

Appendix 5C

Sample Output files for Air
Dispersion Models

Sample Computer Output of FDM Calculations

Dusty Construction Activities-TSP

1 FDM - (DATED 93070)
 IBM-PC VERSION (1.10)
 (C) COPYRIGHT 1991-1995, TRINITY CONSULTANTS, INC.
 DATE AT START OF RUN: 01/17/02 TIME AT START OF RUN: 18:53:26.05
 RUN TITLE:
 CLS - working hours 1.5m above ground
 INPUT FILE NAME: gd_m.dat
 OUTPUT FILE NAME: gd_m.lst

CONVERGENCE OPTION 1=OFF, 2=ON 1
 MET OPTION SWITCH, 1=CARDS, 2=PREPROCESSED 1
 PLOT FILE OUTPUT, 1=NO, 2=YES 1
 MET DATA PRINT SWITCH, 1=NO, 2=YES 1
 POST-PROCESSOR OUTPUT, 1=NO, 2=YES 1
 DEP. VEL./GRAV. SETTL. VEL., 1=DEFAULT, 2=USER 1
 PRINT 1-HOUR AVERAGE CONCEN, 1=NO, 2=YES 3
 PRINT 3-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
 PRINT 8-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
 PRINT 24-HOUR AVERAGE CONCEN, 1=NO, 2=YES 3
 PRINT LONG-TERM AVERAGE CONCEN, 1=NO, 2=YES 1
 BYPASS RAMMET CALMS RECOGNITION, 1=NO, 2=YES 1
 READ HOURLY EMISSION RATES, 1=NO, 2=YES 0
 NUMBER OF SOURCES PROCESSED 100
 NUMBER OF RECEPTORS PROCESSED 9
 NUMBER OF PARTICLE SIZE CLASSES 9
 NUMBER OF HOURS OF MET DATA PROCESSED 8760
 LENGTH IN MINUTES OF 1-HOUR OF MET DATA 60.
 ROUGHNESS LENGTH IN CM 100.00
 SCALING FACTOR FOR SOURCE AND RECEPTORS 1.0000
 PARTICLE DENSITY IN G/CM**3 2.50
 ANEMOMETER HEIGHT IN M 98.50

GENERAL PARTICLE SIZE CLASS INFORMATION

PARTICLE SIZE CLASS	CHAR. DIA. (UM)	GRAV. SETTLING VELOCITY (M/SEC)	DEPOSITION VELOCITY (M/SEC)	FRACTION IN EACH CLASS
1	0.5000000	**	**	0.0400
2	1.5000000	**	**	0.0700
3	2.2500000	**	**	0.0400
4	2.7500000	**	**	0.0300
5	3.5000000	**	**	0.0700
6	4.5000000	**	**	0.0500
7	5.5000000	**	**	0.0400
8	8.0000000	**	**	0.1700
9	20.0000000	**	**	0.4900

** COMPUTED BY FDM

RECEPTOR COORDINATES (X,Y,Z)

(22306., 20179., 5.) (21493., 19396.,140.) (21436., 20164.,180.)
 (21087., 20848.,120.) (20544., 21462., 15.) (20000., 18200., 5.)
 (22500., 17000., 5.) (22480., 22330., 48.) (22293., 22414., 7.)

SOURCE INFORMATION

TYPE	ENTERED EMIS. RATE (G/SEC/M OR G/SEC/M**2)	TOTAL EMISSION RATE (G/SEC)	WIND SPEED FAC.	X1 (M)	Y1 (M)	X2 (M)	Y2 (M)	HEIGHT (M)	WIDTH (M)
3	0.000000127	0.00022	0.000	21535.	20903.	41.	42.	5.00	32.46
3	0.000000571	0.00022	0.000	21564.	20922.	24.	16.	5.00	35.37
3	0.000000226	0.00022	0.000	21589.	20909.	51.	19.	5.00	34.92
3	0.000000034	0.00022	0.000	21592.	20862.	133.	48.	5.00	32.73
3	0.000000099	0.00022	0.000	21588.	20781.	33.	67.	5.00	33.93
3	0.000000068	0.00022	0.000	21653.	20811.	43.	75.	5.00	33.99
3	0.000001050	0.00022	0.000	21706.	20868.	11.	19.	5.00	34.53
3	0.000000243	0.00023	0.000	21786.	20760.	21.	43.	5.00	46.50
3	0.000000196	0.00022	0.000	21824.	20747.	20.	56.	5.00	1.38
3	0.000000166	0.00022	0.000	21899.	20821.	55.	24.	5.00	37.80
3	0.000000075	0.00022	0.000	21951.	20874.	68.	43.	5.00	39.33
3	0.000000095	0.00022	0.000	21988.	20807.	48.	48.	5.00	37.47
3	0.000000081	0.00022	0.000	22015.	20710.	41.	66.	5.00	44.90
3	0.000000072	0.00022	0.000	22076.	20666.	71.	43.	5.00	43.85
3	0.000000855	0.00605	0.000	21551.	20906.	117.	60.	5.00	33.53
3	0.000000216	0.00605	0.000	21637.	20830.	180.	156.	5.00	34.53
3	0.000001704	0.00605	0.000	21769.	20784.	51.	70.	5.00	39.85

3	0.00000802	0.00605	0.000	21845.	20724.	63.	120.	5.00	39.13
3	0.00001003	0.00605	0.000	21894.	20750.	42.	143.	5.00	40.92
3	0.00000216	0.00605	0.000	21978.	20809.	162.	173.	5.00	44.61
3	0.00000105	0.00605	0.000	22170.	20611.	155.	371.	5.00	44.09
3	0.00000211	0.00605	0.000	22363.	20412.	156.	184.	5.00	44.09
3	0.00000044	0.00091	0.000	21813.	20875.	135.	153.	5.00	89.99
3	0.00000077	0.00090	0.000	22131.	20812.	56.	210.	5.00	45.44
3	0.00000000	0.00000	0.000	21813.	20875.	135.	153.	5.00	89.99
3	0.00000000	0.00000	0.000	22131.	20812.	56.	210.	5.00	45.44
2	0.000071809	0.01427	0.000	21415.	21230.	21466.	21038.	5.00	3.00
2	0.000071809	0.00379	0.000	21466.	21038.	21497.	20995.	5.00	3.00
2	0.000071809	0.01821	0.000	21497.	20995.	21651.	20794.	5.00	3.00
2	0.000071809	0.02705	0.000	21651.	20794.	21665.	20418.	5.00	3.00
2	0.000071809	0.04408	0.000	21665.	20418.	21921.	19860.	5.00	3.00
2	0.000071809	0.01871	0.000	21921.	19860.	22053.	20085.	5.00	3.00
2	0.000071809	0.02985	0.000	22053.	20085.	22162.	20486.	5.00	3.00
2	0.000071809	0.00885	0.000	22162.	20486.	22194.	20605.	5.00	3.00
2	0.000071809	0.01257	0.000	21643.	20924.	21753.	20788.	5.00	3.00
2	0.000071809	0.00680	0.000	21753.	20788.	21847.	20778.	5.00	3.00
2	0.000071809	0.01309	0.000	21847.	20778.	22029.	20775.	5.00	3.00
2	0.000071809	0.01718	0.000	22029.	20779.	22194.	20605.	5.00	3.00
2	0.000143617	0.02854	0.000	21415.	21230.	21466.	21038.	5.00	3.00
2	0.000143617	0.00758	0.000	21466.	21038.	21497.	20995.	5.00	3.00
2	0.000143617	0.03642	0.000	21497.	20995.	21651.	20794.	5.00	3.00
2	0.000143617	0.05411	0.000	21651.	20794.	21665.	20418.	5.00	3.00
2	0.000143617	0.08816	0.000	21665.	20418.	21921.	19860.	5.00	3.00
2	0.000143617	0.03742	0.000	21921.	19860.	22053.	20085.	5.00	3.00
2	0.000143617	0.05971	0.000	22053.	20085.	22162.	20486.	5.00	3.00
2	0.000143617	0.01770	0.000	22162.	20486.	22194.	20605.	5.00	3.00
2	0.000143617	0.02514	0.000	21643.	20924.	21753.	20788.	5.00	3.00
2	0.000143617	0.01360	0.000	21753.	20788.	21847.	20778.	5.00	3.00
2	0.000143617	0.02617	0.000	21847.	20778.	22029.	20775.	5.00	3.00
2	0.000143617	0.03437	0.000	22029.	20779.	22194.	20605.	5.00	3.00
2	0.000251330	0.00733	0.000	22262.	22381.	22245.	22357.	5.00	3.00
2	0.000251330	0.01502	0.000	22245.	22357.	22241.	22298.	5.00	3.00
2	0.000251330	0.02154	0.000	22241.	22298.	22209.	22218.	5.00	3.00
2	0.000251330	0.02397	0.000	22209.	22218.	22132.	22163.	5.00	3.00
2	0.000251330	0.00730	0.000	22132.	22163.	22104.	22172.	5.00	3.00
2	0.000251330	0.01859	0.000	22104.	22172.	22032.	22156.	5.00	3.00
2	0.000251330	0.01111	0.000	22032.	22156.	22003.	22123.	5.00	3.00
2	0.000251330	0.00645	0.000	22003.	22123.	21978.	22115.	5.00	3.00
2	0.000251330	0.00790	0.000	21978.	22115.	21947.	22116.	5.00	3.00
2	0.000251330	0.07163	0.000	21947.	22116.	21699.	21976.	5.00	3.00
2	0.000251330	0.02728	0.000	21701.	21976.	21607.	21923.	5.00	3.00
2	0.000251330	0.03151	0.000	21607.	21923.	21501.	21856.	5.00	3.00
2	0.000251330	0.03213	0.000	21501.	21856.	21401.	21776.	5.00	3.00
2	0.000251330	0.02511	0.000	21401.	21776.	21465.	21699.	5.00	3.00
2	0.000251330	0.01703	0.000	21465.	21699.	21436.	21638.	5.00	3.00
2	0.000251330	0.02004	0.000	21436.	21638.	21389.	21573.	5.00	3.00
2	0.000251330	0.01511	0.000	21389.	21573.	21364.	21519.	5.00	3.00
2	0.000251330	0.01564	0.000	21364.	21519.	21350.	21458.	5.00	3.00
2	0.000251330	0.01458	0.000	21350.	21458.	21348.	21400.	5.00	3.00
2	0.000251330	0.01519	0.000	21349.	21399.	21360.	21340.	5.00	3.00
2	0.000251330	0.02036	0.000	21360.	21340.	21392.	21266.	5.00	3.00
2	0.000251330	0.02062	0.000	21392.	21266.	21536.	21000.	5.00	3.00
2	0.000251330	0.07612	0.000	21392.	21266.	21536.	21000.	5.00	3.00
2	0.000251330	0.02866	0.000	21536.	21000.	21603.	20907.	5.00	3.00
2	0.000251330	0.01802	0.000	21603.	20907.	21650.	20853.	5.00	3.00
2	0.000251330	0.01715	0.000	21650.	20853.	21699.	20806.	5.00	3.00
2	0.000251330	0.01809	0.000	21700.	20806.	21761.	20767.	5.00	3.00
2	0.000251330	0.02339	0.000	21761.	20767.	21849.	20738.	5.00	3.00
2	0.000251330	0.05174	0.000	21849.	20738.	22055.	20722.	5.00	3.00
2	0.000251330	0.01928	0.000	22055.	20722.	22130.	20706.	5.00	3.00
2	0.000251330	0.01297	0.000	22130.	20706.	22174.	20680.	5.00	3.00
2	0.000251330	0.01371	0.000	22174.	20680.	22208.	20637.	5.00	3.00
2	0.000251330	0.02362	0.000	22208.	20637.	22233.	20547.	5.00	3.00
2	0.000251330	0.01221	0.000	22233.	20547.	22257.	20505.	5.00	3.00
2	0.000251330	0.01128	0.000	22257.	20505.	22244.	20462.	5.00	3.00
2	0.000251330	0.01187	0.000	22244.	20462.	22204.	20437.	5.00	3.00
2	0.000251330	0.03260	0.000	22245.	22357.	22359.	22420.	5.00	3.00
2	0.000251330	0.01553	0.000	22359.	22420.	22406.	22460.	5.00	3.00
2	0.000251330	0.01161	0.000	22406.	22460.	22440.	22492.	5.00	3.00
1	0.002541947	0.00254	0.000	22440.	22492.	0.	0.	5.00	0.00
1	0.000907838	0.00091	0.000	22031.	20764.	0.	0.	5.00	0.00
3	0.000001348	0.00954	0.000	21551.	20906.	117.	60.	5.00	33.53
3	0.000001348	0.03776	0.000	21637.	20830.	180.	156.	5.00	34.53
3	0.000001348	0.00479	0.000	21769.	20784.	51.	70.	5.00	39.85
3	0.000001348	0.01017	0.000	21845.	20724.	63.	120.	5.00	39.13
3	0.000001348	0.00813	0.000	21894.	20750.	42.	143.	5.00	40.92
3	0.000001348	0.03781	0.000	21978.	20809.	162.	173.	5.00	44.61
3	0.000001348	0.07757	0.000	22170.	20611.	155.	371.	5.00	44.09
3	0.000001348	0.03858	0.000	22363.	20412.	156.	184.	5.00	44.09
3	0.000001348	0.02784	0.000	21813.	20875.	135.	153.	5.00	89.99
3	0.000001348	0.01576	0.000	22131.	20812.	56.	210.	5.00	45.44

