

STIA CONSTRUCTION SITE STORMWATER MONITORING

Date: 10/16/00
 Rainfall (depth@date/time): 0.51" @ 10/16/00 - 1800
 Samplers: JL, RS

SITE	Time	Turb	pH	Comments
Logistics Site Development				
site discharge: unnamed catch basin d/s of treatment facility	2026	182.7	9.57	
u/s: Tye pond (south end)		13.2	7.24	
d/s: Tye Pond outfall to Des Moines Ck		18.4	7.22	
IWS Lagoon 3 Construction				
site discharge: treatment facility** (see notes end of last page)	2045	--	--	not pumping. 5+ ft of freeboard on holding pond
u/s: SDS3-594		--	--	
d/s: SDS-3 outfall weir		--	--	
Airfield Improvement				
site discharge: ditch west of construction staging area	2100	174.8	7.43	flow est. @ < or = 1 gps
u/s: ditch parallel to SR 509 onramp		--	--	ditch parallel to SR 509 onramp is dry
d/s: ditch parallel to SR 509 onramp		--	--	ditch parallel to SR 509 onramp is dry
site discharge: SDS-7 outfall	2115	3.2	7.72	
site discharge: SDS-6 outfall	2121	15.8	7.62	
site discharge: SDS3-594	2200	62.1	8.56	difficult to hold sampler in correct outfall
u/s: none		--	--	
d/s: Northwest Ponds outlet		--	--	failed to collect sample here.

AR 026465

Exh. 7

STIA CONSTRUCTION SITE STORMWATER MONITORING

Date: 10/20/00 Rainfall (depth@date/time): 0.72" @10/20/00 - 0550

Samplers: JB, RS

SITE	Time	Turb	pH	Comments
Dobbs Flight Kitchen Remodel				
site discharge: manhole SDE4-611	0810	--	--	no active construction no disturbed soil
for west side construction:				
u/s: SDE4-607		--	--	
d/s: SDE4-615		--	--	
for east side construction:				
u/s: SDE4-601 or SDE4-602		--	--	
d/s: SDE4-615		--	--	
Booster Pump Station				
site discharge: SDE4-911	0843	11.6	6.71	
u/s: SDE4-911		--	--	
d/s: SDE4-918		--	--	
Air Traffic Control Tower				
site discharge: SDE4-948 *(if no access, see notes end of last page)	0903	578*	10.83	*cut sample 50% w/ DI water twice. multiplied value by 4 to get this result.
u/s: SDE4-948 from N. outfall in vault	0913	50.6	8.40	d/s - u/s > 5 NTU
d/s: SDE4-958	0915	176.2	10.31	notified KL and DJ

STIA CONSTRUCTION SITE STORMWATER MONITORING
Date: 10/20/00 Rainfall (depth@date/time): 0.72" @10/20/00 - 0550
Samplers: JB, RS

SITE	Time	Turb	pH	Comments
Feeder 104/204 Replacement				
site discharge: catchbasin in grass ~10' fm International Blvd curb	0930	--	--	no construction activity
u/s: catchbasin at International Blvd curb due east of site discharge		--	--	
d/s: catchbasin at International Blvd curb due south of u/s location		--	--	
South Terminal Expansion Project, North Ductbank				
site discharge: (A), SDE4-118		--	--	covered by heavy steel plates
site discharge: (B), outfall of culvert under sidewalk, west of Entry Drive near flag pavilion		--	--	no flow
site discharge: (C), SDE4-121		--	--	no flow
site discharge: SDE4-111	1000	49.3	7.99	
u/s: SDE4-059	1003	31.5	8.02	d/s - u/s > 5 NTU. Notified KL
d/s: SDE4-064	1017	61.6	7.58	
South Terminal Expansion Project				
site discharge: SDE4-065B	1030	--	--	no discharge
site discharge: unnamed manhole on 24th Ave north of S. 188 St.	1045	104.6	11.09	
u/s: SDE4-059	1003	31.5	8.02	u/s - d/s > 5 NTU. Notified KL
d/s: SDE4-074	1054	16.3	8.31	

