a] KCIA L39363-5	1680 KCIA L39363-6	1680(FD) KCIA L39361-10	1756 KCIA L39363-7	1757[b] KCIA L39363-8	1757[c] KCIA L39396-1
Date Sampled	6/8/2006	6/7/2006	6/7/2006	6/7/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006
TOC (percent)	8.65	7.2	6.98	3.98	6.27	6.59	-	5.27	8.27	0.45
Metals (mg/kg DW)										
As	**9.4**	**23**	**34.4**	**14**	**9.3**	**29.3**	-	**12**	**16**	4 U
Cu	**1,550**	**233**	**567**	**204**	**227**	**284**	-	**286**	**301**	**31**
Pb	**190**	**463**	**744**	**263**	**396**	**420**	-	**237**	**385**	**10**
Hg	**0.13**	**0.21**	**0.24**	**0.20**	**0.30**	**0.24**	-	**0.54**	**0.24**	0.04 U
Zn	**1,880**	**1,250**	**1,810**	**1,620**	**574**	**1,240**	-	**1,580**	**813**	**40**
LPAH (µg/kg DW)										
Acenaphthene	820 U	1,100 U	1,600 U	870 U	**1,000**	1,500 U	-	1,600 U	1,300 U	49 U
Acenaphthylene	1,800 U	2,300 U	3,500 U	1,900 U	1,300 U	3,300 U	-	3,500 U	2,800 U	100 U
Anthracene	470 U	**1,200**	**990**	**840**	**4,170**	**1,910**	-	**4,390**	**6,360**	**63**
Fluorene	1,500 U	2,000 U	3,000 U	1,600 U	**1,700**	2,900 U	-	3,000 U	2,400 U	90 U
2-Methylnaphthalene	1,600 U	2,200 U	3,300 U	1,700 U	1,200 U	3,100 U	-	3,300 U	2,600 U	97 U
Naphthalene	1,600 U	2,200 U	3,300 U	1,700 U	1,200 U	3,100 U	-	3,300 U	2,600 U	97 U
Phenanthrene	**3,260**	**13,700**	**6,980**	**6,580**	**20,900**	**19,100**	-	**33,700**	**47,200**	**703**
Total LPAH	**3,260**	**14,900**	**7,970**	**7,420**	**27,770**	**21,010**	-	**38,090**	**53,560**	**766**
HPAH (µg/kg DW)										
Benzo(a)anthracene	**2,230**	**7,160**	**4,530**	**3,730**	**19,600**	**11,600**	-	**30,800**	**35,500**	**495**
Benzo(a)pyrene	**2,770**	**11,500**	**7,150**	**6,240**	**26,100**	**19,000**	-	**42,600**	**50,000**	**741**
Benzo(b)fluoranthene	**4,520**	**20,500**	**10,000**	**10,400**	**40,700**	**30,500**	-	**77,800**	**83,200**	**1,310**
Benzo(k)fluoranthene	**3,280**	**13,900**	**10,600**	**9,910**	**26,700**	**30,400**	-	**58,200**	**58,900**	**861**
Benzo(g,h,i)perylene	**3,140**	**11,900**	**7,270**	**6,610**	**25,000**	**20,300**	-	**42,600**	**44,800**	**736**
Chrysene	**4,690**	**18,900**	**10,800**	**9,970**	**32,200**	**31,300**	-	**67,300**	**70,100**	**1,010**
Dibenzo(a,h)anthracene	820 U	**3,100**	**2,300**	**1,600**	**7,480**	**4,050**	-	**10,400**	**12,900**	**184**
Fluoranthene	**7,420**	**33,600**	**18,000**	**17,100**	**52,500**	**53,300**	-	**106,000**	**132,000**	**1,910**
Indeno(1,2,3-cd)pyrene	**2,570**	**10,300**	**6,570**	**5,810**	**23,300**	**18,200**	-	**40,200**	**42,500**	**684**
Pyrene	**6,770**	**26,000**	**14,100**	**12,800**	**44,500**	**38,500**	-	**76,600**	**100,000**	**1,450**
Total HPAH	**37,390**	**156,860**	**91,320**	**84,170**	**298,080**	**257,150**	-	**552,500**	**629,900**	**9,381**
Phthalates (µg/kg DW)										
Bis(2-ethylhexyl)phthalate	**53,100**	**73,200**	**31,600**	**29,400**	**39,000**	**64,300**	-	**56,900**	**232,000**	**63,900**
Butylbenzylphthalate	700 U	**2,040**	**3,130**	**1,490**	**2,610**	**3,040**	-	**3,510**	**4,090**	**115**
Diethylphthalate	700 U	930 U	1,400 U	750 U	510 U	1,300 U	-	1,400 U	1,100 U	42 U
Dimethylphthalate	1,300 U	1,700 U	2,600 U	1,400 U	930 U	2,400 U	-	2,600 U	2,100 U	76 U
Di-n-butylphthalate	590 U	780 U	**3,150**	**710**	420 U	**2,810**	-	1,200 U	930 U	35 U
Di-n-octylphthalate	940 U	1,200 U	1,900 U	990 U	680 U	1,800 U	-	1,900 U	1,500 U	**110**
PCBs (µg/kg DW)										
Aroclor 1016	40 U	51 U	73 U	40 U	31 U	71 U	70 U	80 U	60 U	22 U
Aroclor 1221	40 U	51 U	73 U	40 U	31 U	71 U	70 U	80 U	60 U	22 U
Aroclor 1232	40 U	51 U	73 U	40 U	31 U	71 U	70 U	80 U	60 U	22 U
Aroclor 1242	40 U	51 U	73 U	40 U	31 U	71 U	70 U	80 U	60 U	22 U
Aroclor 1248	40 U	51 U	**248**	**71**	31 U	**725**	**795**	80 U	**97**	22 U
Aroclor 1254	40 U	**152**	**203**	**75**	**115**	**1,040**	**1,150**	**274**	**328**	22 U
Aroclor 1260	40 U	**100**	**266**	**97**	**172**	**157**	**163**	**265**	**332**	22 U
Total PCBs	ND	**252**	**717**	**243**	**287**	**1,922**	**2,108**	**539**	**757**	ND
TPH (mg/kg)										
Diesel	**11,000**	**16,000**	ND	**940**	**2,000**	**2,100**	-	**8,100**	**6,300**	**1,600**
Motor Oil	**81,000**	**8,800**	**10,000**	**3,500**	**8,500**	**8,200**	-	**25,000**	**13,000**	ND

