

EXHIBIT E

THERMAL PLUME SURVEYS ON THE CHICAGO SANITARY AND SHIP CANAL NEAR WILL COUNTY STATION JUNE-SEPTEMBER 2002

Part 4 of 4

Table C-3a
 Vertical Temperature Profiles at Will County Station, 24 July 2002

Depth (ft)	UPSTR-1/4 1419	UPSTR-1/2 1422	UPSTR-3/4 1424	W-250-1/4 1407	W-250-1/2 1410	W-250-3/4 1413
0.25	83.4	83.3	83.3	86.5	86.9	88.0
1	83.4	83.4	83.4	86.6	86.9	88.3
2	83.4	83.4	83.4	86.8	87.0	88.7
3	83.4	83.4	83.4	86.6	87.0	88.7
4	83.4	83.4	83.4	86.7	86.9	88.6
5	83.4	83.4	83.4	86.6	86.9	88.5
6	83.4	83.4	83.4	86.2	86.9	88.4
7	83.4	83.4	83.4	85.9	86.8	88.1
8	83.4	83.4	83.4	85.6	86.7	87.8
9	83.4	83.4	83.4	85.6	86.5	87.5
10	83.4	83.4	83.4	85.3	86.3	87.3
11	83.4	83.4	83.4	85.1	86.2	87.1
12	83.4	83.4	83.4	84.7	86.2	87.0
13	83.4	83.4	83.4	84.7	86.0	86.9
14	83.4	83.4	83.4	84.6	85.8	86.6
15	83.4	83.4	83.4	84.8	85.4	86.5
16	83.4	83.4	83.4	84.3	84.6	86.4
17	83.4	83.4	83.4	84.4	84.1	86.1
18	83.4	83.4	83.4	84.1	83.8	85.9
19	83.4	83.3	83.3	84.2	83.7	85.5
20	83.4	83.3	83.3	84.0	83.6	85.3
21	83.4	83.3	83.3	84.0	83.6	85.2
22	83.4	83.3	83.3	84.0	83.6	84.9
23	83.4	83.4	83.3	83.9	83.6	85.1
24	83.4	83.3	83.3	83.8	83.5	85.5
25	83.4	83.3	83.3	83.9	83.5	85.5
26	83.4	83.3	83.3	83.9	83.5	86.0
27					83.5	87.1

Table C-3b
 Vertical Temperature Profiles at Will County Station, 24 July 2002

Depth (ft)	W0-1/5 1352	W0-2/5 1354	W0-3/5 1358	W0-4/5 1401
0.25	88.3	89.8	90.1	94.4
1	89.2	90.1	91.0	94.6
2	89.8	90.2	91.2	94.3
3	89.8	90.0	91.2	94.7
4	89.8	89.8	90.8	94.9
5	89.7	89.6	89.8	94.9
6	89.5	88.3	89.1	94.9
7	89.1	87.1	88.4	94.9
8	88.4	86.7	87.6	94.9
9	87.6	86.4	86.9	95.0
10	86.8	86.3	86.7	95.0
11	86.3	86.2	86.6	95.0
12	86.0	86.1	86.5	95.0
13	85.7	86.2	86.3	94.9
14	85.5	85.8	86.2	94.5
15	85.3	85.0	86.0	
16	85.3	84.2	85.7	
17	85.2	83.8	85.6	
18	84.9	83.7	85.5	
19	84.1	83.6	84.4	
20	83.7	83.6	83.9	
21	83.6	83.6	83.7	
22	83.6	83.5	83.7	
23	83.6	83.5	83.6	
24	83.6	83.5	83.6	
25	83.6	83.5	83.6	
26	83.6	83.5	83.6	
27		83.5	83.6	

Table C-3c
 Vertical Temperature Profiles at Will County Station, 24 July 2002

Depth (ft)	W180-1/4 1340	W180-1/2 1344	W180-3/4 1347	W525-1/4 1329	W525-1/2 1333	W525-3/4 1336
0.25	90.5	91.2	93.9	91.9	91.5	91.5
1	90.6	92.6	91.4	92.1	91.6	91.4
2	90.5	92.7	90.6	91.9	91.7	91.4
3	90.5	92.0	89.8	91.9	91.6	91.4
4	90.4	90.7	88.8	91.9	91.6	91.4
5	90.4	90.0	88.0	91.9	91.6	91.4
6	90.4	89.8	88.1	91.9	91.6	91.4
7	90.3	89.6	88.2	91.9	91.5	91.4
8	90.3	89.5	88.3	91.8	91.5	91.3
9	90.3	89.6	88.6	91.8	91.5	91.1
10	90.2	89.7	88.4	91.8	91.4	91.0
11	90.1	89.9	88.2	91.8	91.4	90.9
12	90.1	89.9	87.5	91.8	91.3	90.9
13	90.1	89.8	86.4	91.8	91.3	90.8
14	90.1	89.7	85.5	91.7	91.0	90.7
15	90.1	89.6	85.1	91.1	90.9	90.6
16	90.0	89.6	84.8	90.9	90.7	90.3
17	89.7	89.0	84.9	90.7	90.6	90.3
18	89.3	88.4	86.2	90.5	90.2	90.1
19	89.4	88.1	87.7	90.4	90.1	90.2
20	89.1	87.8	88.8	90.2	90.0	90.2
21	88.4	86.9	88.8	90.0	89.6	89.7
22	88.6	85.5	88.2	89.9	89.1	89.3
23	88.2	84.7	87.2	89.8	88.9	89.6
24	87.4	84.1	86.8	89.7	89.1	89.4
25	86.7	83.9	86.0	89.3	88.7	89.0
26	86.6	83.9	85.3	88.9	88.4	89.1
27			85.4	89.0	88.6	

Table C-3d
 Vertical Temperature Profiles at Will County Station, 24 July 2002

Depth (ft)	W1000-1/4 1316	W1000-1/2 1319	W1000-3/4 1322	W1500-1/4 13 7	W1500-1/2 1310	W1500-3/4 1313
0.25	90.5	91.2	90.8	90.8	90.7	89.6
1	91.3	91.4	90.8	90.6	90.4	89.6
2	91.6	91.4	90.6	90.6	90.3	89.6
3	91.6	91.3	90.6	90.7	90.2	89.5
4	91.5	91.3	90.5	90.6	90.2	89.5
5	91.2	91.2	90.3	90.6	90.2	89.5
6	90.9	91.1	90.3	90.4	90.2	89.5
7	90.7	90.9	90.2	90.1	90.2	89.5
8	90.5	90.9	90.1	89.8	90.2	89.4
9	90.3	90.7	90.1	89.7	90.3	89.5
10	90.2	90.6	90.0	89.6	90.4	89.4
11	90.1	90.4	90.0	89.6	90.4	89.4
12	89.9	90.3	90.0	89.5	90.4	89.4
13	89.8	90.3	90.0	89.4	90.4	89.4
14	89.4	90.1	89.9	89.0	90.4	89.4
15	89.2	89.9	89.8	88.4	90.4	89.4
16	89.0	89.6	89.7	87.8	90.2	89.4
17	89.0	89.4	89.7	87.6	89.6	89.3
18	88.9	89.2	89.7	87.4	89.1	89.2
19	88.8	89.0	89.6	87.3	89.0	89.1
20	88.7	88.9	89.3	87.2	89.1	88.9
21	88.5	88.5	89.1	86.9	88.8	88.9
22	88.3	88.1	88.7	86.7	88.4	88.8
23	88.2	87.7	88.3	86.5	88.2	88.8
24	88.1	87.4	88.0	86.4		
25	88.0	86.8	87.7	86.4		
26	87.7	86.1	87.0	86.4		
27				86.6		