STIA CONSTRUCTION SITE STORMWATER MONITORING

Date: 11/8/00

Rainfall (depth@date - time): 0.61" @ 11/8/00, 0600

Samplers: R. Simmons, S. Currie

Feeder 104/204 Replacement	Time	Turb	pH	Comments
site discharge: catchbasin in grass, ~10' fm International Blvd curb	0945	-	-	No construction
u/s: catchbasin at International Blvd curb due east of site discharge		-	-	
d/s: catchbasin at International Blve curb due south of u/s location		-	-	
South Terminal Expansion Project, North Ductbank				
site discharge: (A), SDE4-118	1010	1040.0	8.80	3 dilutions (8x130 NTU). Low flow, <1 gps.
site discharge: (B), outfall of culvert under sidewalk, west of Entry Drive near flag pavilion	1015	-	-	No flow. Hillside stabilized with hydro seeded grass
site discharge: (C), SDE4-121	1020	-	-	No flow into vault here
site discharge: SDE4-111	1030	44.4	6.69	
u/s: SDE4-059	1050	62.0	8.20	
d/s: SDE4-064	1040	74.0	6.80	lots of flow.
South Terminal Expansion Project				
site discharge: SDE4-065B	1103	62.1	7.21	flow surges small dollop of water every 20 sec.
site discharge: unnamed manhole on 24th Ave north of S. 188 St.	1110	-	-	low flow, <0.1 gps
u/s: SDE4-059	1050	62.0	8.20	
d/s: SDE4-074	1120	10.8	6.29	

K:\working\28125528120135\mon\k\constrn_monitoring_data_00-01.xls

STIA CONSTRUCTION SITE STORMWATER MONITORING

Samplers: K. Ludwa, J. Brandt

Date: 6/28/01

Rainfall (depth@date/time): 0.51 @ 2308, 6/27/01

Rainfall (depth@date/time): 0.52 @ 0500, 6/28/01

Time	Turb	pH	Sheen? (Yes/No)	Comments
(18) Third Runway Embankment Phase 4				
0955	-	-	-	Pond not constructed yet - Discharge being collected and pumped to S. 157th PL detention pond
S. 160th St. Detention Ponds site discharge: observe where runoff in pond construction enters Miller Ck.				
u/s: Miller Ck above point where runoff enters				
d/s: Miller Ck below point where runoff enters				
• THIS POND BEST DONE AFTER #15				
1000	-	-	-	No discharge.
S. 157th Pl. Detention Pond site discharge: observe where runoff in pond construction enters Miller Ck.				
u/s: Miller Ck above point where runoff enters				
d/s: Miller Ck below point where runoff enters				
(19) North Safety Fill Construction				
1020	-	-	-	No discharge.
site discharge: diffuser pipe from settling pond				
u/s: Miller Ck. at culvert under road				
d/s: Miller Ck. at dam structure				
(20) Third Runway Embankment Phase 3				
1015	-	-	-	No discharge.
site discharge: outfall in catchbasin vault on S. 156th Way near Miller Ck.				
u/s: Miller Ck. north of S. 156 Way				
d/s: Miller Ck. south of S. 156 Way				
(21) SR 809/S. 176th St. Temp. Interchange				
0850	128	6.71	no	
site discharge: two cell pond W. of SR509 below Walker Ck. outfall under SR509				
0755	9	6.9	no	Same as u/s for Emb. Ph 3 const. & Stockpile
0850	33	6.7	no	
u/s: Wetland 44a in concentrated channel above const.				
d/s: Wetland 43 100' below s/d two cell pond				
0850	203	7.06	no	No discharge.
site discharge: pond W. of SR509 S. of S. 168th St				
u/s: Wetland 44a in concentrated channel above const.				
d/s: Wetland 43 100' below s/d pond nr S. 168th St.				
(22) Logistics Site (golf course)				
1250	-	-	no	Not enough flow to sample.
site discharge: golf course catchbasin				
u/s: Type pond (south end)				
d/s: Type Pond outfall to Des Moines Ck				

Notes:

- (1) If no access do s/d @ SDE4-958, u/s @ SDE4-930 (or SDE4-925), d/s @ SDE4-958
- (2) If treating (or not pumping), no measurement required. If pumping w/ no treatment, measure @ spigot on ground line between settling tanks and holding pond.
- (3) 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 and 173 Ct.