TOTAL EMISSIONS 0.17908E+01 GRAMS/SEC

LONG DISTANCE (50,000 M) MASS CONSERVATION CORRECTION FACTORS USED

1
TOP 50 TABLE FOR 1 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
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1	9	22293.0	22414.4	3647	120.8793	1.6266
2	9	22293.0	22414.4	5262	118.9862	1.5986
3	9	22293.0	22414.4	3115	117.0220	1.5495
4	9	22293.0	22414.4	6750	117.0208	1.5575
5	9	22293.0	22414.4	4488	115.6963	1.5749
6	9	22293.0	22414.4	2589	114.7301	1.5967
7	9	22293.0	22414.4	4422	114.3100	1.5179
8	9	22293.0	22414.4	5334	111.8944	1.5222
9	9	22293.0	22414.4	8251	109.5976	1.4627
10	9	22293.0	22414.4	1581	109.5954	1.4778
11	9	22293.0	22414.4	764	106.9834	1.4360
12	9	22293.0	22414.4	5542	106.9807	1.4542
13	9	22293.0	22414.4	594	100.7127	1.3359
14	9	22293.0	22414.4	6027	97.7720	1.6221
15	9	22293.0	22414.4	4018	96.6452	1.6077
16	9	22293.0	22414.4	117	96.4210	1.2587
17	9	22293.0	22414.4	5834	91.4783	1.4996
18	9	22293.0	22414.4	3142	90.8194	1.5329
19	9	22293.0	22414.4	4412	89.3834	1.5400
20	9	22293.0	22414.4	2060	88.1514	1.4815
21	9	22293.0	22414.4	6067	87.6925	1.2921
22	9	22293.0	22414.4	6050	87.4976	1.4538
23	9	22293.0	22414.4	1509	85.9425	1.0691
24	9	22293.0	22414.4	6139	85.9390	1.0935
25	9	22293.0	22414.4	6666	84.2081	1.1065
26	9	22293.0	22414.4	4435	83.9588	1.4761
27	9	22293.0	22414.4	3744	83.0117	1.4749
28	1	22306.0	20179.0	3675	81.9794	1.0974
29	1	22306.0	20179.0	6099	81.9789	1.1002
30	1	22306.0	20179.0	6100	81.6184	1.0998
31	1	22306.0	20179.0	4417	80.6522	1.0879
32	1	22306.0	20179.0	5879	80.6517	1.0906
33	9	22293.0	22414.4	6026	78.6547	1.4353
34	1	22306.0	20179.0	426	77.2785	0.9912
35	9	22293.0	22414.4	4992	75.3566	0.9341
36	9	22293.0	22414.4	116	74.9215	0.9375
37	9	22293.0	22414.4	6028	74.9174	0.9640
38	9	22293.0	22414.4	4534	73.9726	1.3375
39	9	22293.0	22414.4	1512	73.3347	0.9389
40	1	22306.0	20179.0	550	73.0192	0.9272
41	1	22306.0	20179.0	1516	73.0192	0.9272
42	9	22293.0	22414.4	4064	72.0819	1.2976
43	1	22306.0	20179.0	2692	70.3762	0.9547
44	1	22306.0	20179.0	6773	70.3754	0.9595
45	9	22293.0	22414.4	6116	70.0492	0.8930
46	9	22293.0	22414.4	4080	68.9276	1.1554
47	1	22306.0	20179.0	6746	68.3789	1.0387
48	9	22293.0	22414.4	6068	67.6492	1.2656
49	1	22306.0	20179.0	7301	66.4401	0.9049
50	1	22306.0	20179.0	8226	66.2100	0.8250

1 HIGHEST AND SECOND HIGHEST VALUES FOR 1 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSITION
1	22306.0	20179.0	81.9794	3675.	1.0974	81.9789	6099.	1.1002
2	21493.0	19396.0	1.5676	8674.	0.0276	1.4881	2242.	0.0332
3	21436.0	20164.0	1.6214	1306.	0.0313	1.2127	2193.	0.0237
4	21087.0	20848.0	3.3811	4116.	0.0612	2.7478	5937.	0.0499
5	20544.0	21462.0	31.7940	6667.	0.2038	30.9628	5683.	0.1950
6	20000.0	18200.0	11.1570	6647.	0.0552	11.1561	7293.	0.0556
7	22500.0	17000.0	14.4460	7301.	0.0689	14.2432	2692.	0.0673
8	22480.3	22330.3	5.8562	4080.	0.0519	5.8560	5834.	0.0467
9	22293.0	22414.4	120.8793	3647.	1.6266	118.9862	5262.	1.5986

1 TOP 50 TABLE FOR 24 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	9	22293.0	22414.4	6072	23.2053	0.4887
2	9	22293.0	22414.4	2592	22.1326	0.6611
3	9	22293.0	22414.4	5808C	19.6843	0.6797
4	9	22293.0	22414.4	3888	19.3114	0.6540
5	9	22293.0	22414.4	4680	18.6891	0.5434
6	9	22293.0	22414.4	600	18.6136	0.3620
7	9	22293.0	22414.4	120	18.5965	0.3301
8	9	22293.0	22414.4	4080	18.4757	0.4351
9	9	22293.0	22414.4	4632	18.3463	0.6593
10	9	22293.0	22414.4	4872	18.2705	0.4165
11	9	22293.0	22414.4	6144	17.9442	0.3590
12	9	22293.0	22414.4	4608	17.9114	0.7270
13	9	22293.0	22414.4	4056	17.8899	0.5628
14	9	22293.0	22414.4	1512	17.6023	0.3290
15	9	22293.0	22414.4	4584	17.4778	0.7409
16	9	22293.0	22414.4	5280	17.2939	0.5755
17	9	22293.0	22414.4	5472	16.8462	0.4776
18	9	22293.0	22414.4	2616	16.7252	0.3044
19	9	22293.0	22414.4	4320	16.5414	0.6634
20	9	22293.0	22414.4	4656	16.5050	0.5138

21	9	22293.0	22414.4	4440	16.4289	0.3888
22	9	22293.0	22414.4	3456	16.3369	0.6488
23	9	22293.0	22414.4	3648C	16.3149	0.3484
24	9	22293.0	22414.4	5688	16.2527	0.4700
25	9	22293.0	22414.4	3984	15.8757	0.5086
26	9	22293.0	22414.4	4728	15.7661	0.6299
27	9	22293.0	22414.4	5544C	15.7614	0.3503
28	9	22293.0	22414.4	4368	15.7328	0.4795
29	1	22306.0	20179.0	8472C	15.4473	0.2688
30	9	22293.0	22414.4	6048C	15.2550	0.2460
31	9	22293.0	22414.4	4752	15.1938	0.6572
32	9	22293.0	22414.4	3432	15.0272	0.4200
33	9	22293.0	22414.4	5496	14.9364	0.5444
34	9	22293.0	22414.4	4560	14.9361	0.5646
35	9	22293.0	22414.4	5352	14.8397	0.4675
36	9	22293.0	22414.4	2064	14.8138	0.3420
37	9	22293.0	22414.4	4296	14.7923	0.5897
38	9	22293.0	22414.4	4032C	14.6870	0.3396
39	9	22293.0	22414.4	3480	14.5644	0.6869
40	9	22293.0	22414.4	1128	14.4193	0.2608
41	9	22293.0	22414.4	2568	14.4096	0.5378
42	9	22293.0	22414.4	8256	14.3866	0.2733
43	9	22293.0	22414.4	4272	14.3563	0.5680
44	9	22293.0	22414.4	3288	14.2694	0.6803
45	9	22293.0	22414.4	3144	14.0080	0.3045
46	9	22293.0	22414.4	3960	13.7941	0.5236
47	1	22306.0	20179.0	8496C	13.7507	0.2392
48	9	22293.0	22414.4	6120C	13.6189	0.2850
49	9	22293.0	22414.4	2952	13.2875	0.3368
50	9	22293.0	22414.4	6264C	13.2100	0.4522

1 HIGHEST AND SECOND HIGHEST VALUES FOR 24 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSITION
1	22306.0	20179.0	15.4473	8472.C	0.2688	13.7507	8496.C	0.2392
2	21493.0	19396.0	0.8848	8472.C	0.0065	0.5511	8496.C	0.0042
3	21436.0	20164.0	0.1495	384.	0.0047	0.1452	1296.C	0.0046
4	21087.0	20848.0	0.4971	5952.	0.0137	0.3761	528.	0.0123
5	20544.0	21462.0	4.8871	648.	0.0922	3.9922	7176.	0.0804
6	20000.0	18200.0	1.6858	552.	0.0213	1.4368	144.	0.0239
7	22500.0	17000.0	1.4720	8496.C	0.0160	1.0074	288.C	0.0290
8	22480.3	22330.3	1.8034	4632.	0.0610	1.8033	4680.	0.0472
9	22293.0	22414.4	23.2053	6072.	0.4887	22.1326	2592.	0.6611

DATE AT END OF RUN: 01/17/02 TIME AT END OF RUN: 19:17:37.02
ELAPSED TIME FOR THIS RUN: 0.14510E+04 SECONDS
OR 0 HOURS 24 MINUTES 10.97 SECONDS

Handling of general Contaminated Soil-Cr6+

1 EDM - (DATED 93070)
IBM-PC VERSION (1.10)
(C) COPYRIGHT 1991-1995, TRINITY CONSULTANTS, INC.
DATE AT START OF RUN: 02/05/02 TIME AT START OF RUN: 11:56:32.87

RUN TITLE:
CLS - working hours 1.5m above ground

INPUT FILE NAME: Gd_u_cr.DAT
OUTPUT FILE NAME: Gd_u_cr.LST

CONVERGENCE OPTION 1=OFF, 2=ON 1
MET OPTION SWITCH, 1=CARDS, 2=PREPROCESSED 1
PLOT FILE OUTPUT, 1=NO, 2=YES 1
MET DATA PRINT SWITCH, 1=NO, 2=YES 1
POST-PROCESSOR OUTPUT, 1=NO, 2=YES 1
DEP. VEL./GRAV. SETTL. VEL., 1=DEFAULT, 2=USER 1
PRINT 1-HOUR AVERAGE CONCEN, 1=NO, 2=YES 3
PRINT 3-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
PRINT 8-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
PRINT 24-HOUR AVERAGE CONCEN, 1=NO, 2=YES 3
PRINT LONG-TERM AVERAGE CONCEN, 1=NO, 2=YES 1
BYPASS RAMMET CALMS RECOGNITION, 1=NO, 2=YES 1
READ HOURLY EMISSION RATES, 1=NO, 2=YES 0
NUMBER OF SOURCES PROCESSED 1
NUMBER OF RECEPTORS PROCESSED 9
NUMBER OF PARTICLE SIZE CLASSES 9
NUMBER OF HOURS OF MET DATA PROCESSED 8760
LENGTH IN MINUTES OF 1-HOUR OF MET DATA 60.
ROUGHNESS LENGTH IN CM 100.00
SCALING FACTOR FOR SOURCE AND RECEPTORS 1.0000
PARTICLE DENSITY IN G/CM**3 2.50
ANEMOMETER HEIGHT IN M 98.50

GENERAL PARTICLE SIZE CLASS INFORMATION

PARTICLE SIZE CLASS	CHAR. DIA. (UM)	GRAV. SETTLING VELOCITY (M/SEC)	DEPOSITION VELOCITY (M/SEC)	FRACTION IN EACH SIZE CLASS
1	0.5000000	**	**	0.0400
2	1.5000000	**	**	0.0700
3	2.2500000	**	**	0.0400
4	2.7500000	**	**	0.0300
5	3.5000000	**	**	0.0700
6	4.5000000	**	**	0.0500
7	5.5000000	**	**	0.0400
8	8.0000000	**	**	0.1700
9	20.0000000	**	**	0.4900

** COMPUTED BY FDM

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RECEPTOR COORDINATES (X,Y,Z)

(22306., 20179., 5.) (21493., 19396.,140.) (21436., 20164.,180.)
 (21087., 20848.,120.) (20544., 21462., 15.) (20000., 18200., 5.)
 (22500., 17000., 5.) (22480., 22330., 48.) (22293., 22414., 7.)

1

SOURCE INFORMATION

TYPE	ENTERED EMIS. RATE (G/SEC, G/SEC/M OR G/SEC/M**2)	TOTAL EMISSION RATE (G/SEC)	WIND SPEED FAC.	X1 (M)	Y1 (M)	X2 (M)	Y2 (M)	HEIGHT (M)	WIDTH (M)
1	0.000996000	0.00100	0.000	22440.	22492.	0.	0.	5.00	0.00

TOTAL EMISSIONS 0.99600E-03 GRAMS/SEC

LONG DISTANCE (50,000 M) MASS CONSERVATION CORRECTION FACTORS USED

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TOP 50 TABLE FOR 1 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	9	22293.0	22414.4	6115	1.1068	0.0153
2	9	22293.0	22414.4	6385	1.1002	0.0151
3	9	22293.0	22414.4	1128	1.0742	0.0145
4	9	22293.0	22414.4	982	1.0737	0.0146
5	9	22293.0	22414.4	5858	1.0583	0.0146
6	9	22293.0	22414.4	2062	1.0151	0.0139
7	9	22293.0	22414.4	7875	0.9803	0.0141
8	9	22293.0	22414.4	1101	0.9402	0.0140
9	9	22293.0	22414.4	4398	0.9128	0.0126
10	9	22293.0	22414.4	8253	0.8818	0.0133
11	9	22293.0	22414.4	1324	0.8195	0.0111
12	9	22293.0	22414.4	649	0.8194	0.0111
13	9	22293.0	22414.4	1565	0.8192	0.0112
14	9	22293.0	22414.4	985	0.7171	0.0097
15	9	22293.0	22414.4	740	0.6419	0.0101
16	9	22293.0	22414.4	6581	0.6340	0.0105
17	9	22293.0	22414.4	7944	0.6305	0.0102
18	9	22293.0	22414.4	6916	0.6227	0.0103
19	9	22293.0	22414.4	3196	0.6175	0.0099
20	9	22293.0	22414.4	523	0.6123	0.0083
21	9	22293.0	22414.4	6054	0.6114	0.0084
22	9	22293.0	22414.4	3151	0.6040	0.0099
23	9	22293.0	22414.4	1350	0.5647	0.0095
24	9	22293.0	22414.4	1327	0.5610	0.0096
25	9	22293.0	22414.4	3310	0.5561	0.0089
26	9	22293.0	22414.4	7225	0.5474	0.0083
27	9	22293.0	22414.4	1328	0.5423	0.0094
28	9	22293.0	22414.4	1367	0.5376	0.0092
29	9	22293.0	22414.4	8331	0.5302	0.0089
30	9	22293.0	22414.4	7224	0.4882	0.0088
31	9	22293.0	22414.4	5095	0.4820	0.0082
32	9	22293.0	22414.4	453	0.4696	0.0082
33	9	22293.0	22414.4	8231	0.4632	0.0081
34	9	22293.0	22414.4	8736	0.4597	0.0082
35	9	22293.0	22414.4	896	0.4559	0.0083
36	9	22293.0	22414.4	1129	0.4524	0.0077
37	9	22293.0	22414.4	8623	0.4522	0.0077
38	9	22293.0	22414.4	1543	0.4477	0.0068
39	9	22293.0	22414.4	2373	0.4448	0.0076
40	9	22293.0	22414.4	2377	0.4342	0.0073
41	9	22293.0	22414.4	1368	0.4240	0.0064
42	9	22293.0	22414.4	918	0.4117	0.0079
43	9	22293.0	22414.4	3725	0.4103	0.0071
44	9	22293.0	22414.4	934	0.4099	0.0078
45	9	22293.0	22414.4	8234	0.4036	0.0078
46	9	22293.0	22414.4	894	0.4026	0.0077
47	9	22293.0	22414.4	8760	0.4002	0.0066