Table C-3e
 Vertical Temperature Profiles at Will County Station, 24 July 2002

Depth (ft)	W2200-1/4 1257	W2200-1/2 1300	W2200-3/4 1304	W3000-1/4 1238	W3000-1/2 1241	W3000-3/4 1244
0.25	91.6	91.2	90.6	89.7	90.1	90.3
1	91.8	91.1	90.6	89.9	90.1	90.3
2	91.7	91.1	90.6	90.4	90.0	90.3
3	91.3	91.0	90.6	90.5	90.0	90.3
4	91.0	90.9	90.5	90.4	90.0	90.2
5	90.8	90.8	90.5	90.4	90.0	90.2
6	90.7	90.5	90.5	90.4	90.0	90.2
7	90.7	90.5	90.5	90.3	90.0	90.2
8	90.6	90.5	90.5	90.3	90.0	90.2
9	90.6	90.4	90.4	90.3	89.9	90.2
10	90.5	90.3	90.3	90.2	89.9	90.2
11	90.5	90.3	90.0	90.2	89.9	90.2
12	90.5	90.3	89.6	90.2	89.9	90.2
13	90.4	90.3	89.4	90.1	89.9	90.2
14	90.3	90.2	89.2	90.1	89.8	90.2
15	90.2	90.3	89.1	90.1	89.7	89.9
16	90.1	90.2	89.0	90.0	89.6	89.4
17	90.0	90.1	88.9	89.8	89.4	89.2
18	89.8	90.1	88.7	89.5	89.3	89.2
19	89.6	90.5	88.7	89.4	89.2	89.2
20	89.4	90.6	88.6	89.7	89.1	89.2
21	89.2	90.6	88.5	89.6	89.1	89.1
22	89.0	90.6	88.3	89.3	89.0	89.0
23	88.6	90.4	88.1	89.1	88.9	89.0
24	88.5	89.6	88.0	89.0	88.9	88.9
25		89.0	87.9	88.9	88.8	88.9
26		88.8	88.0	88.8	88.8	
27						

Table C-3f
 Vertical Temperature Profiles at Will County Station, 24 July 2002

Depth (ft)	W4000-1/4 1225	W4000-1/2 1227	W4000-3/4 1234	W5000-1/4 1215	W5000-1/2 1218	W5000-3/4 1221
0.25	90.6	90.5	90.2	90.3	89.6	90.1
1	90.7	90.8	90.2	90.3	90.1	90.2
2	90.7	90.7	90.2	90.3	90.2	90.3
3	90.7	90.6	90.2	90.3	90.3	90.2
4	90.5	90.5	90.1	90.2	90.2	90.2
5	90.4	90.6	90.0	90.3	90.2	90.1
6	90.4	90.4	90.0	90.2	90.1	90.1
7	90.3	90.4	90.0	90.2	90.0	90.1
8	90.3	90.3	90.0	90.1	89.9	90.1
9	90.2	90.2	90.0	90.0	89.9	90.1
10	90.2	90.2	90.0	90.0	89.8	90.1
11	90.2	90.2	90.1	90.1	89.8	90.1
12	90.2	90.2	90.1	90.1	89.8	90.1
13	90.2	90.1	90.0	90.0	89.8	90.1
14	90.2	90.0	90.0	90.0	89.7	90.1
15	90.1	90.0	90.0	90.0	89.7	90.0
16	90.1	89.9	89.9	90.0	89.7	90.0
17	90.1	89.8	89.8	90.1	89.7	90.0
18	90.0	89.8	89.7	90.1	89.6	
19	89.9	89.7	89.5	89.9	89.6	
20	89.8	89.6	89.4	89.8	89.6	
21	89.8	89.5	89.3	89.7	89.6	
22	89.7	89.5	89.2	89.7	89.6	
23	89.6	89.5	89.2	89.7	89.5	
24	89.6	89.6	89.2	89.8	89.6	
25	89.7	89.5	89.2	89.8	89.5	
26		89.6		89.6	89.5	
27					89.5	

Table C-4a
Vertical Temperature Profiles at Will County Station, 31 July 2002

Depth (ft)	UPSTR-1/2 1353	W-250-1/2 1346	W0-1/5 1336	W0-4/5 1341	W180-1/2 1331	W525-1/2 1324
0.25	84.5	89.9	89.5	95.2	91.7	91.3
1	83.7	89.8	89.6	95.3	91.5	91.2
2	83.6	89.9	89.5	95.0	91.5	91.1
3	83.4	89.9	89.6	95.3	91.6	91.0
4	83.3	89.9	89.6	95.3	91.2	91.0
5	83.4	89.7	89.7	95.3	90.8	90.8
6	83.7	89.1	89.7	95.2	90.6	90.8
7	83.7	88.8	89.7	95.0	90.3	90.8
8	83.6	88.5	89.7	95.2	90.0	90.8
9	83.1	88.3	89.6	95.2	89.9	90.8
10	82.9	88.1	89.6	94.6	90.0	90.7
11	82.9	87.8	89.6	94.4	90.1	90.7
12	82.8	87.5	89.6	94.5	90.0	90.5
13	82.8	86.3	89.6	94.4	89.5	90.4
14	82.9	86.1	89.6		89.4	90.4
15	82.9	85.6	89.5		88.8	90.4
16	82.9	85.6	89.5		88.3	90.3
17	82.9	85.4	89.4		88.4	90.1
18	82.9	84.6	89.4		88.4	89.7
19	82.9	85.7	89.3		87.9	89.1
20	82.9	85.7	89.2		85.1	89.0
21	82.8	85.0	88.9		83.7	88.5
22	82.9	84.6	88.6		84.7	88.0
23	82.8	84.7	88.5		86.9	87.5
24	82.8	84.9	88.4		86.1	87.3
25	82.9	84.7	88.5		83.9	87.1
26		84.0	88.2		84.4	

Table C-4b
Vertical Temperature Profiles at Will County Station, 31 July 2002

Depth (ft)	W1000-1/2 1257	W1500-1/2 1250	W2200-1/2 1245	W3000-1/2 1239	W4000-1/2 1232	W5000-1/2 1225
0.25	90.5	89.4	89.8	89.6	89.8	92.1
1	90.5	89.5	89.8	89.8	89.9	91.2
2	90.4	89.6	89.6	89.8	89.9	89.9
3	90.4	89.5	89.7	89.7	89.9	89.5
4	90.3	89.5	89.7	89.6	89.8	89.3
5	90.3	89.5	89.7	89.5	89.8	89.1
6	90.2	89.5	89.6	89.5	89.7	89.0
7	90.1	89.5	89.6	89.5	89.6	88.9
8	90.0	89.4	89.6	89.5	89.5	88.8
9	89.8	89.3	89.6	89.5	89.4	88.7
10	89.7	89.2	89.6	89.4	89.3	88.5
11	89.5	89.1	89.6	89.4	89.2	88.5
12	89.6	88.9	89.7	89.4	89.2	88.4
13	89.2	88.9	89.7	89.4	89.1	88.4
14	89.1	88.8	89.7	89.3	89.0	88.4
15	89.2	88.7	89.6	89.3	89.0	88.4
16	89.0	88.6	89.5	89.3	88.9	88.3
17	89.0	88.6	89.4	89.3	88.7	88.3
18	88.9	88.5	89.4	89.2	88.6	88.2
19	88.6	88.5	89.4	89.0	88.5	88.2
20	88.3	88.6	89.4	88.9	88.4	88.2
21	88.2	88.6	89.4	88.9	88.4	88.6
22	88.1	88.6	89.4	88.7	88.4	88.7
23	87.7		89.2	88.7	88.4	88.7
24	87.2		89.1	88.6	88.3	88.8
25	87.1		89.1	88.5	88.3	89.0
26	87.5		89.0	88.6		89.2
27						89.6

Table C-5a
 Vertical Temperature Profiles at Will County Station, 8 August 2002

Depth (ft)	UPSTR-1/4 1442	UPSTR-1/2 1444	UPSTR-3/4 1446	W-250-1/4 1418	W-250-1/2 1424	W-250-3/4 1426
0.25	81.0	81.0	81.3	83.9	83.5	82.8
1	80.9	80.9	80.9	83.1	82.3	82.4
2	80.8	80.8	80.8	82.6	81.9	82.3
3	80.8	80.8	80.8	82.2	81.9	82.2
4	80.8	80.8	80.8	82.5	81.9	82.1
5	80.7	80.8	80.8	82.5	82.0	82.0
6	80.7	80.9	80.8	82.9	82.0	82.0
7	80.8	80.8	80.8	82.8	81.9	81.9
8	80.8	80.8	80.8	82.6	81.7	82.0
9	80.8	80.8	80.8	82.3	81.6	82.0
10	80.8	80.8	80.8	82.3	81.6	81.9
11	80.8	80.8	80.8	82.2	81.7	81.8
12	80.8	80.8	80.8	82.3	81.6	81.8
13	80.8	80.8	80.8	82.4	81.6	81.7
14	80.8	80.8	80.8	82.3	81.6	81.7
15	80.8	80.9	80.8	82.2	81.6	81.7
16	80.8	80.9	80.8	82.0	81.7	81.5
17	80.8	80.8	80.8	82.0	81.7	81.4
18	80.7	80.8	80.8	81.9	81.6	81.4
19	80.7	80.8	80.8	82.2	81.6	81.4
20	80.7	80.8	80.8	81.9	81.6	81.3
21	80.7	80.8	80.8	82.1	81.6	81.2
22	80.7	80.8	80.8	81.9	81.5	81.1
23	80.7	80.8	80.8	82.1	81.5	81.0
24	80.7	80.8	80.8	82.2	81.5	81.0
25	80.7	80.8	80.8	82.0	81.5	80.9
26	80.7	80.8	80.8	82.0	81.6	81.0
27					81.6	