Feb 11

STIA CONSTRUCTION SITE STORMWATER MONITORING

Date: 11/26/00
 Samplers: R. Simmons, S. Currie
 Rainfall (depth@date - time): 0.52" @ 11/26/00, 1145
 Rainfall (depth@date - time): 0.72" @ 11/26/00, 1345
 Rainfall (depth@date - time): 0.84" @ 11/26/00, 1730

	Time	Turb	pH	Comments
Dobbs Filght Kitchen Remodel site discharge: manhole SDE4-611	1320	-	-	No construction @ Dobbs. Construction on east side of the HMS - Host Distribution Center.
for west side construction:				
u/s: SDE4-607		-	-	
d/s: SDE4-615		-	-	
for east side construction:				
u/s: SDE4-601 or SDE4-602		-	-	
d/s: SDE4-615		-	-	
Booster Pump Station site discharge: SDE4-911	1345	22.2	5.71	
u/s: SDE4-911		-	-	
d/s: SDE4-918		-	-	
Air Traffic Control Tower site discharge: SDE4-948 * (if no access, see notes end of last page)	1400	-	-	No access to site so -
u/s: SDE4-948 from N. outfall in vault	1410	36.0	6.06	sample taken at SDE4-930, (Manhole lid marked w/ "SEWER")
d/s: SDE4-958	1425	45.0	6.28	flow about 3-5 gps

STIA CONSTRUCTION SITE STORMWATER MONITORING

Samplers: R. Simmons, S. Currie
 Date: 9/26/01
 Rainfall (depth@date/time): 0.50" @ 9/26/01, 1110
 Rainfall (depth@date/time): 0.51" @ 9/26/01, 1254
 Rainfall (depth@date/time): 0.43" @ 9/26/01, 1500

Time	Turb	pH	Sheen? (Yes/No)	Comments
1240	-	-	-	Grass lawn and landscaping. No runoff in contact with open work area
Booster Pump Station				
site discharge: SDE4-911				
w/s: SDE4-911				
d/s: SDE4-918				
Air Traffic Control Tower				
Time	Turb	pH	Sheen? (Yes/No)	Comments
1300	65.5	6.27	no	very low flow
site discharge: SDE4-948 (if no access, see note (1) at end of the last page)				
w/s: SDE4-948 from N. outfall in vault				
1300	27.5	6.06	no	
1310	28.0	6.33	no	
Roadway Lighting Upgrades				
Time	Turb	pH	Sheen? (Yes/No)	Comments
1318	-	-	-	No runoff in contact with open work area. Noted that exposed soil around manhole 34 was poorly covered with straw and manhole 22 was poorly covered with windblown tarp.
w/s:				
d/s:				
Feeder 104/204 Replacement				
Time	Turb	pH	Sheen? (Yes/No)	Comments
1321	-	-	-	No exposed soil or work activity.
site discharge: catchbasin in grass ~10' fm International Blvd curb				
w/s: catchbasin at International Blvd curb due east of site discharge				
d/s: catchbasin at International Blvd curb due south of s/d location				
Roads and Bridges Upgrades				
Time	Turb	pH	Sheen? (Yes/No)	Comments
1340	23.8	7.48	no	Low flow.
1345	16.4	7.65	no	Low flow.
site discharge: SDE4-282				
site discharge: SDE4-059				
w/s: SDE4-996				
d/s: SDE4-064				
South Terminal Expansion Project				
Time	Turb	pH	Sheen? (Yes/No)	Comments
1335	-	-	-	Dry.
1334	-	-	-	Dry.
1333	-	-	-	Dry.
1330	394	8.17	no	Very low flow. 2X dilution (98.5) x 4 = 394. Left msg for D. Jenkins.
w/s: SDE4-059				
1345	16.4	7.65	no	Low flow.
1410	33.6	7.26	no	Moderate flow.
d/s: SDE4-064				
E. site discharge: SDE4-065B				
Time	Turb	pH	Sheen? (Yes/No)	Comments
1535	172	7.76	no	Covered by tarp/sandbags from construction (2001 Airfield Improvement - 17) Very low flow.
F. site discharge: unnamed manhole on 24th Ave				
Time	Turb	pH	Sheen? (Yes/No)	Comments
1345	16.4	7.65	no	Low flow
1548	31	7.32	no	Moderate flow.

Eqh
13