48	9	22293.0	22414.4	981	0.3966	0.0071
49	9	22293.0	22414.4	238	0.3774	0.0076
50	9	22293.0	22414.4	502	0.3734	0.0072

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HIGHEST AND SECOND HIGHEST VALUES FOR 1 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSITION
1	22306.0	20179.0	0.0142	6029.	0.0001	0.0136	4897.	0.0001
2	21493.0	19396.0	0.0009	346.	0.0000	0.0009	8577.	0.0000
3	21436.0	20164.0	0.0006	423.	0.0000	0.0005	8698.	0.0000
4	21087.0	20848.0	0.0015	4424.	0.0000	0.0013	425.	0.0000
5	20544.0	21462.0	0.0155	6385.	0.0001	0.0149	5858.	0.0001
6	20000.0	18200.0	0.0042	630.	0.0000	0.0042	2691.	0.0000
7	22500.0	17000.0	0.0035	6053.	0.0000	0.0035	6079.	0.0000
8	22480.3	22330.3	0.0292	5529.	0.0006	0.0216	8031.	0.0005
9	22293.0	22414.4	1.1068	6115.	0.0153	1.1002	6385.	0.0151

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TOP 50 TABLE FOR 24 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	9	22293.0	22414.4	936	0.1101	0.0024
2	9	22293.0	22414.4	8256	0.0948	0.0018
3	9	22293.0	22414.4	984	0.0897	0.0016
4	9	22293.0	22414.4	912	0.0847	0.0019
5	9	22293.0	22414.4	1344	0.0834	0.0013
6	9	22293.0	22414.4	1368	0.0772	0.0014
7	9	22293.0	22414.4	1152	0.0711	0.0016
8	9	22293.0	22414.4	7896C	0.0692	0.0010
9	9	22293.0	22414.4	6408	0.0675	0.0014
10	9	22293.0	22414.4	6936	0.0673	0.0015
11	9	22293.0	22414.4	528	0.0652	0.0015
12	9	22293.0	22414.4	1104	0.0619	0.0012
13	9	22293.0	22414.4	960	0.0614	0.0016
14	9	22293.0	22414.4	3576	0.0587	0.0018
15	9	22293.0	22414.4	120	0.0583	0.0012
16	9	22293.0	22414.4	6120C	0.0578	0.0008
17	9	22293.0	22414.4	888	0.0569	0.0015
18	9	22293.0	22414.4	3048	0.0564	0.0017
19	9	22293.0	22414.4	3168	0.0561	0.0011
20	9	22293.0	22414.4	1128	0.0551	0.0008
21	9	22293.0	22414.4	5880	0.0523	0.0008
22	9	22293.0	22414.4	6648	0.0503	0.0015
23	9	22293.0	22414.4	864	0.0498	0.0018
24	9	22293.0	22414.4	8664	0.0494	0.0017
25	9	22293.0	22414.4	3072	0.0493	0.0020
26	9	22293.0	22414.4	2064	0.0493	0.0009
27	9	22293.0	22414.4	672	0.0492	0.0009
28	9	22293.0	22414.4	2352	0.0485	0.0013
29	9	22293.0	22414.4	480C	0.0483	0.0010
30	9	22293.0	22414.4	8736	0.0482	0.0009
31	9	22293.0	22414.4	744	0.0481	0.0010
32	9	22293.0	22414.4	1080	0.0467	0.0016
33	9	22293.0	22414.4	576	0.0465	0.0010
34	9	22293.0	22414.4	4968	0.0464	0.0024
35	9	22293.0	22414.4	600	0.0462	0.0011
36	9	22293.0	22414.4	8640	0.0453	0.0010
37	9	22293.0	22414.4	1800	0.0446	0.0012
38	9	22293.0	22414.4	7224	0.0438	0.0010
39	9	22293.0	22414.4	3216	0.0424	0.0007
40	9	22293.0	22414.4	1584	0.0423	0.0006
41	9	22293.0	22414.4	2376	0.0420	0.0009
42	9	22293.0	22414.4	1056	0.0415	0.0012
43	9	22293.0	22414.4	96	0.0410	0.0010
44	9	22293.0	22414.4	720	0.0407	0.0014
45	9	22293.0	22414.4	4416	0.0385	0.0005
46	9	22293.0	22414.4	2472	0.0382	0.0010
47	9	22293.0	22414.4	8232	0.0380	0.0008
48	9	22293.0	22414.4	8352	0.0374	0.0009
49	9	22293.0	22414.4	7584	0.0374	0.0011
50	9	22293.0	22414.4	3744	0.0364	0.0007

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HIGHEST AND SECOND HIGHEST VALUES FOR 24 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSITION
1	22306.0	20179.0	0.0037	8472.C	0.0000	0.0027	8496.C	0.0000
2	21493.0	19396.0	0.0007	8472.C	0.0000	0.0004	8592.	0.0000
3	21436.0	20164.0	0.0002	8472.C	0.0000	0.0001	8592.	0.0000
4	21087.0	20848.0	0.0003	7008.	0.0000	0.0003	1728.	0.0000
5	20544.0	21462.0	0.0014	936.	0.0000	0.0012	8256.	0.0000

6	20000.0	18200.0	0.0004	144.	0.0000	0.0003	648.	0.0000
7	22500.0	17000.0	0.0006	8472.C	0.0000	0.0006	8496.C	0.0000
8	22480.3	22330.3	0.0023	8040.	0.0001	0.0016	6168.	0.0001
9	22293.0	22414.4	0.1101	936.	0.0024	0.0948	8256.	0.0018

DATE AT END OF RUN: 02/05/02 TIME AT END OF RUN: 11:57:04.40
 ELAPSED TIME FOR THIS RUN: 0.31530E+02 SECONDS
 OR 0 HOURS 0 MINUTES 31.53 SECONDS

Excavation-Dioxin

1 FDM - (DATED 93070)

IBM-PC VERSION (1.10)
 (C) COPYRIGHT 1991-1995, TRINITY CONSULTANTS, INC.

DATE AT START OF RUN: 01/18/02 TIME AT START OF RUN: 10:14:31.04
 RUN TITLE:
 Cheoy Lee Shipyard (27Dec01)

INPUT FILE NAME: DI-A10.DAT
 OUTPUT FILE NAME: DI.LST

CONVERGENCE OPTION 1=OFF, 2=ON 1
 MET OPTION SWITCH, 1=CARDS, 2=PREPROCESSED 1
 PLOT FILE OUTPUT, 1=NO, 2=YES 1
 MET DATA PRINT SWITCH, 1=NO, 2=YES 1
 POST-PROCESSOR OUTPUT, 1=NO, 2=YES 1
 DEP. VEL./GRAV. SETTL. VEL., 1=DEFAULT, 2=USER 1
 PRINT 1-HOUR AVERAGE CONCEN, 1=NO, 2=YES 3
 PRINT 8-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
 PRINT 24-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
 PRINT LONG-TERM AVERAGE CONCEN, 1=NO, 2=YES 3
 BYPASS RAMMET CALMS RECOGNITION, 1=NO, 2=YES 2
 READ HOURLY EMISSION RATES, 1=NO, 2=YES 0
 NUMBER OF SOURCES PROCESSED 1
 NUMBER OF RECEPTORS PROCESSED 10
 NUMBER OF PARTICLE SIZE CLASSES 9
 NUMBER OF HOURS OF MET DATA PROCESSED 36
 LENGTH IN MINUTES OF 1-HOUR OF MET DATA 60.
 ROUGHNESS LENGTH IN CM 100.00
 SCALING FACTOR FOR SOURCE AND RECEPTORS 1.0000
 PARTICLE DENSITY IN G/CM**3 2.50
 ANEMOMETER HEIGHT IN M 98.50

GENERAL PARTICLE SIZE CLASS INFORMATION

PARTICLE SIZE CLASS	CHAR. DIA. (UM)	GRAV. SETTLING VELOCITY (M/SEC)	DEPOSITION VELOCITY (M/SEC)	FRACTION IN EACH SIZE CLASS
1	0.5000000	**	**	0.0400
2	1.5000000	**	**	0.0700
3	2.2500000	**	**	0.0400
4	2.7500000	**	**	0.0300
5	3.5000000	**	**	0.0700
6	4.5000000	**	**	0.0500
7	5.5000000	**	**	0.0400
8	8.0000000	**	**	0.1700
9	20.0000000	**	**	0.4900

** COMPUTED BY FDM

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RECEPTOR COORDINATES (X,Y,Z)

(10., 0., 2.) (20., 0., 2.) (30., 0., 2.)
 (40., 0., 2.) (50., 0., 2.) (100., 0., 2.)
 (150., 0., 2.) (200., 0., 2.) (250., 0., 2.)
 (300., 0., 2.) (

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SOURCE INFORMATION

TYPE	ENTERED EMIS. RATE (G/SEC/M OR G/SEC/M**2)	TOTAL EMISSION RATE (G/SEC)	WIND SPEED FAC.	X1 (M)	Y1 (M)	X2 (M)	Y2 (M)	HEIGHT (M)	WIDTH (M)
3	0.000000662	0.00007	0.000	0.	0.	10.	10.	0.50	0.00
TOTAL EMISSIONS		0.66201E-04	GRAMS/SEC						

SHORT DISTANCE (5,000 M) MASS CONSERVATION CORRECTION FACTORS USED

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TOP 50 TABLE FOR 1 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	2	20.0	0.0	27	1.5469	0.0225
2	3	30.0	0.0	27	1.3033	0.0192

3	1	10.0	0.0	26	1.1954	0.0167
4	1	10.0	0.0	28	1.1954	0.0167
5	1	10.0	0.0	27	1.1543	0.0162
6	2	20.0	0.0	26	1.1542	0.0168
7	2	20.0	0.0	28	1.1542	0.0168
8	4	40.0	0.0	27	0.9916	0.0144
9	1	10.0	0.0	25	0.9152	0.0128
10	1	10.0	0.0	29	0.9152	0.0128
11	5	50.0	0.0	27	0.7463	0.0105
12	3	30.0	0.0	26	0.7434	0.0109
13	3	30.0	0.0	28	0.7434	0.0109
14	4	40.0	0.0	26	0.4825	0.0070
15	4	40.0	0.0	28	0.4825	0.0070
16	1	10.0	0.0	24	0.4789	0.0066
17	1	10.0	0.0	30	0.4789	0.0066
18	2	20.0	0.0	25	0.4022	0.0058
19	2	20.0	0.0	29	0.4022	0.0058
20	5	50.0	0.0	26	0.3286	0.0046
21	5	50.0	0.0	28	0.3286	0.0046
22	6	100.0	0.0	27	0.2492	0.0030
23	1	10.0	0.0	23	0.1634	0.0022
24	1	10.0	0.0	31	0.1634	0.0022
25	3	30.0	0.0	25	0.1282	0.0019
26	3	30.0	0.0	29	0.1282	0.0019
27	7	150.0	0.0	27	0.1218	0.0013
28	6	100.0	0.0	26	0.0880	0.0011
29	6	100.0	0.0	28	0.0880	0.0011
30	8	200.0	0.0	27	0.0719	0.0007
31	4	40.0	0.0	25	0.0527	0.0008
32	4	40.0	0.0	29	0.0527	0.0008
33	9	250.0	0.0	27	0.0479	0.0004
34	7	150.0	0.0	26	0.0390	0.0004
35	7	150.0	0.0	28	0.0390	0.0004
36	10	300.0	0.0	27	0.0344	0.0003
37	2	20.0	0.0	24	0.0266	0.0004
38	2	20.0	0.0	30	0.0266	0.0004
39	5	50.0	0.0	25	0.0261	0.0004
40	5	50.0	0.0	29	0.0261	0.0004
41	1	10.0	0.0	22	0.0232	0.0003
42	1	10.0	0.0	32	0.0232	0.0003
43	8	200.0	0.0	26	0.0216	0.0002
44	8	200.0	0.0	28	0.0216	0.0002
45	9	250.0	0.0	26	0.0137	0.0001
46	9	250.0	0.0	28	0.0137	0.0001
47	10	300.0	0.0	26	0.0094	0.0001
48	10	300.0	0.0	28	0.0094	0.0001
49	6	100.0	0.0	25	0.0033	0.0000
50	6	100.0	0.0	29	0.0033	0.0000

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HIGHEST AND SECOND HIGHEST VALUES FOR 1 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSITION
1	10.0	0.0	1.1954	26.	0.0167	1.1954	28.	0.0167
2	20.0	0.0	1.5469	27.	0.0225	1.1542	26.	0.0168
3	30.0	0.0	1.3033	27.	0.0192	0.7434	26.	0.0109
4	40.0	0.0	0.9916	27.	0.0144	0.4825	26.	0.0070
5	50.0	0.0	0.7463	27.	0.0105	0.3286	26.	0.0046
6	100.0	0.0	0.2492	27.	0.0030	0.0880	26.	0.0011
7	150.0	0.0	0.1218	27.	0.0013	0.0390	26.	0.0004
8	200.0	0.0	0.0719	27.	0.0007	0.0216	26.	0.0002
9	250.0	0.0	0.0479	27.	0.0004	0.0137	26.	0.0001
10	300.0	0.0	0.0344	27.	0.0003	0.0094	26.	0.0001

1

TOP 50 TABLE FOR LONG TERM AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	1	10.0	0.0	36	0.1863	0.0026
2	2	20.0	0.0	36	0.1309	0.0019
3	3	30.0	0.0	36	0.0848	0.0012
4	4	40.0	0.0	36	0.0573	0.0008
5	5	50.0	0.0	36	0.0404	0.0006
6	6	100.0	0.0	36	0.0120	0.0001
7	7	150.0	0.0	36	0.0056	0.0001
8	8	200.0	0.0	36	0.0032	0.0000
9	9	250.0	0.0	36	0.0021	0.0000
10	10	300.0	0.0	36	0.0015	0.0000
11	0	-0.1	0.0	0	0.0000	0.0000
12	0	-0.1	0.0	0	0.0000	0.0000
13	0	-0.1	0.0	0	0.0000	0.0000
14	0	-0.1	0.0	0	0.0000	0.0000
15	0	-0.1	0.0	0	0.0000	0.0000
16	0	-0.1	0.0	0	0.0000	0.0000
17	0	-0.1	0.0	0	0.0000	0.0000
18	0	-0.1	0.0	0	0.0000	0.0000
19	0	-0.1	0.0	0	0.0000	0.0000
20	0	-0.1	0.0	0	0.0000	0.0000