Table C-5b
 Vertical Temperature Profiles at Will County Station, 8 August 2002

Depth (ft)	W0-1/5 1355	W0-2/5 1359	W0-3/5 1404	W0-4/5 1415
0.25	87.5	86.6	88.9	91.2
1	87.7	87.3	88.4	92.7
2	87.7	87.3	87.1	92.9
3	87.6	87.4	86.6	92.9
4	87.3	87.4	86.5	92.9
5	87.0	87.3	86.0	92.6
6	86.5	87.1	85.6	92.8
7	86.1	86.5	85.3	92.6
8	85.4	85.7	85.0	92.7
9	84.7	85.2	84.7	92.8
10	84.2	85.1	84.5	92.9
11	83.8	85.0	84.3	92.9
12	83.6	84.7	83.3	92.8
13	83.3	84.7	82.2	92.7
14	83.2	84.3	81.7	
15	83.5	83.9	81.5	
16	83.5	83.3	81.4	
17	83.5	82.7	81.3	
18	83.5	81.8	81.2	
19	82.4	81.3	81.1	
20	81.6	81.1	81.1	
21	81.3	81.1	81.0	
22	81.1	81.0	81.0	
23	81.1	81.0	80.9	
24	81.0	80.9	80.9	
25	80.9	80.9	80.9	
26	81.0	80.9	80.9	
27		81.2	80.9	

Table C-5c
Vertical Temperature Profiles at Will County Station, 8 August 2002

Depth (ft)	W180-1/4 1345	W180-1/2 1349	W180-3/4 1352	W525-1/4 1337	W525-1/2 1339	W525-3/4 1342
0.25	87.4	87.6	90.5	88.7	88.1	87.6
1	88.2	88.4	90.5	89.1	88.5	88.6
2	88.3	89.7	91.5	89.1	88.5	88.7
3	88.2	89.5	91.4	89.1	88.3	88.6
4	88.0	88.1	90.5	89.2	88.4	88.5
5	87.9	87.4	90.0	89.4	88.5	88.4
6	87.9	86.8	89.4	88.8	88.3	88.3
7	87.9	86.5	88.6	89.2	88.1	88.2
8	87.8	86.5	88.0	89.4	88.1	88.1
9	87.8	86.5	87.6	89.5	88.1	87.6
10	87.8	86.5	87.2	89.5	88.2	87.3
11	87.7	86.5	86.8	89.5	88.2	86.8
12	87.6	86.2	86.3	89.6	88.2	86.6
13	87.4	86.0	86.3	89.4	88.2	86.2
14	87.2	85.7	86.4	89.3	88.2	85.9
15	86.8	84.9	86.4	89.2	88.1	85.7
16	86.1	85.2	85.5	89.2	87.6	86.6
17	85.7	86.4	84.3	89.0	87.1	87.4
18	84.2	86.8	83.6	88.7	86.7	87.5
19	82.8	87.0	82.1	87.9	86.4	87.5
20	81.9	87.2	81.5	87.4	85.4	87.5
21	81.4	87.2	81.2	87.0	84.7	86.6
22	81.1	87.3	81.1	86.0	84.0	83.6
23	81.1	87.4	81.0	84.7	83.1	82.3
24	81.0	87.3	81.0	83.6	82.2	81.7
25	81.0	87.3	81.0	83.1	81.6	81.5
26	81.0	87.3	81.0	84.8	81.5	
27			81.0			

Table C-5d
 Vertical Temperature Profiles at Will County Station, 8 August 2002

Depth (ft)	W1000-1/4 1322	W1000-1/2 1327	W1000-3/4 1330	W1500-1/4 1308	W1500-1/2 1313	W1500-3/4 1320
0.25	89.1	87.1	87.8	88.5	87.9	87.9
1	89.5	87.7	88.4	89.8	87.4	88.3
2	89.7	87.8	88.4	89.9	87.3	88.4
3	89.7	88.0	88.4	89.9	87.3	88.4
4	89.5	88.1	88.4	89.7	87.1	88.0
5	89.2	88.1	88.4	89.1	87.0	87.8
6	89.0	88.1	88.3	88.7	86.8	87.9
7	88.9	88.1	88.3	88.6	86.7	87.6
8	88.8	88.0	88.2	88.5	86.9	87.4
9	88.7	87.9	88.1	88.4	86.9	87.3
10	88.6	87.8	88.0	88.3	86.9	87.3
11	88.5	87.8	87.9	88.1	86.9	87.4
12	88.1	87.8	87.8	88.0	86.9	87.4
13	88.0	87.8	87.8	87.9	86.9	87.5
14	87.8	87.8	87.9	87.8	86.9	87.5
15	87.7	87.7	87.9	87.7	86.8	87.5
16	87.5	87.5	87.8	87.6	86.7	87.5
17	87.4	87.1	87.7	87.5	86.6	87.5
18	87.0	86.1	87.6	87.4	86.6	87.5
19	86.9	85.8	87.5	87.3	86.6	87.4
20	86.6	85.6	87.1	87.2	86.6	87.4
21	86.3	85.6	86.7	87.0	86.7	87.4
22	85.8	85.1	85.6	86.7		
23	85.4	84.8	84.8	86.2		
24	84.7	84.2	84.2	85.4		
25	83.5	83.5	83.8	84.6		
26	82.7	83.2	83.4	84.2		
27	82.6			84.4		

Table C-5e
 Vertical Temperature Profiles at Will County Station, 8 August 2002

Depth (ft)	W2200-1/4 1300	W2200-1/2 1303	W2200-3/4 1305	W3000-1/4 1251	W3000-1/2 1254	W3000-3/4 1256
0.25	87.9	88.4	88.1	87.5	88.6	88.4
1	89.0	89.3	88.4	88.4	88.6	88.5
2	89.0	89.2	88.6	88.5	88.5	88.5
3	88.6	89.0	88.4	88.4	88.4	88.4
4	88.2	88.8	88.3	88.3	88.3	88.4
5	88.1	88.5	88.2	88.2	88.3	88.4
6	88.0	88.4	88.1	88.1	88.2	88.3
7	88.0	88.3	87.9	88.0	88.2	88.3
8	87.9	88.2	87.9	87.9	88.1	88.2
9	87.7	88.1	87.9	87.9	88.1	88.2
10	87.7	88.0	87.8	87.8	88.1	88.2
11	87.6	87.9	87.8	87.7	87.9	88.1
12	87.6	87.8	87.8	87.7	87.9	88.1
13	87.6	87.7	87.7	87.7	87.8	87.9
14	87.5	87.6	87.6	87.6	87.8	87.8
15	87.5	87.5	87.5	87.6	87.7	87.7
16	87.5	87.4	87.4	87.5	87.7	87.7
17	87.5	87.3	87.4	87.5	87.6	87.6
18	87.5	87.1	87.4	87.4	87.5	87.6
19	87.4	86.9	87.3	87.4	87.4	87.5
20	87.4	86.8	87.1	87.4	87.3	87.3
21	87.4	86.6	86.7	87.4	87.3	87.2
22	87.3	86.5	86.4	87.4	87.3	87.2
23	87.2	86.3	86.1	87.3	87.2	87.2
24	87.0	86.0	85.9	87.2	87.1	87.2
25	86.8	85.9		87.1	87.0	87.1
26		85.9		87.0	87.0	87.2
27						