Notes:

Detected values shown in **bold**.
Except where noted, all samples collected from final (outflow) chamber of vault.
(a) = Sample collected from first (inflow) chamber of a two-chamber vault. Insufficient sediment in second (outflow) chamber.
(b) = Sample collected from the middle chamber of vault. Sediment sample appeared normal.
(c) = Sample collected from the last (outflow) chamber of vault. Sediment sample appeared to be a greyish-colored slurry.
DW = Dry weight
FD = Field duplicate
ND = Not detected
U = Chemical not detected at reported concentration.

Table 2
King County International Airport - Stormwater Vault Sediment Results - Comparison to Sediment Management Standards

	SQS	CSL	1541 KCIA L39363-1	1640 KCIA L39363-2	1650 KCIA L39363-3	1657 KCIA L39363-4	1670[a] KCIA L39363-5	1680 KCIA L39363-6	1756 KCIA L39363-7	1757[b] KCIA L39363-8	1757[c] KCIA L39396-1
Date Sampled			6/8/2006	6/7/2006	6/7/2006	6/7/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006
TOC (percent)			8.65	7.2	6.98	3.98	6.27	6.59	5.27	8.27	0.45
Metals (mg/kg DW)											
As	57	93	**9.4**	**23**	**34.4**	**14**	**9.3**	**29.3**	**12**	**16**	4 U
Cu	390	390	**1,550**	**233**	**567**	**204**	**227**	**284**	**286**	**301**	**31**
Pb	450	530	**190**	**463**	**744**	**263**	**396**	**420**	**237**	**385**	**10**
Hg	0.41	0.59	**0.13**	**0.21**	**0.24**	**0.20**	**0.30**	**0.24**	**0.54**	**0.24**	0.04 U
Zn	410	960	**1,880**	**1,250**	**1,810**	**1,620**	**574**	**1,240**	**1,580**	**813**	**40**
LPAH (mg/kg OC)											
Acenaphthene	16	57	9 U	15 U	23 U	22 U	**16**	23 U	30 U	16 U	11 U
Acenaphthylene	66	66	21 U	32 U	50 U	48 U	21 U	50 U	66 U	34 U	22 U
Anthracene	220	1,200	5 U	**17**	**14**	**21**	**67**	**29**	**83**	**77**	**14**
Fluorene	23	79	17 U	28 U	43 U	40 U	**27**	44 U	57 U	29 U	20 U
2-Methylnaphthalene	38	64	18 U	31 U	47 U	43 U	19 U	47 U	63 U	31 U	22 U
Naphthalene	99	170	18 U	31 U	47 U	43 U	19 U	47 U	63 U	31 U	22 U
Phenanthrene	100	480	**38**	**190**	**100**	**165**	**333**	**290**	**639**	**571**	**156**
Total LPAH	370	780	**38**	**207**	**114**	**186**	**443**	**319**	**723**	**648**	**170**
HPAH (mg/kg OC)											
Benzo(a)anthracene	110	270	**26**	**99**	**65**	**94**	**313**	**176**	**584**	**429**	**110**
Benzo(a)pyrene	99	210	**32**	**160**	**102**	**157**	**416**	**288**	**808**	**605**	**164**
Benzo(b)fluoranthene[d]	230	450	**52**	**285**	**143**	**261**	**649**	**463**	**1,476**	**1,006**	**290**
Benzo(k)fluoranthene	-	-	**38**	**193**	**152**	**249**	**426**	**461**	**1,104**	**712**	**191**
Benzo(g,h,i)perylene	31	78	**36**	**165**	**104**	**166**	**399**	**308**	**808**	**542**	**163**
Chrysene	110	460	**54**	**263**	**155**	**251**	**514**	**475**	**1,277**	**848**	**224**