21	0	-0.1	0.0	0	0.0000	0.0000
22	0	-0.1	0.0	0	0.0000	0.0000
23	0	-0.1	0.0	0	0.0000	0.0000
24	0	-0.1	0.0	0	0.0000	0.0000
25	0	-0.1	0.0	0	0.0000	0.0000
26	0	-0.1	0.0	0	0.0000	0.0000
27	0	-0.1	0.0	0	0.0000	0.0000
28	0	-0.1	0.0	0	0.0000	0.0000
29	0	-0.1	0.0	0	0.0000	0.0000
30	0	-0.1	0.0	0	0.0000	0.0000
31	0	-0.1	0.0	0	0.0000	0.0000
32	0	-0.1	0.0	0	0.0000	0.0000
33	0	-0.1	0.0	0	0.0000	0.0000
34	0	-0.1	0.0	0	0.0000	0.0000
35	0	-0.1	0.0	0	0.0000	0.0000
36	0	-0.1	0.0	0	0.0000	0.0000
37	0	-0.1	0.0	0	0.0000	0.0000
38	0	-0.1	0.0	0	0.0000	0.0000
39	0	-0.1	0.0	0	0.0000	0.0000
40	0	-0.1	0.0	0	0.0000	0.0000
41	0	-0.1	0.0	0	0.0000	0.0000
42	0	-0.1	0.0	0	0.0000	0.0000
43	0	-0.1	0.0	0	0.0000	0.0000
44	0	-0.1	0.0	0	0.0000	0.0000
45	0	-0.1	0.0	0	0.0000	0.0000
46	0	-0.1	0.0	0	0.0000	0.0000
47	0	-0.1	0.0	0	0.0000	0.0000
48	0	-0.1	0.0	0	0.0000	0.0000
49	0	-0.1	0.0	0	0.0000	0.0000
50	0	-0.1	0.0	0	0.0000	0.0000

DATE AT END OF RUN: 01/18/02 TIME AT END OF RUN: 10:14:31.42
 ELAPSED TIME FOR THIS RUN: 0.38000E+00 SECONDS
 OR 0 HOURS 0 MINUTES 0.38 SECONDS

Excavation-Cr6+

1 FDM - (DATED 93070)
 IBM-PC VERSION (1.10)
 (C) COPYRIGHT 1991-1995, TRINITY CONSULTANTS, INC.
 DATE AT START OF RUN: 01/18/02 TIME AT START OF RUN: 10:14:31.70

RUN TITLE:
 Cheoy Lee Shipyard (27Dec01 Cr6 emission)

INPUT FILE NAME: CR6-B.DAT
 OUTPUT FILE NAME: CR6.LST

CONVERGENCE OPTION 1=OFF, 2=ON	1
MET OPTION SWITCH, 1=CARDS, 2=PREPROCESSED	1
PLOT FILE OUTPUT, 1=NO, 2=YES	1
MET DATA PRINT SWITCH, 1=NO, 2=YES	1
POST-PROCESSOR OUTPUT, 1=NO, 2=YES	1
DEP. VEL./GRAV. SETTL. VEL., 1=DEFAULT, 2=USER	1
PRINT 1-HOUR AVERAGE CONCEN, 1=NO, 2=YES	3
PRINT 3-HOUR AVERAGE CONCEN, 1=NO, 2=YES	1
PRINT 8-HOUR AVERAGE CONCEN, 1=NO, 2=YES	1
PRINT 24-HOUR AVERAGE CONCEN, 1=NO, 2=YES	1
PRINT LONG-TERM AVERAGE CONCEN, 1=NO, 2=YES	3
BYPASS RAMMET CALMS RECOGNITION, 1=NO, 2=YES	2
READ HOURLY EMISSION RATES, 1=NO, 2=YES	0
NUMBER OF SOURCES PROCESSED	1
NUMBER OF RECEPTORS PROCESSED	12
NUMBER OF PARTICLE SIZE CLASSES	9
NUMBER OF HOURS OF MET DATA PROCESSED	36
LENGTH IN MINUTES OF 1-HOUR OF MET DATA	60.
ROUGHNESS LENGTH IN CM	100.00
SCALING FACTOR FOR SOURCE AND RECEPTORS	1.0000
PARTICLE DENSITY IN G/CM**3	2.50
ANEMOMETER HEIGHT IN M	98.50

GENERAL PARTICLE SIZE CLASS INFORMATION

PARTICLE SIZE CLASS	GRAV. CHAR. DIA. (UM)	SETTLING VELOCITY (M/SEC)	DEPOSITION VELOCITY (M/SEC)	FRACTION IN EACH SIZE CLASS
1	0.5000000	**	**	0.0400
2	1.5000000	**	**	0.0700
3	2.2500000	**	**	0.0400
4	2.7500000	**	**	0.0300
5	3.5000000	**	**	0.0700
6	4.5000000	**	**	0.0500
7	5.5000000	**	**	0.0400
8	8.0000000	**	**	0.1700
9	20.0000000	**	**	0.4900

 ** COMPUTED BY FDM

1

RECEPTOR COORDINATES (X,Y,Z)

(10., 0., 2.) (20., 0., 2.) (30., 0., 2.)
 (40., 0., 2.) (50., 0., 2.) (100., 0., 2.)
 (150., 0., 2.) (200., 0., 2.) (250., 0., 2.)
 (300., 0., 2.) (400., 0., 2.) (450., 0., 2.)

1

SOURCE INFORMATION

TYPE	ENTERED EMIS. RATE (G/SEC, G/SEC/M OR G/SEC/M**2)	TOTAL EMISSION RATE (G/SEC)	WIND SPEED FAC.	X1 (M)	Y1 (M)	X2 (M)	Y2 (M)	HEIGHT (M)	WIDTH (M)
3	0.000237248	0.02372	0.000	0.	0.	10.	10.	0.50	0.00

TOTAL EMISSIONS 0.23725E-01 GRAMS/SEC

SHORT DISTANCE (5,000 M) MASS CONSERVATION CORRECTION FACTORS USED

1

TOP 50 TABLE FOR 1 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	2	20.0	0.0	27	554.3582	8.0567
2	3	30.0	0.0	27	467.0744	6.8645
3	1	10.0	0.0	26	428.4135	6.0020
4	1	10.0	0.0	28	428.4135	6.0020
5	1	10.0	0.0	27	413.6571	5.7952
6	2	20.0	0.0	26	413.6331	6.0117
7	2	20.0	0.0	28	413.6329	6.0117
8	4	40.0	0.0	27	355.3459	5.1519
9	1	10.0	0.0	25	327.9883	4.5915
10	1	10.0	0.0	29	327.9883	4.5915
11	5	50.0	0.0	27	267.4424	3.7582
12	3	30.0	0.0	26	266.3972	3.9151
13	3	30.0	0.0	28	266.3971	3.9151
14	4	40.0	0.0	26	172.9191	2.5083
15	4	40.0	0.0	28	172.9191	2.5083
16	1	10.0	0.0	24	171.6172	2.3751
17	1	10.0	0.0	30	171.6171	2.3751
18	2	20.0	0.0	25	144.1501	2.0910
19	2	20.0	0.0	29	144.1500	2.0910
20	5	50.0	0.0	26	117.7585	1.6568
21	5	50.0	0.0	28	117.7583	1.6567
22	6	100.0	0.0	27	89.3191	1.0652
23	1	10.0	0.0	23	58.5494	0.8048
24	1	10.0	0.0	31	58.5494	0.8048
25	3	30.0	0.0	25	45.9536	0.6749
26	3	30.0	0.0	29	45.9536	0.6749
27	7	150.0	0.0	27	43.6340	0.4519
28	6	100.0	0.0	26	31.5489	0.3777
29	6	100.0	0.0	28	31.5489	0.3777
30	8	200.0	0.0	27	25.7711	0.2382
31	4	40.0	0.0	25	18.8741	0.2750
32	4	40.0	0.0	29	18.8741	0.2750
33	9	250.0	0.0	27	17.1590	0.1440
34	7	150.0	0.0	26	13.9878	0.1456
35	7	150.0	0.0	28	13.9878	0.1456
36	10	300.0	0.0	27	12.3176	0.0954
37	2	20.0	0.0	24	9.5499	0.1383
38	2	20.0	0.0	30	9.5499	0.1383
39	5	50.0	0.0	25	9.3670	0.1326
40	5	50.0	0.0	29	9.3670	0.1326
41	1	10.0	0.0	22	8.3189	0.1123
42	1	10.0	0.0	32	8.3189	0.1123
43	8	200.0	0.0	26	7.7494	0.0721
44	8	200.0	0.0	28	7.7494	0.0721
45	11	400.0	0.0	27	7.3254	0.0501
46	12	450.0	0.0	27	5.9309	0.0386
47	9	250.0	0.0	26	4.9091	0.0415
48	9	250.0	0.0	28	4.9091	0.0415
49	10	300.0	0.0	26	3.3825	0.0264
50	10	300.0	0.0	28	3.3825	0.0264

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HIGHEST AND SECOND HIGHEST VALUES FOR 1 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSITION
1	10.0	0.0	428.4135	26.	6.0020	428.4135	28.	6.0020

2	20.0	0.0	554.3582	27.	8.0567	413.6331	26.	6.0117
3	30.0	0.0	467.0744	27.	6.8645	266.3972	26.	3.9151
4	40.0	0.0	355.3459	27.	5.1519	172.9191	26.	2.5083
5	50.0	0.0	267.4424	27.	3.7582	117.7585	26.	1.6568
6	100.0	0.0	89.3191	27.	1.0652	31.5489	26.	0.3777
7	150.0	0.0	43.6340	27.	0.4519	13.9878	26.	0.1456
8	200.0	0.0	25.7711	27.	0.2382	7.7494	26.	0.0721
9	250.0	0.0	17.1590	27.	0.1440	4.9091	26.	0.0415
10	300.0	0.0	12.3176	27.	0.0954	3.3825	26.	0.0264
11	400.0	0.0	7.3254	27.	0.0501	1.8821	26.	0.0130
12	450.0	0.0	5.9309	27.	0.0386	1.4816	26.	0.0097

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TOP 50 TABLE FOR LONG TERM AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	1	10.0	0.0	36	66.7666	0.9325
2	2	20.0	0.0	36	46.9274	0.6818
3	3	30.0	0.0	36	30.3820	0.4465
4	4	40.0	0.0	36	20.5371	0.2979
5	5	50.0	0.0	36	14.4949	0.2039
6	6	100.0	0.0	36	4.2989	0.0514
7	7	150.0	0.0	36	2.0096	0.0209
8	8	200.0	0.0	36	1.1555	0.0107
9	9	250.0	0.0	36	0.7542	0.0063
10	10	300.0	0.0	36	0.5330	0.0041
11	11	400.0	0.0	36	0.3094	0.0021
12	12	450.0	0.0	36	0.2480	0.0016
13	0	-0.1	0.0	0	0.0000	0.0000
14	0	-0.1	0.0	0	0.0000	0.0000
15	0	-0.1	0.0	0	0.0000	0.0000
16	0	-0.1	0.0	0	0.0000	0.0000
17	0	-0.1	0.0	0	0.0000	0.0000
18	0	-0.1	0.0	0	0.0000	0.0000
19	0	-0.1	0.0	0	0.0000	0.0000
20	0	-0.1	0.0	0	0.0000	0.0000
21	0	-0.1	0.0	0	0.0000	0.0000
22	0	-0.1	0.0	0	0.0000	0.0000
23	0	-0.1	0.0	0	0.0000	0.0000
24	0	-0.1	0.0	0	0.0000	0.0000
25	0	-0.1	0.0	0	0.0000	0.0000
26	0	-0.1	0.0	0	0.0000	0.0000
27	0	-0.1	0.0	0	0.0000	0.0000
28	0	-0.1	0.0	0	0.0000	0.0000
29	0	-0.1	0.0	0	0.0000	0.0000
30	0	-0.1	0.0	0	0.0000	0.0000
31	0	-0.1	0.0	0	0.0000	0.0000
32	0	-0.1	0.0	0	0.0000	0.0000
33	0	-0.1	0.0	0	0.0000	0.0000
34	0	-0.1	0.0	0	0.0000	0.0000
35	0	-0.1	0.0	0	0.0000	0.0000
36	0	-0.1	0.0	0	0.0000	0.0000
37	0	-0.1	0.0	0	0.0000	0.0000
38	0	-0.1	0.0	0	0.0000	0.0000
39	0	-0.1	0.0	0	0.0000	0.0000
40	0	-0.1	0.0	0	0.0000	0.0000
41	0	-0.1	0.0	0	0.0000	0.0000
42	0	-0.1	0.0	0	0.0000	0.0000
43	0	-0.1	0.0	0	0.0000	0.0000
44	0	-0.1	0.0	0	0.0000	0.0000
45	0	-0.1	0.0	0	0.0000	0.0000
46	0	-0.1	0.0	0	0.0000	0.0000
47	0	-0.1	0.0	0	0.0000	0.0000
48	0	-0.1	0.0	0	0.0000	0.0000
49	0	-0.1	0.0	0	0.0000	0.0000
50	0	-0.1	0.0	0	0.0000	0.0000

DATE AT END OF RUN: 01/18/02 TIME AT END OF RUN: 10:14:32.03
 ELAPSED TIME FOR THIS RUN: 0.33000E+00 SECONDS
 OR 0 HOURS 0 MINUTES 0.33 SECONDS

Excavation-Styrene

1 FDM - (DATED 93070)

IBM-PC VERSION (1.10)
 (C) COPYRIGHT 1991-1995, TRINITY CONSULTANTS, INC.