Table C-5f
Vertical Temperature Profiles at Will County Station, 8 August 2002

Depth (ft)	W4000-1/4 1241	W4000-1/2 1244	W4000-3/4 1247	W5000-1/4 1219	W5000-1/2 1222	W5000-3/4 1224
0.25	87.4	87.7	87.2	86.9	86.9	86.8
1	88.2	87.8	87.4	86.8	87.0	86.9
2	88.1	88.0	87.5	86.8	87.0	86.9
3	87.8	87.9	87.6	86.8	86.9	86.8
4	87.7	87.7	87.5	86.8	86.8	86.8
5	87.8	87.5	87.5	86.8	86.8	86.8
6	87.8	87.3	87.4	86.8	86.7	86.8
7	87.8	87.3	87.4	86.8	86.7	86.8
8	87.7	87.3	87.4	86.8	86.7	86.8
9	87.7	87.2	87.4	86.8	86.7	86.8
10	87.7	87.2	87.4	86.8	86.7	86.8
11	87.6	87.2	87.4	86.8	86.7	86.8
12	87.5	87.2	87.4	86.8	86.7	86.8
13	87.5	87.2	87.4	86.8	86.7	86.7
14	87.4	87.2	87.4	86.8	86.6	86.7
15	87.3	87.2	87.4	86.8	86.6	86.7
16	87.3	87.2	87.3	86.8	86.5	86.6
17	87.2	87.2	87.3	86.7	86.5	
18	87.2	87.2	87.3	86.7	86.5	
19	87.2	87.2	87.3	86.7	86.5	
20	87.2	87.1	87.3	86.7	86.4	
21	87.2	87.1	87.3	86.6	86.4	
22	87.2	87.0	87.3	86.6	86.4	
23	87.2	86.9	87.1	86.5	86.4	
24	87.2	86.9	87.0	86.5	86.4	
25	87.2	86.9	87.0	86.5	86.4	
26		86.9		86.5	86.4	
27				86.5	86.4	

Table C-6a
Vertical Temperature Profiles at Will County Station, 16 August 2002

Depth (ft)	UPSTR-1/2 1326	W-250-1/2 1318	W0-1/5 1311	W0-4/5 1314	W180-1/2 1308	W525-1/2 1304
0.25	81.1		86.9	90.8		88.4
1	81.6	87.4	86.7	90.9	89.0	88.4
2	81.2	87.4	86.8	91.3	88.9	88.5
3	81.1	87.3	86.6	91.2	88.4	88.6
4	81.0	87.2	86.5	91.2	87.4	88.7
5	81.0	86.7	86.1	91.1	87.2	88.6
6	80.9	86.0	85.9	90.7	87.2	88.5
7	80.9	85.4	85.8	89.8	87.2	88.2
8	80.9	84.8	85.8	89.6	87.1	88.1
9	80.9	84.2	85.7	89.8	86.8	88.0
10	80.9	83.6	85.6	90.5	86.6	87.9
11	81.0	83.0	85.4	90.6	85.1	87.9
12	81.0	82.7	85.1	90.3	83.9	87.8
13	81.0	82.5	84.2	89.9	82.9	87.8
14	81.0	82.2	83.3	89.7	82.5	87.8
15	80.9	81.6	82.8	87.8	82.1	87.8
16	80.9	81.3	82.4	83.1	81.8	87.8
17	80.9	81.1	82.0		81.6	87.7
18	80.9	81.0	81.6		81.5	87.5
19	80.9	81.0	81.4		81.2	87.3
20	80.8	80.9	81.2		81.1	87.1
21	80.8	80.9	81.1		81.1	86.8
22	80.8	80.8	80.9		81.0	86.4
23	80.8	80.8	80.9		80.9	85.6
24	80.8	80.8	80.8		80.9	84.5
25	80.8	80.8	80.8		80.9	83.6
26	80.9	80.8	80.8		80.9	83.2
27						83.1

Table C-6b
 Vertical Temperature Profiles at Will County Station, 16 August 2002

Depth (ft)	W1000-1/2 1257	W1500-1/2 1254	W2200-1/2 1249	W3000-1/2 1245	W4000-1/2 1240	W5000-1/2 1232
0.25	89.1		89.2	89.5	88.6	88.5
1	89.0	89.0	89.1	89.2	88.6	88.2
2	89.1	88.6	89.2	89.4	88.6	88.5
3	89.1	88.6	89.2	89.4	88.6	88.5
4	89.1	88.6	89.2	89.4	88.6	88.5
5	89.1	88.6	89.2	89.4	88.6	88.5
6	89.1	88.6	89.2	89.4	88.6	88.5
7	89.0	88.6	89.2	89.4	88.6	88.5
8	89.0	88.6	89.2	89.4	88.6	88.5
9	89.0	88.6	89.2	89.3	88.6	88.5
10	88.9	88.6	89.2	89.3	88.6	88.5
11	88.8	88.5	89.2	89.2	88.6	88.5
12	88.8	88.5	89.1	89.2	88.6	88.5
13	88.8	88.5	89.1	89.2	88.6	88.5
14	88.8	88.3	89.0	89.2	88.6	88.4
15	88.8	88.1	88.9	89.2	88.6	88.4
16	88.7	88.1	88.8	89.1	88.6	88.4
17	88.7	88.2	88.6	89.0	88.6	88.4
18	88.7	88.2	88.5	89.0	88.6	88.4
19	88.6	88.1	88.4	88.9	88.5	88.4
20	88.6	87.8	88.4	88.7	88.5	88.5
21	88.6	87.4	88.3	88.6	88.5	88.5
22	88.6	87.2	88.3	88.5	88.5	88.5
23	88.4	87.0	88.3	88.4	88.5	88.5
24	88.0	87.0	88.3	88.4	88.5	88.5
25	87.7		88.3	88.3	88.5	88.5
26	87.5		88.3	88.2	88.4	88.5
27						

Table C-7a
Vertical Temperature Profiles at Will County Station, 29 August 2002

Depth (ft)	UPSTR-1/4 1236	UPSTR-1/2 1239	UPSTR-3/4 1241	W-250-1/4 1227	W-250-1/2 1229	W-250-3/4 1232
0.25	78.8	78.4	78.5	79.0	78.7	78.7
1	78.6	78.4	78.5	78.8	78.7	78.6
2	78.5	78.4	78.5	78.8	78.6	78.6
3	78.5	78.4	78.5	78.8	78.6	78.6
4	78.5	78.4	78.5	78.7	78.6	78.6
5	78.5	78.4	78.5	78.7	78.5	78.5
6	78.5	78.4	78.5	78.7	78.5	78.5
7	78.5	78.4	78.5	78.6	78.5	78.5
8	78.5	78.4	78.5	78.6	78.5	78.4
9	78.5	78.4	78.5	78.5	78.5	78.5
10	78.5	78.4	78.5	78.5	78.5	78.4
11	78.5	78.4	78.5	78.5	78.5	78.4
12	78.5	78.4	78.5	78.5	78.4	78.4
13	78.7	78.4	78.5	78.5	78.4	78.4
14	78.7	78.4	78.5	78.7	78.4	78.4
15	78.7	78.4	78.5	78.7	78.5	78.5
16	78.7	78.4	78.4	78.8	78.5	78.4
17	78.8	78.4	78.4	78.8	78.5	78.5
18	78.9	78.4	78.4	78.9	78.5	78.5
19	78.8	78.4	78.4	79.0	78.5	78.5
20	78.8	78.4	78.4	78.9	78.5	78.5
21	78.7	78.4	78.5	79.1	78.5	78.5
22	78.8	78.4	78.4	79.1	78.5	78.5
23	78.8	78.4	78.4	79.2	78.5	78.5
24	78.7	78.4	78.4	79.1	78.5	78.5
25	78.6	78.4	78.4	79.2	78.5	78.5
26	78.5	78.4	78.5	79.2	78.5	78.5
27					78.5	

Table C-7b
 Vertical Temperature Profiles at Will County Station, 29 August 2002

Depth (ft)	W0-1/5 1216	W0-2/5 1220	W0-3/5 1222	W0-4/5 1225
0.25	79.2	78.9	84.2	88.6
1	78.8	78.8	85.1	89.0
2	78.8	78.8	84.3	88.8
3	78.7	78.7	83.2	88.9
4	78.7	78.7	82.4	89.0
5	78.6	78.6	81.7	89.0
6	78.6	78.6	81.4	89.1
7	78.6	78.6	81.1	89.1
8	78.5	78.5	80.7	89.1
9	78.5	78.5	79.6	89.1
10	78.5	78.5	79.2	89.0
11	78.7	78.5	79.0	89.0
12	78.7	78.5	78.9	89.0
13	78.8	78.5	78.9	
14	78.8	78.6	78.9	
15	78.8	78.7	79.1	
16	78.9	78.6	79.3	
17	78.9	78.7	79.5	
18	79.0	78.7	79.7	
19	78.9	78.7	79.8	
20	79.0	78.8	79.6	
21	79.1	78.8	79.7	
22	79.0	78.8	79.9	
23	79.1	78.8	79.8	
24	79.1	78.8	79.9	
25	79.0	78.8		
26	79.1	78.8		
27				