Dibenzo(a,h)anthracene	12	33	9 U	**43**	**33**	**40**	**119**	**61**	**197**	**156**	**41**
Fluoranthene	160	1,200	**86**	**467**	**258**	**430**	**837**	**809**	**2,011**	**1,596**	**424**
Indeno(1,2,3-cd)pyrene	34	88	**30**	**143**	**94**	**146**	**372**	**276**	**763**	**514**	**152**
Pyrene	1,000	1,400	**78**	**361**	**202**	**322**	**710**	**584**	**1,454**	**1,209**	**322**
Total HPAH	960	5,300	**432**	**2,179**	**1,308**	**2,115**	**4,754**	**3,902**	**10,484**	**7,617**	**2,080**
Phthalates (mg/kg OC)											
Bis(2-ethylhexyl)phthalate	47	78	**614**	**1,017**	**453**	**739**	**622**	**976**	**1,080**	**2,805**	**14,169**
Butylbenzylphthalate	4.9	64	8 U	**28**	**45**	**37**	**42**	**46**	**67**	**49**	**25**
Diethylphthalate	61	110	8 U	13 U	20 U	19 U	8 U	20 U	27 U	13 U	9 U
Dimethylphthalate	53	53	15 U	24 U	37 U	35 U	15 U	36 U	49 U	25 U	17 U
Di-n-butylphthalate	220	1,700	7 U	11 U	**45**	**18**	7 U	**43**	23 U	11 U	8 U
Di-n-octylphthalate	58	4,500	11 U	17 U	27 U	25 U	11 U	27 U	36 U	18 U	**24**
PCBs (mg/kg OC)											
Aroclor 1016	-	-	0.5 U	0.7 U	1.0 U	1.0 U	0.5 U	1.1 U	1.5 U	0.7 U	4.9 U
Aroclor 1221	-	-	0.5 U	0.7 U	1.0 U	1.0 U	0.5 U	1.1 U	1.5 U	0.7 U	4.9 U
Aroclor 1232	-	-	0.5 U	0.7 U	1.0 U	1.0 U	0.5 U	1.1 U	1.5 U	0.7 U	4.9 U
Aroclor 1242	-	-	0.5 U	0.7 U	1.0 U	1.0 U	0.5 U	1.1 U	1.5 U	0.7 U	4.9 U
Aroclor 1248	-	-	0.5 U	0.7 U	**3.6**	**1.8**	0.5 U	**11.0**	1.5 U	**1.2**	4.9 U
Aroclor 1254	-	-	0.5 U	**2.1**	**2.9**	**1.9**	**1.8**	**15.8**	**5.2**	**4.0**	4.9 U
Aroclor 1260	-	-	0.5 U	**1.4**	**3.8**	**2.4**	**2.7**	**2.4**	**5.0**	**4.0**	4.9 U
Total PCBs	12	65	ND	**3.5**	**10.3**	**6.1**	**4.6**	**29.2**	**10.2**	**9.2**	ND
TPH (mg/kg)	***MTCA A***										
Diesel		2,000	**11,000**	**16,000**	ND	**940**	**2,000**	**2,100**	**8,100**	**6,300**	**1,600**
Motor Oil		2,000	**81,000**	**8,800**	**10,000**	**3,500**	**8,500**	**8,200**	**25,000**	**13,000**	ND

Notes: Detected values shown in **bold**.
Except where noted, all samples collected from final (outflow) chamber of vault.
(a) = Sample collected from first (inflow) chamber of a two-chamber vault. Insufficient sediment in second (outflow) chamber.
(b) = Sample collected from the middle chamber of vault. Sediment sample appeared normal.
(c) = Sample collected from the last (outflow) chamber of vault. Sediment sample appeared to be a greyish-colored slurry.
(d) = Standard based on total benzofluoranthenes
DW = Dry weight
FD = Field duplicate
ND = Not detected
OC = Organic carbon
U = Chemical not detected at reported concentration.
= Exceeds Sediment Quality Standards (SQS).
= Exceeds Cleanup Screening Levels (CSL) or MTCA Method A soil cleanup level for industrial use.

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