DATE AT START OF RUN: 01/18/02 TIME AT START OF RUN: 10:14:32.19

RUN TITLE:

Cheoy Lee Shipyard (28Dec01)

INPUT FILE NAME: STY-A10.DAT
 OUTPUT FILE NAME: STY.LST

CONVERGENCE OPTION 1=OFF, 2=ON 1
 MET OPTION SWITCH, 1=CARDS, 2=PREPROCESSED 1
 PLOT FILE OUTPUT, 1=NO, 2=YES 1
 MET DATA PRINT SWITCH, 1=NO, 2=YES 1

POST-PROCESSOR OUTPUT, 1=NO, 2=YES 1
 DEP. VEL./GRAV. SETTL. VEL., 1=DEFAULT, 2=USER 1
 PRINT 1-HOUR AVERAGE CONCEN, 1=NO, 2=YES 3
 PRINT 3-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
 PRINT 8-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
 PRINT 24-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
 PRINT LONG-TERM AVERAGE CONCEN, 1=NO, 2=YES 3
 BYPASS RAMMET CALMS RECOGNITION, 1=NO, 2=YES 2
 READ HOURLY EMISSION RATINGS, 1=NO, 2=YES 0
 NUMBER OF SOURCES PROCESSED 1
 NUMBER OF RECEPTORS PROCESSED 10
 NUMBER OF PARTICLE SIZE CLASSES 9
 NUMBER OF HOURS OF MET DATA PROCESSED 36
 LENGTH IN MINUTES OF 1-HOUR OF MET DATA 60
 ROUGHNESS LENGTH IN CM 100.00
 SCALING FACTOR FOR SOURCE AND RECEPTORS 1.0000
 PARTICLE DENSITY IN G/CM**3 2.50
 ANEMOMETER HEIGHT IN M 98.50

GENERAL PARTICLE SIZE CLASS INFORMATION

PARTICLE SIZE CLASS	CHAR. DIA. (UM)	SETTLING VELOCITY (M/SEC)	GRAV. DEPOSITION VELOCITY (M/SEC)	FRACTION IN EACH SIZE CLASS
1	0.5000000	**	**	0.0400
2	1.5000000	**	**	0.0700
3	2.2500000	**	**	0.0400
4	2.7500000	**	**	0.0300
5	3.5000000	**	**	0.0700
6	4.5000000	**	**	0.0500
7	5.5000000	**	**	0.0400
8	8.0000000	**	**	0.1700
9	20.0000000	**	**	0.4900

** COMPUTED BY FDM

1

RECEPTOR COORDINATES (X,Y,Z)

(10., 0., 2.) (20., 0., 2.) (30., 0., 2.)
 (40., 0., 2.) (50., 0., 2.) (100., 0., 2.)
 (150., 0., 2.) (200., 0., 2.) (250., 0., 2.)
 (300., 0., 2.)

1

SOURCE INFORMATION

TYPE	ENTERED RATE (G/SEC, G/SEC/M**2)	TOTAL EMISSION RATE (G/SEC)	WIND SPEED (M/SEC)	X1 (M)	Y1 (M)	X2 (M)	Y2 (M)	HEIGHT (M)	WIDTH (M)
3	0.000700000	0.07000	0.000	0.	0.	10.	10.	0.50	0.00

TOTAL EMISSIONS 0.70000E-01 GRAMS/SEC

SHORT DISTANCE (5,000 M) MASS CONSERVATION CORRECTION FACTORS USED

TOP 50 TABLE FOR 1 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	2	20.0	0.0	27	1635.6333	23.7712
2	3	30.0	0.0	27	1378.1025	20.2538
3	1	10.0	0.0	26	1264.0338	17.7089
4	1	10.0	0.0	28	1264.0338	17.7089
5	1	10.0	0.0	27	1220.4945	17.0987
6	2	20.0	0.0	26	1220.4238	17.7377
7	2	20.0	0.0	28	1220.4232	17.7377
8	4	40.0	0.0	27	1048.4476	15.2007
9	1	10.0	0.0	25	967.7291	13.5471
10	1	10.0	0.0	29	967.7289	13.5471
11	5	50.0	0.0	27	789.0887	11.0885
12	3	30.0	0.0	26	786.0049	11.5514
13	3	30.0	0.0	28	786.0042	11.5514
14	4	40.0	0.0	26	510.1977	7.4009
15	4	40.0	0.0	28	510.1974	7.4009
16	1	10.0	0.0	24	506.3565	7.0077
17	1	10.0	0.0	30	506.3561	7.0076
18	2	20.0	0.0	25	425.3147	6.1696
19	2	20.0	0.0	29	425.3145	6.1696
20	5	50.0	0.0	26	347.4463	4.8882
21	5	50.0	0.0	28	347.4459	4.8882
22	6	100.0	0.0	27	263.5361	3.1428
23	1	10.0	0.0	23	172.7500	2.3745
24	1	10.0	0.0	31	172.7499	2.3745
25	3	30.0	0.0	25	135.5861	1.9912
26	3	30.0	0.0	29	135.5860	1.9912
27	7	150.0	0.0	27	128.7420	1.3334
28	6	100.0	0.0	26	93.0851	1.1145
29	6	100.0	0.0	28	93.0850	1.1145
30	8	200.0	0.0	27	76.0376	0.7028
31	4	40.0	0.0	25	55.6881	0.8114
32	4	40.0	0.0	29	55.6880	0.8114
33	9	250.0	0.0	27	50.6277	0.4249
34	7	150.0	0.0	26	41.2710	0.4297
35	7	150.0	0.0	28	41.2710	0.4297

36	10	300.0	0.0	27	36.3430	0.2815
37	2	20.0	0.0	24	28.1769	0.4081
38	2	20.0	0.0	30	28.1769	0.4081
39	5	50.0	0.0	25	27.6375	0.3912
40	5	50.0	0.0	29	27.6374	0.3912
41	1	10.0	0.0	22	24.5450	0.3312
42	1	10.0	0.0	32	24.5450	0.3312
43	8	200.0	0.0	26	22.8646	0.2126
44	8	200.0	0.0	28	22.8646	0.2126
45	9	250.0	0.0	26	14.4843	0.1224
46	9	250.0	0.0	28	14.4843	0.1224
47	10	300.0	0.0	26	9.9800	0.0778
48	10	300.0	0.0	28	9.9800	0.0778
49	6	100.0	0.0	25	3.4489	0.0418
50	6	100.0	0.0	29	3.4489	0.0418

1
HIGHEST AND SECOND HIGHEST VALUES FOR 1 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSITION
1	10.0	0.0	1264.0338	26.	17.7089	1264.0338	28.	17.7089
2	20.0	0.0	1635.6333	27.	23.7712	1220.4238	26.	17.7377
3	30.0	0.0	1378.1025	27.	20.2538	786.0049	26.	11.5514
4	40.0	0.0	1048.4476	27.	15.2007	510.1977	26.	7.4009
5	50.0	0.0	789.0887	27.	11.0885	347.4463	26.	4.8882
6	100.0	0.0	263.5361	27.	3.1428	93.0851	26.	1.1145
7	150.0	0.0	128.7420	27.	1.3334	41.2710	26.	0.4297
8	200.0	0.0	76.0376	27.	0.7028	22.8646	26.	0.2126
9	250.0	0.0	50.6277	27.	0.4249	14.4843	26.	0.1224
10	300.0	0.0	36.3430	27.	0.2815	9.9800	26.	0.0778

1
TOP 50 TABLE FOR LONG TERM AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	1	10.0	0.0	36	196.9948	2.7512
2	2	20.0	0.0	36	138.4593	2.0116
3	3	30.0	0.0	36	89.6420	1.3173
4	4	40.0	0.0	36	60.5947	0.8790
5	5	50.0	0.0	36	42.7671	0.6015
6	6	100.0	0.0	36	12.6838	0.1515
7	7	150.0	0.0	36	5.9294	0.0616
8	8	200.0	0.0	36	3.4093	0.0316
9	9	250.0	0.0	36	2.2254	0.0187
10	10	300.0	0.0	36	1.5726	0.0122
11	0	-0.1	0.0	0	0.0000	0.0000
12	0	-0.1	0.0	0	0.0000	0.0000
13	0	-0.1	0.0	0	0.0000	0.0000
14	0	-0.1	0.0	0	0.0000	0.0000
15	0	-0.1	0.0	0	0.0000	0.0000
16	0	-0.1	0.0	0	0.0000	0.0000
17	0	-0.1	0.0	0	0.0000	0.0000
18	0	-0.1	0.0	0	0.0000	0.0000
19	0	-0.1	0.0	0	0.0000	0.0000
20	0	-0.1	0.0	0	0.0000	0.0000
21	0	-0.1	0.0	0	0.0000	0.0000
22	0	-0.1	0.0	0	0.0000	0.0000
23	0	-0.1	0.0	0	0.0000	0.0000
24	0	-0.1	0.0	0	0.0000	0.0000
25	0	-0.1	0.0	0	0.0000	0.0000
26	0	-0.1	0.0	0	0.0000	0.0000
27	0	-0.1	0.0	0	0.0000	0.0000
28	0	-0.1	0.0	0	0.0000	0.0000
29	0	-0.1	0.0	0	0.0000	0.0000
30	0	-0.1	0.0	0	0.0000	0.0000
31	0	-0.1	0.0	0	0.0000	0.0000
32	0	-0.1	0.0	0	0.0000	0.0000
33	0	-0.1	0.0	0	0.0000	0.0000
34	0	-0.1	0.0	0	0.0000	0.0000
35	0	-0.1	0.0	0	0.0000	0.0000
36	0	-0.1	0.0	0	0.0000	0.0000
37	0	-0.1	0.0	0	0.0000	0.0000
38	0	-0.1	0.0	0	0.0000	0.0000
39	0	-0.1	0.0	0	0.0000	0.0000
40	0	-0.1	0.0	0	0.0000	0.0000
41	0	-0.1	0.0	0	0.0000	0.0000
42	0	-0.1	0.0	0	0.0000	0.0000
43	0	-0.1	0.0	0	0.0000	0.0000
44	0	-0.1	0.0	0	0.0000	0.0000
45	0	-0.1	0.0	0	0.0000	0.0000
46	0	-0.1	0.0	0	0.0000	0.0000
47	0	-0.1	0.0	0	0.0000	0.0000
48	0	-0.1	0.0	0	0.0000	0.0000
49	0	-0.1	0.0	0	0.0000	0.0000
50	0	-0.1	0.0	0	0.0000	0.0000

DATE AT END OF RUN: 01/18/02 TIME AT END OF RUN: 10:14:32.52
 ELAPSED TIME FOR THIS RUN: 0.33000E+00 SECONDS
 OR 0 HOURS 0 MINUTES 0.33 SECONDS

Solidification- Cr6+

1 FDM - (DATED 93070)

DATE AT START OF RUN: 02/07/02 TIME AT START OF RUN: 16:22:37.79

RUN TITLE:
Cheoy Lee Shipyard (27Dec01 Cr6 emission)

INPUT FILE NAME: cr6-b.DAT
OUTPUT FILE NAME: cr6-b.LST

CONVERGENCE OPTION 1=OFF, 2=ON 1
MET OPTION SWITCH, 1=CARDS, 2=PREPROCESSED 1
PLOT FILE OUTPUT, 1=NO, 2=YES 1
MET DATA PRINT SWITCH, 1=NO, 2=YES 1
POST-PROCESSOR OUTPUT, 1=NO, 2=YES 1
DEP. VEL./GRAV. SETTL. VEL., 1=DEFAULT, 2=USER 1
PRINT 1-HOUR AVERAGE CONCEN, 1=NO, 2=YES 3
PRINT 3-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
PRINT 8-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
PRINT 24-HOUR AVERAGE CONCEN, 1=NO, 2=YES 1
PRINT 24-HOUR TERM AVERAGE CONCEN, 1=NO, 2=YES 3
BYPASS RAMMET CALMS RECOGNITION, 1=NO, 2=YES 2
READ HOURLY EMISSION RATES, 1=NO, 2=YES 0
NUMBER OF SOURCES PROCESSED 1
NUMBER OF RECEPTORS PROCESSED 12
NUMBER OF PARTICLE SIZE CLASSES 9
NUMBER OF HOURS OF MET DATA PROCESSED 36
LENGTH IN MINUTES OF 1-HOUR OF MET DATA 60.
ROUGHNESS LENGTH IN CM 100.00
SCALING FACTOR FOR SOURCE AND RECEPTORS 1.0000
PARTICLE DENSITY IN G/CM**3 2.50
ANEMOMETER HEIGHT IN M 98.50

GENERAL PARTICLE SIZE CLASS INFORMATION

PARTICLE SIZE CLASS	CHAR. DIA. (UM)	GRAV. SETTLING VELOCITY (M/SEC)	DEPOSITION VELOCITY (M/SEC)	FRACTION IN EACH SIZE CLASS
1	0.5000000	**	**	0.0400
2	1.5000000	**	**	0.0700
3	2.2500000	**	**	0.0400
4	2.7500000	**	**	0.0300
5	3.5000000	**	**	0.0700
6	4.5000000	**	**	0.0500
7	5.5000000	**	**	0.0400
8	8.0000000	**	**	0.1700
9	20.0000000	**	**	0.4900

** COMPUTED BY FDM

1

RECEPTOR COORDINATES (X,Y,Z)

(10., 0., 2.) (20., 0., 2.) (30., 0., 2.)
(40., 0., 2.) (50., 0., 2.) (100., 0., 2.)
(150., 0., 2.) (200., 0., 2.) (250., 0., 2.)
(300., 0., 2.) (400., 0., 2.) (450., 0., 2.)