Table C-7c
 Vertical Temperature Profiles at Will County Station, 29 August 2002

Depth (ft)	W180-1/4 1209	W180-1/2 1211	W180-3/4 1214	W525-1/4 1201	W525-1/2 1203	W525-3/4 1205
0.25	87.2	87.5	88.0	85.2	84.1	84.4
1	84.6	86.0	87.2	84.8	84.0	84.3
2	84.1	85.4	87.1	84.8	83.9	84.3
3	82.4	84.9	87.0	84.8	83.9	84.1
4	82.0	84.6	86.7	84.8	83.8	83.8
5	82.0	84.8	86.4	84.8	83.7	83.2
6	82.9	84.6	86.3	84.8	83.8	83.0
7	83.2	82.9	86.0	84.2	83.8	83.1
8	81.9	81.7	85.7	83.9	83.7	83.2
9	80.8	81.0	85.6	84.2	83.6	83.1
10	80.5	81.0	85.6	84.3	83.6	83.0
11	80.3	81.3	85.6	84.0	83.5	82.9
12	80.1	81.3	85.6	83.8	83.6	82.7
13	80.1	82.1	85.5	83.9	83.5	82.7
14	80.0	82.0	85.2	83.9	83.5	82.7
15	80.0	82.3	84.9	83.8	83.5	82.8
16	80.3	82.1	84.9	83.7	83.6	82.7
17	80.6	81.8	84.8	83.7	83.5	82.9
18	80.7	81.4	85.0	83.8	83.5	82.9
19	80.8	81.2	84.7	83.7	83.6	82.6
20	80.7	81.6	84.8	83.7	83.5	82.7
21	80.5	81.5	84.5	83.8	83.5	82.5
22	80.7	81.2	84.5	83.7	83.5	82.4
23	80.8	81.3	84.6	83.4	83.4	82.5
24	80.9	81.2	84.5	83.2	83.4	82.4
25	80.6	81.1	83.4	83.1	83.4	82.6
26	80.7	81.3	82.7	83.1	83.4	
27			83.3	83.1	83.0	

Table C-7d
 Vertical Temperature Profiles at Will County Station, 29 August 2002

Depth (ft)	W1000-1/4 1148	W1000-1/2 1151	W1000-3/4 1153	W1500-1/4 1140	W1500-1/2 1143	W1500-3/4 1145
0.25	84.4	84.9	84.5	84.4	83.7	83.9
1	84.8	85.0	84.4	84.3	83.8	83.9
2	84.7	85.1	84.5	84.3	83.8	83.9
3	84.4	84.8	84.4	84.3	83.8	83.9
4	84.2	84.6	84.4	84.3	83.8	83.9
5	84.2	84.5	84.5	84.2	83.8	83.9
6	84.2	84.5	84.4	83.9	83.8	83.9
7	84.1	84.4	84.4	83.6	83.8	83.9
8	84.1	84.3	84.3	83.5	83.8	83.8
9	84.0	84.2	84.3	83.4	83.8	83.7
10	83.9	84.0	84.3	83.4	83.7	83.7
11	83.9	84.1	84.2	83.4	83.6	83.7
12	83.9	84.0	84.2	83.4	83.5	83.7
13	83.9	84.0	84.2	83.4	83.5	83.7
14	83.9	84.1	84.3	83.4	83.4	83.7
15	83.8	84.1	84.2	83.4	83.3	83.7
16	83.7	84.1	84.2	83.4	83.3	83.6
17	83.8	84.0	84.2	83.4	83.3	83.5
18	83.7	84.1	84.2	83.4	83.2	83.6
19	83.7	84.1	84.2	83.4	82.9	83.5
20	83.6	84.1	84.2	83.4	82.8	
21	83.4	84.0	84.2	83.4		
22	83.4	83.8	84.2	83.3		
23	83.4	83.9	84.1	83.2		
24	83.5	83.8	84.1	83.2		
25	83.4	83.7	84.2	83.2		
26	83.4	83.8		82.9		
27				82.7		

Table C-7e
 Vertical Temperature Profiles at Will County Station, 29 August 2002

Depth (ft)	W2200-1/4 1132	W2200-1/2 1134	W2200-3/4 1136	W3000-1/4 1120	W3000-1/2 1123	W3000-3/4 1126
0.25	82.7	82.9	82.8	83.2	83.1	83.2
1	82.8	82.8	82.8	83.3	83.2	83.2
2	82.7	82.8	82.8	83.3	83.2	83.1
3	82.7	82.8	82.8	83.3	83.1	83.0
4	82.7	82.7	82.8	83.2	83.1	82.9
5	82.6	82.7	82.7	83.2	83.1	82.9
6	82.6	82.7	82.6	83.2	83.1	82.9
7	82.4	82.8	82.6	83.1	83.1	82.9
8	82.3	82.8	82.6	83.1	83.1	82.9
9	82.3	82.8	82.6	83.1	83.1	82.9
10	82.3	82.8	82.6	83.1	83.1	82.9
11	82.3	82.7	82.6	83.0	83.1	82.9
12	82.3	82.7	82.6	83.0	83.0	82.9
13	82.3	82.7	82.6	83.0	83.0	82.9
14	82.3	82.7	82.6	83.0	83.0	82.9
15	82.3	82.7	82.6	83.0	83.0	82.8
16	82.3	82.7	82.6	82.9	83.0	82.8
17	82.3	82.6	82.5	82.9	83.0	82.8
18	82.3	82.6	82.5	82.9	83.0	82.8
19	82.3	82.7	82.5	82.9	83.0	82.8
20	82.3	82.6	82.5	82.9	82.9	82.8
21	82.3	82.6	82.5	82.9	82.9	82.8
22	82.2	82.6	82.5	82.8	82.9	82.8
23	82.1	82.5	82.4	82.8	82.9	82.8
24	82.1	82.5	82.4	82.8	82.9	82.8
25	82.1	82.4		82.8	82.9	82.8
26	82.0	82.4		82.8	82.8	
27						

Table C-7f
 Vertical Temperature Profiles at Will County Station, 29 August 2002

Depth (ft)	W4000-1/4 1110	W4000-1/2 1114	W4000-3/4 1116	W5000-1/4 11 1	W5000-1/2 11 4	W5000-3/4 11 7
0.25	82.8	83.0	83.2	83.1	83.2	83.1
1	82.9	83.1	83.2	83.0	83.1	83.0
2	82.9	83.0	83.2	82.9	83.0	82.9
3	82.9	83.1	83.2	82.8	82.8	82.9
4	82.9	83.0	83.1	82.7	82.7	82.8
5	82.9	82.9	83.1	82.6	82.6	82.7
6	82.8	82.8	83.0	82.5	82.6	82.7
7	82.8	82.8	83.0	82.5	82.6	82.7
8	82.7	82.8	82.9	82.4	82.6	82.7
9	82.7	82.8	82.9	82.4	82.5	82.6
10	82.7	82.8	83.0	82.4	82.5	82.6
11	82.7	82.8	83.0	82.4	82.5	82.6
12	82.7	82.7	83.0	82.3	82.5	82.6
13	82.7	82.7	83.0	82.3	82.5	82.6
14	82.7	82.7	82.9	82.3	82.5	82.6
15	82.7	82.7	82.9	82.2	82.5	82.6
16	82.7	82.7	82.9	82.2	82.5	82.6
17	82.7	82.7	82.9	82.2	82.5	
18	82.7	82.6	82.9	82.2	82.5	
19	82.7	82.6	82.9	82.2	82.4	
20	82.7	82.6	82.9	82.2	82.4	
21	82.6	82.6	82.9	82.2	82.4	
22	82.6	82.5	82.8	82.2	82.3	
23	82.6	82.5	82.8	82.1	82.3	
24	82.6	82.5	82.8	82.1	82.4	
25	82.6	82.5		82.0	82.3	
26	82.6	82.5		82.0	82.4	
27					82.3	

Table C-8a
 Vertical Temperature Profiles at Will County Station, 4 September 2002

Depth (ft)	UPSTR-1/2 1140	W-250-1/2 1132	W0-1/5 1127	W0-4/5 1129	W180-1/2 1124	W525-1/2 1116
0.25	80.2	85.7	86.1	91.6	90.8	88.3
1	80.1	85.5	86.0	91.8	91.5	88.0
2	80.1	85.3	85.9	91.8	91.4	87.9
3	80.0	85.0	85.9	91.9	91.4	87.7
4	79.9	84.6	85.7	91.9	90.8	87.4
5	79.9	84.2	85.5	91.9	89.0	87.3
6	79.8	83.9	85.2	91.9	88.3	87.3
7	79.8	83.6	84.3	91.9	87.1	87.2
8	79.7	83.2	83.6	91.9	85.9	87.1
9	79.7	83.0	83.4	91.9	85.5	87.1
10	79.7	82.8	83.2	91.9	85.3	87.1
11	79.7	82.3	82.9	91.9	85.3	87.0
12	79.7	82.0	82.8	91.9	85.2	87.0
13	79.7	81.8	82.8	91.9	85.6	86.9
14	79.7	81.6	83.0	91.8	85.9	86.9
15	79.7	81.8	83.2		85.9	86.9
16	79.8	81.8	83.3		85.8	86.8
17	79.8	82.2	83.2		85.3	86.6
18	79.8	82.5	83.0		85.5	86.5
19	79.8	82.5	83.0		85.5	86.5
20	79.8	82.4	82.9		85.2	86.3
21	79.8	82.4	82.9		85.4	86.1
22	79.8	82.1	82.7		85.3	85.9
23	79.8	81.6	82.7		85.3	85.6
24	79.8	80.9	82.8		85.2	85.2
25	79.8	80.6	82.9		85.3	84.8
26	79.8	80.1	83.0		85.4	84.2
27		80.0				

Table C-8b
 Vertical Temperature Profiles at Will County Station, 4 September 2002

Depth (ft)	W1000-1/2 1119	W1500-1/2 1059	W2200-1/2 1055	W3000-1/2 1051	W4000-1/2 1047	W5000-1/2 1042
0.25	87.8	87.5	87.6	87.4	87.1	86.4
1	87.9	87.6	87.6	87.4	87.1	86.5
2	87.9	87.6	87.4	87.2	87.1	86.5
3	87.8	87.5	87.2	87.0	87.0	86.4
4	87.4	87.3	87.1	86.9	86.6	86.4
5	87.3	87.2	87.0	86.9	86.4	86.4
6	87.1	87.0	87.0	86.8	86.3	86.4
7	86.8	86.9	87.0	86.7	86.3	86.4
8	86.6	86.8	86.9	86.6	86.2	86.3
9	86.5	86.7	86.9	86.6	86.1	86.3
10	86.5	86.7	86.9	86.5	86.0	86.3
11	86.5	86.6	86.8	86.5	86.0	86.3
12	86.4	86.6	86.8	86.5	86.0	86.3
13	86.4	86.6	86.8	86.3	85.9	86.3
14	86.4	86.5	86.8	86.3	85.9	86.2
15	86.3	86.5	86.7	86.2	85.9	86.2
16	86.3	86.5	86.6	86.1	85.9	86.2
17	86.4	86.5	86.5	86.0	85.8	86.2
18	86.3	86.5	86.4	85.9	85.7	86.1
19	86.3	86.5	86.3	85.7	85.6	86.1
20	86.3	86.5	86.2	85.6	85.6	86.1
21	86.3	86.5	86.1	85.6	85.5	86.1
22	86.1	86.5	85.9	85.5	85.5	
23	86.2		85.7	85.5	85.5	
24	86.2		85.6	85.4	85.4	
25	86.2		85.4	85.4	85.4	
26	86.2		85.3	85.3	85.4	
27						

APPENDIX D

HOURLY WILL COUNTY STATION OPERATIONAL AND CANAL FLOW DATA

Table D-1 Hourly Will County Station Operational Data and Canal Flows, 27 June 2002

Day	Hour	Power Production (Mwe)	Temperature (F)			Plant Flow (cfs)	Canal Flow (cfs)
			Intake	Discharge	Delta		
10-Jul-02	1	1009	79.5	94.2	14.7	2006	3768
10-Jul-02	2	831	78.8	92.7	13.9	2006	2659
10-Jul-02	3	729	78.8	91.2	12.4	2006	2185
10-Jul-02	4	687	79.2	89.4	10.2	2006	2194
10-Jul-02	5	658	79.6	88.1	8.5	2006	2205
10-Jul-02	6	662	79.6	88.1	8.5	2006	1949
10-Jul-02	7	746	79.6	88.9	9.3	2006	2173
10-Jul-02	8	1004	79.6	92.2	12.6	2006	2951
10-Jul-02	9	1078	79.3	93.3	14.0	2006	2551
10-Jul-02	10	1105	78.8	93.5	14.7	2006	2118
10-Jul-02	11	1098	79.6	93.8	14.2	2006	2377
10-Jul-02	12	1081	79.6	93.3	13.7	2006	2376
10-Jul-02	13	1083	80.1	94.1	14.0	2006	2907
10-Jul-02	14	1081	80.6	94.6	14.0	2006	2940
10-Jul-02	15	1068	80.3	94.1	13.8	2006	2449
10-Jul-02	16	1073	79.5	93.3	13.8	2006	2798
10-Jul-02	17	1080	79.5	93.3	13.8	2006	2900
10-Jul-02	18	1070	80.3	94.1	13.9	2006	2859
10-Jul-02	19	1038	80.5	94.4	13.9	2006	2401
10-Jul-02	20	1089	80.5	94.4	13.9	2006	3099
10-Jul-02	21	1080	80.8	94.7	13.9	2006	2581
10-Jul-02	22	1016	80.6	94.2	13.6	2006	2808
10-Jul-02	23	994	81.6	94.2	12.6	2006	2589
10-Jul-02	24	783	80.9	91.4	10.5	2006	2968
Average		967	79.9	92.7	12.9	2006	2617

Table D-2 Hourly Will County Station Operational Data and Canal Flows, 10 July 2002

Day	Hour	Power Production (Mwe)	Temperature (F)			Plant Flow (cfs)	Canal Flow (cfs)
			Intake	Discharge	Delta		
10-Jul-02	1	451	80.7	93.6	12.9	1910	3239
10-Jul-02	2	420	80.7	94.4	13.7	1904	2754
10-Jul-02	3	416	80.7	93.8	13.1	1901	2933
10-Jul-02	4	416	79.7	93.8	14.1	1898	2335
10-Jul-02	5	449	79.7	94.3	14.7	1893	3383
10-Jul-02	6	456	79.7	94.9	15.2	1890	2643
10-Jul-02	7	439	79.7	94.1	14.4	1886	3244
10-Jul-02	8	553	79.7	95.4	15.7	1881	4143
10-Jul-02	9	711	79.7	99.6	19.9	1877	3623
10-Jul-02	10	916	79.7	104.8	25.2	1872	4183
10-Jul-02	11	1047	79.7	109.3	29.6	1869	3971
10-Jul-02	12	1043	78.9	109.6	30.7	1865	3394
10-Jul-02	13	1080	78.9	103.8	24.9	1860	3870
10-Jul-02	14	1108	78.9	96.2	17.3	1857	3458
10-Jul-02	15	1105	78.9	96.2	17.3	1851	3931
10-Jul-02	16	1105	78.9	96.2	17.3	1848	2695
10-Jul-02	17	1087	78.9	96.5	17.6	1845	2344
10-Jul-02	18	1035	78.9	97.3	18.4	1840	3149
10-Jul-02	19	875	79.7	95.7	16.0	1837	2546
10-Jul-02	20	842	80.9	96.2	15.3	1832	3142
10-Jul-02	21	797	80.9	94.6	13.7	1828	3254
10-Jul-02	22	767	80.9	94.4	13.5	1824	3321
10-Jul-02	23	853	80.9	94.9	14.0	1819	2684
10-Jul-02	24	609	80.4	92.8	12.4	1816	2850
Average		774.2	79.8	97.2	17.4	1863	3212