1

SOURCE INFORMATION

TYPE	ENTERED EMIS. RATE (G/SEC, G/SEC/M**2)	TOTAL EMISSION RATE (G/SEC)	WIND SPEED FAC.	X1 (M)	Y1 (M)	X2 (M)	Y2 (M)	HEIGHT (M)	WIDTH (M)
1	0.000177950	0.00018	0.000	0.	0.	0.	0.	0.50	0.00
TOTAL EMISSIONS		0.17795E-03	GRAMS/SEC						

SHORT DISTANCE (5,000 M) MASS CONSERVATION CORRECTION FACTORS USED

1

TOP 50 TABLE FOR 1 HOUR AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	1	10.0	0.0	27	9.7972	0.1387
2	2	20.0	0.0	27	6.5829	0.0938
3	1	10.0	0.0	26	4.3023	0.0609
4	1	10.0	0.0	28	4.3023	0.0609
5	3	30.0	0.0	27	4.1944	0.0588
6	4	40.0	0.0	27	2.7989	0.0379
7	2	20.0	0.0	26	2.7103	0.0386

8	2	20.0	0.0	28	2.7103	0.0386
9	5	50.0	0.0	27	1.9619	0.0253
10	3	30.0	0.0	26	1.6518	0.0232
11	3	30.0	0.0	28	1.6518	0.0232
12	4	40.0	0.0	26	1.0657	0.0145
13	4	40.0	0.0	28	1.0657	0.0145
14	5	50.0	0.0	26	0.7256	0.0094
15	5	50.0	0.0	28	0.7256	0.0094
16	6	100.0	0.0	27	0.5804	0.0060
17	1	10.0	0.0	25	0.2993	0.0042
18	1	10.0	0.0	29	0.2993	0.0042
19	7	150.0	0.0	27	0.2747	0.0024
20	6	100.0	0.0	26	0.1938	0.0020
21	6	100.0	0.0	28	0.1938	0.0020
22	8	200.0	0.0	27	0.1601	0.0012
23	2	20.0	0.0	25	0.1530	0.0022
24	2	20.0	0.0	29	0.1530	0.0022
25	9	250.0	0.0	27	0.1058	0.0007
26	7	150.0	0.0	26	0.0856	0.0008
27	7	150.0	0.0	28	0.0856	0.0008
28	3	30.0	0.0	25	0.0807	0.0011
29	3	30.0	0.0	29	0.0807	0.0011
30	10	300.0	0.0	27	0.0755	0.0005
31	8	200.0	0.0	26	0.0473	0.0004
32	8	200.0	0.0	28	0.0473	0.0004
33	4	40.0	0.0	25	0.0467	0.0006
34	4	40.0	0.0	29	0.0467	0.0006
35	11	400.0	0.0	27	0.0446	0.0003
36	12	450.0	0.0	27	0.0360	0.0002
37	9	250.0	0.0	26	0.0299	0.0002
38	9	250.0	0.0	28	0.0299	0.0002
39	5	50.0	0.0	25	0.0290	0.0004
40	5	50.0	0.0	29	0.0290	0.0004
41	10	300.0	0.0	26	0.0206	0.0001
42	10	300.0	0.0	28	0.0206	0.0001
43	11	400.0	0.0	26	0.0114	0.0001
44	11	400.0	0.0	28	0.0114	0.0001
45	12	450.0	0.0	26	0.0090	0.0000
46	12	450.0	0.0	28	0.0090	0.0000
47	6	100.0	0.0	25	0.0056	0.0001
48	6	100.0	0.0	29	0.0056	0.0001
49	7	150.0	0.0	25	0.0020	0.0000
50	7	150.0	0.0	29	0.0020	0.0000

1

HIGHEST AND SECOND HIGHEST VALUES FOR 1 HOUR AVERAGES

RECEPTOR	X-COORDINATE	Y-COORDINATE	HIGHEST VALUE	ENDING HOUR	DEPOSITION	SECOND HIGH	ENDING HOUR	DEPOSITION
1	10.0	0.0	9.7972	27.	0.1387	4.3023	26.	0.0609
2	20.0	0.0	6.5829	27.	0.0938	2.7103	26.	0.0386
3	30.0	0.0	4.1944	27.	0.0588	1.6518	26.	0.0232
4	40.0	0.0	2.7989	27.	0.0379	1.0657	26.	0.0145
5	50.0	0.0	1.9619	27.	0.0253	0.7256	26.	0.0094
6	100.0	0.0	0.5804	27.	0.0060	0.1938	26.	0.0020
7	150.0	0.0	0.2747	27.	0.0024	0.0856	26.	0.0008
8	200.0	0.0	0.1601	27.	0.0012	0.0473	26.	0.0004
9	250.0	0.0	0.1058	27.	0.0007	0.0299	26.	0.0002
10	300.0	0.0	0.0755	27.	0.0005	0.0206	26.	0.0001
11	400.0	0.0	0.0446	27.	0.0003	0.0114	26.	0.0001
12	450.0	0.0	0.0360	27.	0.0002	0.0090	26.	0.0000

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TOP 50 TABLE FOR LONG TERM AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	1	10.0	0.0	36	0.5279	0.0075
2	2	20.0	0.0	36	0.3420	0.0049
3	3	30.0	0.0	36	0.2128	0.0030
4	4	40.0	0.0	36	0.1396	0.0019
5	5	50.0	0.0	36	0.0964	0.0012
6	6	100.0	0.0	36	0.0272	0.0003
7	7	150.0	0.0	36	0.0125	0.0001
8	8	200.0	0.0	36	0.0071	0.0001
9	9	250.0	0.0	36	0.0046	0.0000
10	10	300.0	0.0	36	0.0033	0.0000
11	11	400.0	0.0	36	0.0019	0.0000
12	12	450.0	0.0	36	0.0015	0.0000
13	0	-0.1	0.0	0	0.0000	0.0000
14	0	-0.1	0.0	0	0.0000	0.0000
15	0	-0.1	0.0	0	0.0000	0.0000
16	0	-0.1	0.0	0	0.0000	0.0000
17	0	-0.1	0.0	0	0.0000	0.0000
18	0	-0.1	0.0	0	0.0000	0.0000
19	0	-0.1	0.0	0	0.0000	0.0000
20	0	-0.1	0.0	0	0.0000	0.0000
21	0	-0.1	0.0	0	0.0000	0.0000

22	0	-0.1	0.0	0	0.0000	0.0000
23	0	-0.1	0.0	0	0.0000	0.0000
24	0	-0.1	0.0	0	0.0000	0.0000
25	0	-0.1	0.0	0	0.0000	0.0000
26	0	-0.1	0.0	0	0.0000	0.0000
27	0	-0.1	0.0	0	0.0000	0.0000
28	0	-0.1	0.0	0	0.0000	0.0000
29	0	-0.1	0.0	0	0.0000	0.0000
30	0	-0.1	0.0	0	0.0000	0.0000
31	0	-0.1	0.0	0	0.0000	0.0000
32	0	-0.1	0.0	0	0.0000	0.0000
33	0	-0.1	0.0	0	0.0000	0.0000
34	0	-0.1	0.0	0	0.0000	0.0000
35	0	-0.1	0.0	0	0.0000	0.0000
36	0	-0.1	0.0	0	0.0000	0.0000
37	0	-0.1	0.0	0	0.0000	0.0000
38	0	-0.1	0.0	0	0.0000	0.0000
39	0	-0.1	0.0	0	0.0000	0.0000
40	0	-0.1	0.0	0	0.0000	0.0000
41	0	-0.1	0.0	0	0.0000	0.0000
42	0	-0.1	0.0	0	0.0000	0.0000
43	0	-0.1	0.0	0	0.0000	0.0000
44	0	-0.1	0.0	0	0.0000	0.0000
45	0	-0.1	0.0	0	0.0000	0.0000
46	0	-0.1	0.0	0	0.0000	0.0000
47	0	-0.1	0.0	0	0.0000	0.0000
48	0	-0.1	0.0	0	0.0000	0.0000
49	0	-0.1	0.0	0	0.0000	0.0000
50	0	-0.1	0.0	0	0.0000	0.0000

DATE AT END OF RUN: 02/07/02 TIME AT END OF RUN: 16:22:38.17
ELAPSED TIME FOR THIS RUN: 0.38000E+00 SECONDS
OR 0 HOURS 0 MINUTES 0.38 SECONDS

Sample Computer Output of ISCST3 Calculations

Dioxin

```
**
** PROJECT Cheoy Lee Shipyard Excavation
**
CO STARTING
CO TITLEONE Cheoy Lee Shipyard Excavation
CO TITLETWO DIOXIN Assessment (Hourly)
CO MODELOPT GRDRIS CONC RURAL
CO AVERTIME 1 ANNUAL
CO TERRHGTS ELEV
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL ERRORS.LST
CO FLAGPOLE 0.0
CO FINISHED
```

```
SO STARTING
SO ELEVUNIT METERS
****      ID  Src typ   Xs   Ys   Zs
****      -----
SO LOCATION S2 POINT 22473.1 22540.5 5.7
****      ID  Emiss  Stk hgt  Stk trmp  Stk vel  Stk dia
****      -----
SO SRCPARAM S2 0.1E-09 8.0 373.0 8.0 0.4
SO EMISUNIT 1.0E+12 GRAMS/SEC PICOGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED
```

```
RE STARTING
RE ELEVUNIT METERS
** ASR
**      Xcoord  Ycoord  Zelev   Zflag
**      -----
RE DISCCART 22480.3 22330.3 46.0 1.5
RE DISCCART 22480.3 22330.3 46.0 10.0
RE DISCCART 22480.3 22330.3 46.0 20.0
RE DISCCART 22480.3 22330.3 46.0 30.0
RE DISCCART 22480.3 22330.3 46.0 40.0
RE DISCCART 22293.0 22414.4 5.4 1.5
RE DISCCART 22293.0 22414.4 5.4 10.0
RE DISCCART 22293.0 22414.4 5.4 20.0
RE DISCCART 22293.0 22414.4 5.4 30.0
RE DISCCART 22293.0 22414.4 5.4 40.0
RE DISCCART 22656.1 24750.4 9.0 1.5
RE DISCCART 22656.1 24750.4 9.0 10.0
RE DISCCART 22656.1 24750.4 9.0 20.0
RE DISCCART 22656.1 24750.4 9.0 30.0
RE DISCCART 22656.1 24750.4 9.0 40.0
RE DISCCART 23791.9 23263.2 2.6 1.5
RE DISCCART 23791.9 23263.2 2.6 10.0
RE DISCCART 23791.9 23263.2 2.6 20.0
RE DISCCART 23791.9 23263.2 2.6 30.0
RE DISCCART 23791.9 23263.2 2.6 40.0
RE FINISHED
```

```
ME STARTING
ME INPUTFIL CCH99.met (4i2,2(1x,f8.4),1x,f5.1,1x,i1,2(1x,f6.1))
ME ANEMHGHT 98.5 METERS
ME SURFDATA 99999 1999
ME UAIRDATA 99999 1999
ME FINISHED
```

```
OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU MAXTABLE ALLAVE 50
OU PLOTFILE 1 ALL first d_dil.out
OU PLOTFILE ANNUAL ALL d_di_a.out
OU FINISHED
```

```
*****
*** SETUP Finishes Successfully ***
*****
```

```
*** ISCST3 - VERSION 00101 ***   *** Cheoy Lee Shipyard Excavation   ***   01/16/02
*** DIOXIN Assessment (Hourly)   ***   15:13:07
**MODELOPTS:   PAGE 1
CONC          RURAL ELEV FLGPOL  GRDRIS
```

```
*** MODEL SETUP OPTIONS SUMMARY ***
```

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --

**Model Uses NO DRY DEPLETION. DDPLETE = F

**NO WET SCAVENGING DEPLETION. WDPLETE = F

**NO WET SCAVENGING Data Provided.

**NO GAS DRY DEPOSITION Data Provided.

**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:

1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates ANNUAL Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 20 Receptor(s)

**The Model Assumes A Pollutant Type of: OTHER

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:

- Model Outputs Tables of ANNUAL Averages by Receptor
- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 98.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+13
Output Units = PICOGRAMS/M**3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: d-dioxin.inp

**Output Print File: d-dioxin.lst

**Detailed Error/Message File: ERRORS.LST

*** ISCS T3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02

*** DIOXIN Assessment (Hourly) *** 15:13:07

**MODELOPTs: PAGE 2

CONC RURAL ELEV FLGPOL GRDRIS

*** POINT SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION RATE	
SOURCE ID	PART. (USER UNITS)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	TEMP. (DEG.K)	EXIT VEL. (M/SEC)	DIAMETER (METERS)	EXISTS SCALAR VARY BY

S2 0 0.10000E-09 22473.1 22540.5 5.7 8.00 373.00 8.00 0.40 NO *** 01/16/02

*** ISCS T3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 15:13:07

*** DIOXIN Assessment (Hourly) *** 15:13:07

**MODELOPTs: PAGE 3

CONC RURAL ELEV FLGPOL GRDRIS

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

ALL S2 ,

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-0 IPCODE PRATE
 YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

99	01	01	01	281.0	7.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	02	278.0	8.90	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	03	274.0	7.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	04	233.0	7.40	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	05	253.0	7.20	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	06	252.0	7.60	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	07	255.0	6.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	08	283.0	5.70	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	09	267.0	4.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	10	251.0	4.30	291.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	11	294.0	3.70	293.1	2	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	12	306.0	5.60	294.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	13	313.0	9.00	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	14	299.0	6.40	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	15	312.0	7.90	294.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	16	314.0	7.60	293.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	17	311.0	6.10	291.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	18	297.0	4.60	290.1	5	1271.9	1252.1	0.0000	0.0	0.0000	0	0.00
99	01	01	19	304.0	3.80	289.1	5	1262.4	1155.0	0.0000	0.0	0.0000	0	0.00
99	01	01	20	277.0	3.00	289.1	5	1253.0	1057.9	0.0000	0.0	0.0000	0	0.00
99	01	01	21	280.0	3.50	289.1	5	1243.5	960.9	0.0000	0.0	0.0000	0	0.00
99	01	01	22	282.0	5.60	289.1	4	1234.1	1234.1	0.0000	0.0	0.0000	0	0.00
99	01	01	23	280.0	5.20	289.1	4	1224.6	1224.6	0.0000	0.0	0.0000	0	0.00
99	01	01	24	260.0	4.00	289.1	5	1215.1	669.7	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
 FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
 *** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** DIOXIN Assessment (Hourly) *** 15:13:07
 **MODELOPTs: PAGE 7
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN PICOGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
22480.30	22330.30	0.00169	22480.30	22330.30	0.00172
22480.30	22330.30	0.00092	22480.30	22330.30	0.00020
22480.30	22330.30	0.00003	22293.00	22414.40	0.00040
22293.00	22414.40	0.00052	22293.00	22414.40	0.00065
22293.00	22414.40	0.00069	22293.00	22414.40	0.00036
22656.10	24750.40	0.00002	22656.10	24750.40	0.00002
22656.10	24750.40	0.00002	22656.10	24750.40	0.00002
22656.10	24750.40	0.00002	23791.90	23263.20	0.00002
23791.90	23263.20	0.00002	23791.90	23263.20	0.00002
23791.90	23263.20	0.00002	23791.90	23263.20	0.00002