Table D-3 Hourly Will County Station Operational Data and Canal Flows, 24 July 2002

Day	Hour	Power Production (Mwe)	Temperature (F)			Plant Flow (cfs)	Canal Flow (cfs)
			Intake	Discharge	Delta		
24-Jul-02	1	420	83.7	90.7	7.0	2005	2162
24-Jul-02	2	406	83.5	90.0	6.5	2005	2782
24-Jul-02	3	404	83.5	90.0	6.5	2005	2943
24-Jul-02	4	412	83.5	89.9	6.4	2005	2113
24-Jul-02	5	432	83.2	89.7	6.5	2005	2958
24-Jul-02	6	467	83.1	90.1	7.0	2005	2438
24-Jul-02	7	428	83.1	89.9	6.8	2005	1333
24-Jul-02	8	514	83.1	89.9	6.8	2005	1671
24-Jul-02	9	705	83.0	91.2	8.2	2005	4149
24-Jul-02	10	846	84.3	94.3	9.9	2005	3584
24-Jul-02	11	971	84.4	96.3	11.8	2005	3556
24-Jul-02	12	1023	83.4	96.3	12.9	2005	3007
24-Jul-02	13	1032	83.4	96.5	13.1	2005	2838
24-Jul-02	14	1028	83.4	96.5	13.1	2005	2878
24-Jul-02	15	1033	83.4	96.5	13.1	2005	2609
24-Jul-02	16	1019	83.7	97.1	13.5	2005	2894
24-Jul-02	17	985	83.4	95.9	12.5	2005	2651
24-Jul-02	18	1024	83.4	96.6	13.2	2005	3058
24-Jul-02	19	903	83.5	96.6	13.1	2005	2504
24-Jul-02	20	873	83.8	96.8	13.0	2005	3088
24-Jul-02	21	873	83.8	96.6	12.8	2005	2747
24-Jul-02	22	819	83.4	96.1	12.6	2005	2701
24-Jul-02	23	889	83.3	96.3	13.0	2005	2248
24-Jul-02	24	734	83.3	96.0	12.7	2005	
Average		760.0	83.5	94.0	10.5	2005	2735

Table D-4 Hourly Will County Station Operational Data and Canal Flows, 31 July 2002

Day	Hour	Power Production (Mwe)	Temperature (F+E31)			Plant Flow (cfs)	Canal Flow (cfs)
			Intake	Discharge	Delta		
31-Jul-02	1	976	82.1	98.0	15.9	2005	2357
31-Jul-02	2	817	82.3	98.1	15.8	2005	2288
31-Jul-02	3	584	82.3	93.5	11.1	2005	2408
31-Jul-02	4	421	82.1	89.8	7.7	2005	2267
31-Jul-02	5	423	83.0	88.3	5.3	2005	2169
31-Jul-02	6	482	81.8	89.6	7.7	2005	2348
31-Jul-02	7	411	81.7	89.5	7.8	2005	2219
31-Jul-02	8	497	82.2	89.8	7.6	2005	2601
31-Jul-02	9	544	82.4	89.9	7.5	2005	2533
31-Jul-02	10	654	82.4	90.6	8.2	2005	2565
31-Jul-02	11	773	82.4	91.6	9.2	2005	3257
31-Jul-02	12	909	82.4	94.6	12.2	2005	2646
31-Jul-02	13	933	82.4	95.3	12.9	2005	3295
31-Jul-02	14	1063	82.4	97.6	15.2	2005	3396
31-Jul-02	15	1079	82.4	98.3	15.9	2005	3154
31-Jul-02	16	1072	82.4	98.5	16.1	2005	3445
31-Jul-02	17	1071	82.4	98.5	16.1	2005	3623
31-Jul-02	18	1061	82.4	98.5	16.1	2005	3543
31-Jul-02	19	993	82.4	97.2	14.8	2005	3003
31-Jul-02	20	1006	82.4	97.6	15.2	2005	3608
31-Jul-02	21	1064	82.4	98.0	15.6	2005	3160
31-Jul-02	22	1051	82.4	98.2	15.8	2005	3643
31-Jul-02	23	1014	82.4	97.5	15.1	2005	2807
31-Jul-02	24	984	82.6	97.5	14.9	2005	2570
Average		828.4	82.3	94.8	12.5	2005	2871

Table D-5 Hourly Will County Station Operational Data and Canal Flows, 8 August 2002

Day	Hour	Power Production (Mwe)	Temperature (F)			Plant Flow (cfs)	Canal Flow (cfs)
			Intake	Discharge	Delta		
08-Aug-02	1	349	80.7	89.5	8.8	2005	2743
08-Aug-02	2	312	80.8	87.8	7.0	2005	2443
08-Aug-02	3	307	81.1	87.6	6.5	2005	2444
08-Aug-02	4	313	81.0	87.6	6.6	2005	1944
08-Aug-02	5	333	81.0	87.6	6.6	2005	2943
08-Aug-02	6	368	80.9	87.6	6.7	2005	2645
08-Aug-02	7	359	80.7	87.7	7.0	2005	2550
08-Aug-02	8	444	80.7	87.8	7.1	2005	2547
08-Aug-02	9	595	80.5	89.1	8.6	2005	2513
08-Aug-02	10	674	80.4	89.6	9.2	2005	2608
08-Aug-02	11	791	80.3	91.3	10.9	2005	3218
08-Aug-02	12	892	80.4	93.0	12.6	2005	3563
08-Aug-02	13	1054	80.4	96.4	16.0	2005	3084
08-Aug-02	14	1047	80.4	96.9	16.5	2005	3348
08-Aug-02	15	1047	80.4	96.9	16.5	2005	2981
08-Aug-02	16	1061	80.4	96.9	16.5	2005	2795
08-Aug-02	17	1027	80.5	96.6	16.1	2005	3108
08-Aug-02	18	998	80.6	95.6	15.0	2005	2937
08-Aug-02	19	926	80.7	94.3	13.5	2005	2547
08-Aug-02	20	729	80.8	91.3	10.5	2005	2531
08-Aug-02	21	694	80.8	90.9	10.1	2005	2635
08-Aug-02	22	675	80.8	90.6	9.8	2005	3260
08-Aug-02	23	649	80.6	90.3	9.7	2005	2629
08-Aug-02	24	549	80.3	89.8	9.5	2005	2510
Average		674.7	80.6	91.4	10.7	2005	2772

Table D-6 Hourly Will County Station Operational Data and Canal Flows, 16 August 2002

Day	Hour	Power Production (Mwe)	Temperature (F)			Plant Flow (cfs)	Canal Flow (cfs)
			Intake	Discharge	Delta		
16-Aug-02	1	424	81.6	96.8	15.2	2006	2454
16-Aug-02	2	387	81.6	94.9	13.3	2006	2607
16-Aug-02	3	450	81.6	91.4	9.8	2006	2531
16-Aug-02	4	473	81.1	87.8	6.7	2006	2531
16-Aug-02	5	456	80.7	86.5	5.8	2006	1911
16-Aug-02	6	326	80.4	88.9	8.5	2006	2221
16-Aug-02	7	244	80.4	92.1	11.7	2006	2027
16-Aug-02	8	404	80.4	91.9	11.5	2006	2939
16-Aug-02	9	647	80.4	93.3	12.8	2006	2260
16-Aug-02	10	757	80.4	95.0	14.6	2006	3935
16-Aug-02	11	839	80.4	95.7	15.3	2006	2607
16-Aug-02	12	794	80.8	96.1	15.3	2006	4194
16-Aug-02	13	915	80.5	97.0	16.5	2006	2681
16-Aug-02	14	1048	80.3	96.5	16.2	2006	2939
16-Aug-02	15	1084	80.3	95.6	15.3	2006	3271
16-Aug-02	16	1108	80.3	94.4	14.1	2006	3456
16-Aug-02	17	1102	80.3	94.7	14.4	2006	3050
16-Aug-02	18	1077	80.3	94.8	14.4	2006	2939
16-Aug-02	19	1037	80.3	94.7	14.4	2006	3013
16-Aug-02	20	1076	80.3	94.5	14.2	2006	3123
16-Aug-02	21	1103	80.2	94.5	14.3	2006	2902
16-Aug-02	22	1061	80.2	92.0	11.8	2006	2415
16-Aug-02	23	1082	80.2	92.8	12.6	2006	2531
16-Aug-02	24	1024	80.2	92.0	11.8	2006	2754
Average		788.3	80.6	93.5	12.9	2006	2804