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** DIOXIN Assessment (Hourly) *** 15:13:07
 **MODELOPTs: PAGE 8
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN PICOGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
22480.30	22330.30	0.05750 (99011902)	22480.30	22330.30	0.06341 (99072401)
22480.30	22330.30	0.03738 (99122107)	22480.30	22330.30	0.01170 (99122107)
22480.30	22330.30	0.00633 (99111813)	22293.00	22414.40	0.02474 (99060407)
22293.00	22414.40	0.03847 (99030701)	22293.00	22414.40	0.09054 (99091006)
22293.00	22414.40	0.20362 (99091006)	22293.00	22414.40	0.08841 (99051822)
22656.10	24750.40	0.00661 (99051820)	22656.10	24750.40	0.00671 (99051820)
22656.10	24750.40	0.00678 (99051820)	22656.10	24750.40	0.00635 (99051820)
22656.10	24750.40	0.00523 (99051820)	23791.90	23263.20	0.00789 (99060201)
23791.90	23263.20	0.00974 (99060201)	23791.90	23263.20	0.01386 (99060201)
23791.90	23263.20	0.01662 (99060201)	23791.90	23263.20	0.01551 (99022421)

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02

*** DIOXIN Assessment (Hourly) *** 15:13:07

**MODELOPTs: PAGE 9

CONC RURAL ELEV FLGPOL GRDRIS

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN PICOGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
22480.30	22330.30	0.05747 (99012802)	22480.30	22330.30	0.06341 (99090905)
22480.30	22330.30	0.03709 (99011216)	22480.30	22330.30	0.01134 (99011213)
22480.30	22330.30	0.00583 (99092710)	22293.00	22414.40	0.02396 (99110904)
22293.00	22414.40	0.03705 (99060407)	22293.00	22414.40	0.08372 (99012219)
22293.00	22414.40	0.19951 (99012219)	22293.00	22414.40	0.08480 (99012219)
22656.10	24750.40	0.00569 (99070702)	22656.10	24750.40	0.00563 (99070702)
22656.10	24750.40	0.00541 (99070702)	22656.10	24750.40	0.00503 (99070702)
22656.10	24750.40	0.00449 (99070702)	23791.90	23263.20	0.00768 (99022421)
23791.90	23263.20	0.00953 (99022421)	23791.90	23263.20	0.01368 (99022421)
23791.90	23263.20	0.01655 (99022421)	23791.90	23263.20	0.01543 (99060201)

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02

*** DIOXIN Assessment (Hourly) *** 15:13:07

**MODELOPTs: PAGE 10

CONC RURAL ELEV FLGPOL GRDRIS

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

** CONC OF OTHER IN PICOGRAMS/M**3 **

RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE
1.	0.20362 (99091006) AT (22293.00, 22414.40) DC	26.	0.07311 (99051404) AT (22293.00, 22414.40) DC		
2.	0.19951 (99012219) AT (22293.00, 22414.40) DC	27.	0.07305 (99101602) AT (22293.00, 22414.40) DC		
3.	0.18761 (99022624) AT (22293.00, 22414.40) DC	28.	0.07270 (99120923) AT (22293.00, 22414.40) DC		
4.	0.18663 (99021101) AT (22293.00, 22414.40) DC	29.	0.07188 (99021804) AT (22293.00, 22414.40) DC		
5.	0.15342 (99030705) AT (22293.00, 22414.40) DC	30.	0.07131 (99022223) AT (22293.00, 22414.40) DC		
6.	0.15305 (99012801) AT (22293.00, 22414.40) DC	31.	0.07077 (99040804) AT (22293.00, 22414.40) DC		
7.	0.15267 (99022504) AT (22293.00, 22414.40) DC	32.	0.06999 (99031323) AT (22293.00, 22414.40) DC		
8.	0.11058 (99070306) AT (22293.00, 22414.40) DC	33.	0.06998 (99012002) AT (22293.00, 22414.40) DC		
9.	0.11013 (99081906) AT (22293.00, 22414.40) DC	34.	0.06990 (99122607) AT (22293.00, 22414.40) DC		
10.	0.10963 (99030801) AT (22293.00, 22414.40) DC	35.	0.06988 (99040921) AT (22293.00, 22414.40) DC		
11.	0.09596 (99051822) AT (22293.00, 22414.40) DC	36.	0.06951 (99122601) AT (22293.00, 22414.40) DC		
12.	0.09062 (99040921) AT (22293.00, 22414.40) DC	37.	0.06856 (99020722) AT (22293.00, 22414.40) DC		
13.	0.09054 (99091006) AT (22293.00, 22414.40) DC	38.	0.06827 (99112504) AT (22293.00, 22414.40) DC		
14.	0.08863 (99060505) AT (22293.00, 22414.40) DC	39.	0.06735 (99051404) AT (22293.00, 22414.40) DC		
15.	0.08841 (99051822) AT (22293.00, 22414.40) DC	40.	0.06646 (99060505) AT (22293.00, 22414.40) DC		
16.	0.08480 (99012219) AT (22293.00, 22414.40) DC	41.	0.06537 (99030705) AT (22293.00, 22414.40) DC		
17.	0.08372 (99012219) AT (22293.00, 22414.40) DC	42.	0.06509 (99121403) AT (22293.00, 22414.40) DC		
18.	0.08267 (99021021) AT (22293.00, 22414.40) DC	43.	0.06488 (99022504) AT (22293.00, 22414.40) DC		
19.	0.07995 (99022624) AT (22293.00, 22414.40) DC	44.	0.06470 (99012801) AT (22293.00, 22414.40) DC		
20.	0.07932 (99021101) AT (22293.00, 22414.40) DC	45.	0.06457 (99010508) AT (22293.00, 22414.40) DC		
21.	0.07831 (99021101) AT (22293.00, 22414.40) DC	46.	0.06410 (99012801) AT (22293.00, 22414.40) DC		
22.	0.07765 (99091006) AT (22293.00, 22414.40) DC	47.	0.06405 (99022504) AT (22293.00, 22414.40) DC		
23.	0.07744 (99022624) AT (22293.00, 22414.40) DC	48.	0.06347 (99021702) AT (22293.00, 22414.40) DC		
24.	0.07661 (99090607) AT (22293.00, 22414.40) DC	49.	0.06341 (99072401) AT (22480.30, 22330.30) DC		
25.	0.07468 (99040107) AT (22293.00, 22414.40) DC	50.	0.06341 (99090905) AT (22480.30, 22330.30) DC		

*** RECEPTOR TYPES: GC = GRIDCART

- GP = GRIDPOLR
- DC = DISCCART
- DP = DISCPOLR
- BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02

*** DIOXIN Assessment (Hourly) *** 15:13:07

**MODELOPTs: PAGE 11

CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF OTHER IN PICOGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID
ALL	1ST HIGHEST VALUE IS 0.00172 AT (22480.30, 22330.30, 46.00, 10.00) DC	NA
	2ND HIGHEST VALUE IS 0.00169 AT (22480.30, 22330.30, 46.00, 1.50) DC	NA
	3RD HIGHEST VALUE IS 0.00092 AT (22480.30, 22330.30, 46.00, 20.00) DC	NA
	4TH HIGHEST VALUE IS 0.00069 AT (22293.00, 22414.40, 5.40, 30.00) DC	NA
	5TH HIGHEST VALUE IS 0.00065 AT (22293.00, 22414.40, 5.40, 20.00) DC	NA

6TH HIGHEST VALUE IS 0.00052 AT (22293.00, 22414.40, 5.40, 10.00) DC NA
 7TH HIGHEST VALUE IS 0.00040 AT (22293.00, 22414.40, 5.40, 1.50) DC NA
 8TH HIGHEST VALUE IS 0.00036 AT (22293.00, 22414.40, 5.40, 40.00) DC NA
 9TH HIGHEST VALUE IS 0.00020 AT (22480.30, 22330.30, 46.00, 30.00) DC NA
 10TH HIGHEST VALUE IS 0.00003 AT (22480.30, 22330.30, 46.00, 40.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** DIOXIN Assessment (Hourly) *** 15:13:07

**MODELOPTs: PAGE 12

CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN PICOGRAMS/M**3 **

GROUP ID	DATE AVERAGE CONC (YYMMDDHH)	NETWORK RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE GRID-ID
----------	------------------------------	---	-----------------

ALL HIGH 1ST HIGH VALUE IS	0.20362 ON 99091006: AT (22293.00, 22414.40, 5.40, 30.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.19951 ON 99012219: AT (22293.00, 22414.40, 5.40, 30.00)	DC	NA

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** DIOXIN Assessment (Hourly) *** 15:13:07

**MODELOPTs: PAGE 13

CONC RURAL ELEV FLGPOL GRDRIS

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 10 Warning Message(s)
 A Total of 817 Informational Message(s)
 A Total of 817 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****

MX W420 797 METQA :Wind Speed Out-of-Range. KURDAT= 99020305
 MX W420 1658 METQA :Wind Speed Out-of-Range. KURDAT= 99031102
 MX W420 1659 METQA :Wind Speed Out-of-Range. KURDAT= 99031103
 MX W420 6200 METQA :Wind Speed Out-of-Range. KURDAT= 99091608
 MX W420 6207 METQA :Wind Speed Out-of-Range. KURDAT= 99091615
 MX W420 6208 METQA :Wind Speed Out-of-Range. KURDAT= 99091616
 MX W420 6209 METQA :Wind Speed Out-of-Range. KURDAT= 99091617
 MX W420 6221 METQA :Wind Speed Out-of-Range. KURDAT= 99091705
 MX W420 6222 METQA :Wind Speed Out-of-Range. KURDAT= 99091706
 MX W420 6223 METQA :Wind Speed Out-of-Range. KURDAT= 99091707

 *** ISCST3 Finishes Successfully ***

TOC

**
 ** PROJECT Cheoy Lee Shipyard Excavation
 **
 CO STARTING
 CO TITLEONE Cheoy Lee Shipyard Excavation
 CO TITLETWO TOC Assessment (Hourly)
 CO MODELOPT GRDRIS CONC RURAL
 CO AVERTIME 1 ANNUAL
 CO TERRHGTS ELEV
 CO POLLUTID TOC
 CO RUNORNOT RUN
 CO ERRORFIL ERRORS.LST

CO FLAGPOLE 0.0
CO FINISHED

SO STARTING

SO ELEVUNIT METERS

```
**** ID Srtyp Xs Ys Zs
****
SO LOCATION S1 POINT 22520.3 22559.7 5.7
SO LOCATION S3 POINT 22473.1 22540.5 5.7
**** ID Emiss Stkght Stktmp Stkvel Stkdia
****
SO SRCPARAM S1 0.0187 8.0 298.0 13.2 0.3
SO SRCPARAM S3 0.02 8.0 373.0 8.0 0.4
SO EMISUNIT 1.0E6 gram/sec microgram/m3
SO SRCGROUP ALL
SO FINISHED
```

RE STARTING

RE ELEVUNIT METERS

** ASR

```
** Xcoord Ycoord Zelev Zflag
**
RE DISCCART 22480.3 22330.3 46.0 1.5
RE DISCCART 22480.3 22330.3 46.0 10.0
RE DISCCART 22480.3 22330.3 46.0 20.0
RE DISCCART 22480.3 22330.3 46.0 30.0
RE DISCCART 22480.3 22330.3 46.0 40.0
RE DISCCART 22293.0 22414.4 5.4 1.5
RE DISCCART 22293.0 22414.4 5.4 10.0
RE DISCCART 22293.0 22414.4 5.4 20.0
RE DISCCART 22293.0 22414.4 5.4 30.0
RE DISCCART 22293.0 22414.4 5.4 40.0
RE DISCCART 22656.1 24750.4 9.0 1.5
RE DISCCART 22656.1 24750.4 9.0 10.0
RE DISCCART 22656.1 24750.4 9.0 20.0
RE DISCCART 22656.1 24750.4 9.0 30.0
RE DISCCART 22656.1 24750.4 9.0 40.0
RE DISCCART 23791.9 23263.2 2.6 1.5
RE DISCCART 23791.9 23263.2 2.6 10.0
RE DISCCART 23791.9 23263.2 2.6 20.0
RE DISCCART 23791.9 23263.2 2.6 30.0
RE DISCCART 23791.9 23263.2 2.6 40.0
RE FINISHED
```

ME STARTING

```
ME INPUTFIL CCH99.met (4i2,2(1x,f8.4),1x,f5.1,1x,i1,2(1x,f6.1))
ME ANEMHGHT 98.5 METERS
ME SURFDATA 99999 1999
ME UAIRDATA 99999 1999
ME FINISHED
```

OU STARTING

OU RECTABLE ALLAVE FIRST SECOND

OU MAXTABLE ALLAVE 50

OU PLOTFILE 1 ALL first d_toc1.out

OU PLOTFILE ANNUAL ALL d_toc_a.out

OU FINISHED

```
*****
*** SETUP Finishes Successfully ***
*****
```

```
*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** TOC Assessment (Hourly) *** 15:13:04
**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS
```

```
*** MODEL SETUP OPTIONS SUMMARY ***
```

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --

**Model Uses NO DRY DEPLETION. DDPLETE = F

**Model Uses NO WET DEPLETION. WDPLETE = F

**NO WET SCAVENGING Data Provided.

**NO GAS DRY DEPOSITION Data Provided.

**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:

1. Gradual Plume Rise.
2. Stack-tip Downwash.

3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates ANNUAL Averages

**This Run Includes: 2 Source(s); 1 Source Group(s); and 20 Receptor(s)

**The Model Assumes A Pollutant Type of: TOC

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:

- Model Outputs Tables of ANNUAL Averages by Receptor
- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 98.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAM/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MIRCOGRAM/M3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: D-TOC.INP

**Output Print File: D-TOC.LST

**Detailed Error/Message File: ERRORS.LST

*** ISCS T3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: PAGE 2

CONC RURAL ELEV FLGPOL GRDRIS

*** POINT SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION RATE			
SOURCE ID	PART. CATS.	(USER UNITS)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	TEMP. (DEG.K)	EXIT VEL. (M/SEC)	DIAMETER (METERS)	EXISTS BY	SCALAR VARY

S1	0	0.18700E-01	22520.3	22559.7	5.7	8.00	298.00	13.20	0.30	NO	
S3	0	0.20000E-01	22473.1	22540.5	5.7	8.00	373.00	8.00	0.40	NO	