Table D-7 Hourly Will County Station Operational Data and Canal Flows, 29 August 2002

Day	Hour	Power Production (Mwe)	Temperature (F)			Plant Flow (cfs)	Canal Flow (cfs)
			Intake	Discharge	Delta		
29-Aug-02	1	436	78.0	83.0	5.0	2006	3252
29-Aug-02	2	455	78.0	84.8	6.8	2006	3237
29-Aug-02	3	400	78.3	85.0	6.8	2006	3193
29-Aug-02	4	389	78.0	85.0	7.0	2006	3415
29-Aug-02	5	400	78.0	85.3	7.3	2006	4101
29-Aug-02	6	425	78.0	86.0	8.0	2006	4073
29-Aug-02	7	429	78.0	86.0	8.0	2006	3780
29-Aug-02	8	568	78.0	86.0	8.0	2006	3764
29-Aug-02	9	668	78.0	86.3	8.3	2006	4026
29-Aug-02	10	713	78.0	87.0	9.0	2006	4157
29-Aug-02	11	850	78.0	89.0	11.0	2006	3387
29-Aug-02	12	895	78.0	90.3	12.3	2006	3334
29-Aug-02	13	976	78.0	91.8	13.8	2006	2963
29-Aug-02	14	1040	78.0	92.8	14.8	2006	3637
29-Aug-02	15	1080	78.0	93.0	15.0	2006	3256
29-Aug-02	16	1082	78.0	93.0	15.0	2006	2961
29-Aug-02	17	1072	78.0	93.0	15.0	2006	3537
29-Aug-02	18	1002	78.0	92.3	14.3	2006	3257
29-Aug-02	19	984	78.0	92.0	14.0	2006	2836
29-Aug-02	20	989	78.0	92.0	14.0	2006	3066
29-Aug-02	21	997	78.0	92.0	14.0	2006	3242
29-Aug-02	22	951	78.0	91.8	13.8	2006	3140
29-Aug-02	23	968	78.0	91.8	13.8	2006	2712
29-Aug-02	24	592	78.0	90.0	12.0	2006	2605
Average		765.0	78.0	89.1	11.1	2006	3372

Table D-8 Hourly Will County Station Operational Data and Canal Flows, 4 September 2002

Day	Hour	Power Production (Mwe)	Temperature (F)			Plant Flow (cfs)	Canal Flow (cfs)
			Intake	Discharge	Delta		
04-Sep-02	1	579	80.5	92.8	12.3	2006	1814
04-Sep-02	2	499	80.5	89.8	9.3	2006	2698
04-Sep-02	3	497	80.5	89.1	8.6	2006	2110
04-Sep-02	4	476	80.5	88.6	8.1	2006	2410
04-Sep-02	5	421	80.3	87.1	6.8	2006	2902
04-Sep-02	6	479	79.5	87.2	7.7	2006	2462
04-Sep-02	7	586	79.5	88.3	8.7	2006	2962
04-Sep-02	8	754	79.5	90.0	10.5	2006	3684
04-Sep-02	9	956	79.5	93.8	14.3	2006	2980
04-Sep-02	10	1033	79.5	94.8	15.3	2006	3376
04-Sep-02	11	1071	79.5	94.8	15.3	2006	4142
04-Sep-02	12	1099	79.5	94.8	15.3	2006	3458
04-Sep-02	13	1101	79.5	94.9	15.4	2006	3896
04-Sep-02	14	1100	79.5	95.4	15.9	2006	3859
04-Sep-02	15	1097	79.5	95.6	16.1	2006	3263
04-Sep-02	16	1103	79.5	95.8	16.3	2006	2853
04-Sep-02	17	1109	79.5	95.8	16.3	2006	2940
04-Sep-02	18	1103	79.5	95.8	16.3	2006	3156
04-Sep-02	19	1093	79.5	95.8	16.3	2006	2908
04-Sep-02	20	1103	79.5	95.8	16.3	2006	2814
04-Sep-02	21	1092	79.5	95.8	16.3	2006	3428
04-Sep-02	22	1041	79.7	95.7	15.9	2006	2923
04-Sep-02	23	1014	79.7	95.4	15.7	2006	2533
04-Sep-02	24	834	79.7	93.9	14.2	2006	2010
Average		885.0	79.7	93.2	13.5	2006	2983

APPENDIX E

**GPS COORDINATES OF SURFACE TRANSECTS AND VERTICAL PROFILE
SAMPLING POINTS**

Easting	Northing	Transect	Surface Transect Waypoints	Vertical Profile Sampling Points	Waypoint Label
411710.6	4610399.0	Upstream		1/4	WILLUS1/4
411698.9	4610399.0	Upstream		1/2	WILLUS1/2
411687.1	4610399.3	Upstream		3/4	WILLUS3/4
411722.2	4610398.8	Upstream	Left Bank		WILLUSLB
411675.2	4610400.9	Upstream	Right Bank		WILLUSRB
411611.2	4609315.0	-250		1/4	WILL-2501/4
411599.4	4609314.5	-250		1/2	WILL-2501/2
411588.1	4609315.2	-250		3/4	WILL-2503/4
411623.2	4609312.8	-250	Left Bank		WILL-250LB
411574.7	4609314.2	-250	Right Bank		WILL-250RB
411602.8	4609236.2	0		1/5	WILL01/5
411586.4	4609236.4	0		2/5	WILL02/5
411571.9	4609236.5	0		3/5	WILL03/5
411554.9	4609236.3	0		4/5	WILL04/5
411617.2	4609236.3	0	Left Bank		WILL0LB
411541.8	4609236.4	0	Right Bank		WILL0RB
411563.6	4609242.3		(Location of Will Co. Discharge)		WILLDIS
411598.6	4609188.4	180		1/4	WILL1801/4
411587.2	4609190.1	180		1/2	WILL1801/2
411575.9	4609187.9	180		3/4	WILL1803/4
411611.4	4609187.9	180	Left Bank		WILL180LB
411560.3	4609187.2	180	Right Bank		WILL180RB
411591.5	4609082.4	525		1/4	WILL5251/4
411578.1	4609081.6	525		1/2	WILL5251/2
411564.9	4609083.5	525		3/4	WILL5253/4
411602.7	4609086.2	525	Left Bank		WILL525LB
411552.6	4609082.5	525	Right Bank		WILL525RB
411575.6	4608933.8	1000		1/4	WILL10001/4
411563.3	4608934.8	1000		1/2	WILL10001/2
411551.0	4608934.9	1000		3/4	WILL10003/4
411588.2	4608935.0	1000	Left Bank		WILL1000LB
411539.8	4608934.8	1000	Right Bank		WILL1000RB
411561.5	4608780.9	1500		1/4	WILL15001/4
411548.8	4608784.8	1500		1/2	WILL15001/2
411536.0	4608785.9	1500		3/4	WILL15003/4
411573.8	4608783.1	1500	Left Bank		WILL1500LB
411526.0	4608786.9	1500	Right Bank		WILL1500RB
411542.3	4608570.2	2200		1/4	WILL22001/4
411529.8	4608570.2	2200		1/2	WILL22001/2
411517.9	4608570.5	2200		3/4	WILL22003/4
411554.9	4608570.4	2200	Left Bank		WILL2200LB
411508.2	4608570.9	2200	Right Bank		WILL2200RB
411518.9	4608331.0	3000		1/4	WILL30001/4
411507.1	4608330.4	3000		1/2	WILL30001/2
411495.7	4608330.6	3000		3/4	WILL30003/4
411531.7	4608328.9	3000	Left Bank		WILL3000LB
411486.6	4608330.7	3000	Right Bank		WILL3000RB
411492.9	4608024.4	4000		1/4	WILL40001/4
411478.8	4608026.0	4000		1/2	WILL40001/2
411465.6	4608025.9	4000		3/4	WILL40003/4
411504.2	4608024.8	4000	Left Bank		WILL4000LB
411455.8	4608026.7	4000	Right Bank		WILL4000RB
411460.6	4607721.2	5000		1/4	WILL50001/4
411450.8	4607721.3	5000		1/2	WILL50001/2
411438.6	4607721.5	5000		3/4	WILL50003/4
411475.6	4607720.8	5000	Left Bank		WILL5000LB
411429.4	4607721.8	5000	Right Bank		WILL5000RB