*** ISCS T3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: PAGE 3

CONC RURAL ELEV FLGPOL GRDRIS

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

ALL S1 ,S3
*** ISCS T3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: PAGE 4

CONC RURAL ELEV FLGPOL GRDRIS

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(22480.3, 22330.3, 46.0, 1.5);	(22480.3, 22330.3, 46.0, 10.0);
(22480.3, 22330.3, 46.0, 20.0);	(22480.3, 22330.3, 46.0, 30.0);
(22480.3, 22330.3, 46.0, 40.0);	(22293.0, 22414.4, 5.4, 1.5);
(22293.0, 22414.4, 5.4, 10.0);	(22293.0, 22414.4, 5.4, 20.0);
(22293.0, 22414.4, 5.4, 30.0);	(22293.0, 22414.4, 5.4, 40.0);
(22656.1, 24750.4, 9.0, 1.5);	(22656.1, 24750.4, 9.0, 10.0);
(22656.1, 24750.4, 9.0, 20.0);	(22656.1, 24750.4, 9.0, 30.0);

(22656.1, 24750.4, 9.0, 40.0); (23791.9, 23263.2, 2.6, 1.5);
 (23791.9, 23263.2, 2.6, 10.0); (23791.9, 23263.2, 2.6, 20.0);
 (23791.9, 23263.2, 2.6, 30.0); (23791.9, 23263.2, 2.6, 40.0);
 *** ISCSST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** TOC Assessment (Hourly) *** 15:13:04
 **MODELOPTs: PAGE 5
 CONC RURAL ELEV FLGPOL GRDRIS

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
 (1=YES; 0=NO)

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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
 (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
 (DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** ISCSST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** TOC Assessment (Hourly) *** 15:13:04
 **MODELOPTs: PAGE 6
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```

FILE: CCH99.met
FORMAT: (4I2,2(1X,F8.4),1X,F5.1,1X,I1,2(1X,F6.1))
SURFACE STATION NO.: 99999          UPPER AIR STATION NO.: 99999
NAME: UNKNOWN                       NAME: UNKNOWN
YEAR: 1999                          YEAR: 1999
  
```

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-0 IPCODE PRATE
 YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

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99 01 01 01 281.0 7.80 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 02 278.0 8.90 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 03 274.0 7.50 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 04 233.0 7.40 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 05 253.0 7.20 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 06 252.0 7.60 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 07 255.0 6.50 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 08 283.0 5.70 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 09 267.0 4.80 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 10 251.0 4.30 291.1 3 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 11 294.0 3.70 293.1 2 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 12 306.0 5.60 294.1 3 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
  
```

99 01 01 13	313.0	9.00	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 14	299.0	6.40	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 15	312.0	7.90	294.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 16	314.0	7.60	293.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 17	311.0	6.10	291.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 18	297.0	4.60	290.1	5	1271.9	1252.1	0.0000	0.0	0.0000	0	0.00
99 01 01 19	304.0	3.80	289.1	5	1262.4	1155.0	0.0000	0.0	0.0000	0	0.00
99 01 01 20	277.0	3.00	289.1	5	1253.0	1057.9	0.0000	0.0	0.0000	0	0.00
99 01 01 21	280.0	3.50	289.1	5	1243.5	960.9	0.0000	0.0	0.0000	0	0.00
99 01 01 22	282.0	5.60	289.1	4	1234.1	1234.1	0.0000	0.0	0.0000	0	0.00
99 01 01 23	280.0	5.20	289.1	4	1224.6	1224.6	0.0000	0.0	0.0000	0	0.00
99 01 01 24	260.0	4.00	289.1	5	1215.1	669.7	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
 FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
 *** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 7
 CONC

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S1 , S3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOC IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
22480.30	22330.30	0.74846	22480.30	22330.30	0.77445
22480.30	22330.30	0.39159	22480.30	22330.30	0.08291
22480.30	22330.30	0.01208	22293.00	22414.40	0.16549
22293.00	22414.40	0.23392	22293.00	22414.40	0.28152
22293.00	22414.40	0.18893	22293.00	22414.40	0.08135
22656.10	24750.40	0.00794	22656.10	24750.40	0.00778
22656.10	24750.40	0.00732	22656.10	24750.40	0.00660
22656.10	24750.40	0.00572	23791.90	23263.20	0.01095
23791.90	23263.20	0.01096	23791.90	23263.20	0.01075
23791.90	23263.20	0.00986	23791.90	23263.20	0.00825

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 8
 CONC

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S1 , S3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOC IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	19.15298	(99122009)	22480.30	22330.30	27.39435	(99072401)
22480.30	22330.30	12.53315	(99122107)	22480.30	22330.30	4.07248	(99092710)
22480.30	22330.30	2.28357	(99092710)	22293.00	22414.40	10.01794	(99060407)
22293.00	22414.40	30.61875	(99070306)	22293.00	22414.40	57.72849	(99022504)
22293.00	22414.40	43.69749	(99012219)	22293.00	22414.40	18.22924	(99051822)
22656.10	24750.40	4.44641	(99051820)	22656.10	24750.40	4.26078	(99051820)
22656.10	24750.40	3.71786	(99051820)	22656.10	24750.40	2.91746	(99051820)
22656.10	24750.40	2.02718	(99051820)	23791.90	23263.20	5.68858	(99060201)
23791.90	23263.20	6.06722	(99060201)	23791.90	23263.20	6.60627	(99060201)
23791.90	23263.20	6.41218	(99022421)	23791.90	23263.20	5.05120	(99022421)

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 9
 CONC

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S1 , S3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOC IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	19.15298	(99122010)	22480.30	22330.30	27.39434	(99090905)
22480.30	22330.30	12.47532	(99011216)	22480.30	22330.30	3.53972	(99122107)
22480.30	22330.30	1.62512	(99120214)	22293.00	22414.40	9.78480	(99012523)
22293.00	22414.40	22.87785	(99030705)	22293.00	22414.40	57.22661	(99012801)
22293.00	22414.40	42.87262	(99021101)	22293.00	22414.40	16.99229	(99012219)
22656.10	24750.40	2.71496	(99010519)	22656.10	24750.40	2.62540	(99010519)
22656.10	24750.40	2.36230	(99031823)	22656.10	24750.40	2.08956	(99031823)

22656.10 24750.40 1.75385 (99031823) 23791.90 23263.20 5.12663 (99022421)
23791.90 23263.20 5.63381 (99022421) 23791.90 23263.20 6.48444 (99022421)
23791.90 23263.20 6.24599 (99060201) 23791.90 23263.20 4.77996 (99060201)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: PAGE 10

CONC RURAL ELEV FLGPOL GRDRIS

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S1 , S3 ,

** CONC OF TOC IN MIRCOGRAM/M3 **

RANK CONC (YYMMDDHH) AT RECEPTOR (XR,YR) OF TYPE RANK CONC (YYMMDDHH) AT RECEPTOR (XR,YR) OF TYPE

1.	57.72849 (99022504) AT (22293.00, 22414.40) DC	26.	26.36126 (99021805) AT (22480.30, 22330.30) DC
2.	57.22661 (99012801) AT (22293.00, 22414.40) DC	27.	26.36126 (99022408) AT (22480.30, 22330.30) DC
3.	56.18148 (99030705) AT (22293.00, 22414.40) DC	28.	26.36126 (99021806) AT (22480.30, 22330.30) DC
4.	53.17105 (99021101) AT (22293.00, 22414.40) DC	29.	26.18970 (99022407) AT (22480.30, 22330.30) DC
5.	46.24982 (99070306) AT (22293.00, 22414.40) DC	30.	25.91269 (99051822) AT (22293.00, 22414.40) DC
6.	43.69749 (99012219) AT (22293.00, 22414.40) DC	31.	25.55102 (99112503) AT (22293.00, 22414.40) DC
7.	42.87262 (99021101) AT (22293.00, 22414.40) DC	32.	24.13832 (99013120) AT (22293.00, 22414.40) DC
8.	42.43932 (99012219) AT (22293.00, 22414.40) DC	33.	23.90156 (99122607) AT (22293.00, 22414.40) DC
9.	41.73440 (99091006) AT (22293.00, 22414.40) DC	34.	23.89822 (99070306) AT (22293.00, 22414.40) DC
10.	38.84990 (99022624) AT (22293.00, 22414.40) DC	35.	23.59175 (99121403) AT (22293.00, 22414.40) DC
11.	38.83717 (99091006) AT (22293.00, 22414.40) DC	36.	22.94664 (99120923) AT (22293.00, 22414.40) DC
12.	37.18238 (99022504) AT (22293.00, 22414.40) DC	37.	22.87785 (99030705) AT (22293.00, 22414.40) DC
13.	36.02795 (99012801) AT (22293.00, 22414.40) DC	38.	22.51323 (99120923) AT (22293.00, 22414.40) DC
14.	34.90892 (99030705) AT (22293.00, 22414.40) DC	39.	22.48760 (99051207) AT (22293.00, 22414.40) DC
15.	30.61875 (99070306) AT (22293.00, 22414.40) DC	40.	22.28209 (99040921) AT (22293.00, 22414.40) DC
16.	29.60395 (99022624) AT (22293.00, 22414.40) DC	41.	22.23096 (99090202) AT (22293.00, 22414.40) DC
17.	27.53853 (99051822) AT (22293.00, 22414.40) DC	42.	22.11527 (99081906) AT (22293.00, 22414.40) DC
18.	27.39435 (99072401) AT (22480.30, 22330.30) DC	43.	22.08369 (99030801) AT (22293.00, 22414.40) DC
19.	27.39434 (99090905) AT (22480.30, 22330.30) DC	44.	21.87001 (99051404) AT (22293.00, 22414.40) DC
20.	27.39434 (99091107) AT (22480.30, 22330.30) DC	45.	21.68416 (99121403) AT (22293.00, 22414.40) DC
21.	27.37471 (99091005) AT (22480.30, 22330.30) DC	46.	21.58566 (99040921) AT (22293.00, 22414.40) DC
22.	27.25924 (99051404) AT (22293.00, 22414.40) DC	47.	21.54327 (99021021) AT (22293.00, 22414.40) DC
23.	26.98311 (99051306) AT (22480.30, 22330.30) DC	48.	21.21524 (99122607) AT (22293.00, 22414.40) DC
24.	26.87962 (99121021) AT (22293.00, 22414.40) DC	49.	21.08564 (99013120) AT (22293.00, 22414.40) DC
25.	26.75368 (99112505) AT (22480.30, 22330.30) DC	50.	20.72576 (99122601) AT (22293.00, 22414.40) DC

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: PAGE 11

CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF TOC IN MIRCOGRAM/M3 **

GROUP ID AVERAGE CONC NETWORK RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

ALL	1ST HIGHEST VALUE IS	0.77445 AT (22480.30, 22330.30, 46.00, 10.00) DC NA
	2ND HIGHEST VALUE IS	0.74846 AT (22480.30, 22330.30, 46.00, 1.50) DC NA
	3RD HIGHEST VALUE IS	0.39159 AT (22480.30, 22330.30, 46.00, 20.00) DC NA
	4TH HIGHEST VALUE IS	0.28152 AT (22293.00, 22414.40, 5.40, 20.00) DC NA
	5TH HIGHEST VALUE IS	0.23392 AT (22293.00, 22414.40, 5.40, 10.00) DC NA
	6TH HIGHEST VALUE IS	0.18893 AT (22293.00, 22414.40, 5.40, 30.00) DC NA
	7TH HIGHEST VALUE IS	0.16549 AT (22293.00, 22414.40, 5.40, 1.50) DC NA
	8TH HIGHEST VALUE IS	0.08291 AT (22480.30, 22330.30, 46.00, 30.00) DC NA
	9TH HIGHEST VALUE IS	0.08135 AT (22293.00, 22414.40, 5.40, 40.00) DC NA
	10TH HIGHEST VALUE IS	0.01208 AT (22480.30, 22330.30, 46.00, 40.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: PAGE 12

CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF TOC IN MIRCOGRAM/M3 **

GROUP ID	DATE AVERAGE CONC (YYMMDDHH)	NETWORK RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	GRID-ID
----------	---------------------------------	--	---------	---------

ALL HIGH 1ST HIGH VALUE IS 57.72849 ON 99022504: AT (22293.00, 22414.40, 5.40, 20.00) DC NA
HIGH 2ND HIGH VALUE IS 57.22661 ON 99012801: AT (22293.00, 22414.40, 5.40, 20.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** TOC Assessment (Hourly) *** 15:13:04

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS
CONC PAGE 13

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 10 Warning Message(s)
A Total of 817 Informational Message(s)
A Total of 817 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W420 797 METQA :Wind Speed Out-of-Range. KURDAT= 99020305
MX W420 1658 METQA :Wind Speed Out-of-Range. KURDAT= 99031102
MX W420 1659 METQA :Wind Speed Out-of-Range. KURDAT= 99031103
MX W420 6200 METQA :Wind Speed Out-of-Range. KURDAT= 99091608
MX W420 6207 METQA :Wind Speed Out-of-Range. KURDAT= 99091615
MX W420 6208 METQA :Wind Speed Out-of-Range. KURDAT= 99091616
MX W420 6209 METQA :Wind Speed Out-of-Range. KURDAT= 99091617
MX W420 6221 METQA :Wind Speed Out-of-Range. KURDAT= 99091705
MX W420 6222 METQA :Wind Speed Out-of-Range. KURDAT= 99091706
MX W420 6223 METQA :Wind Speed Out-of-Range. KURDAT= 99091707

*** ISCST3 Finishes Successfully ***

Dibenz(a,h)anthracene

**
** PROJECT Cheoy Lee Shipyard Excavation
**
CO STARTING
CO TITLEONE Cheoy Lee Shipyard Excavation
CO TITLETWO Toxic(organic matter) Assessment (Hourly)
CO MODELOPT GRDRIS CONC RURAL
CO AVERTIME 1 ANNUAL
CO TERRHGTS ELEV
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL ERRORS.LST
CO FLAGPOLE 0.0
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
**** ID Srctyp Xs Ys Zs

SO LOCATION S12 POINT 22473.1 22540.5 5.7
**** ID Emiss Stkhgt Stktmp Stkvel Stkdia

SO SRCPARAM S12 0.00365 8.0 373.0 8.0 0.4
SO EMISUNIT 1.0E6 gram/sec microgram/m3
SO SRCGROUP DIB S12
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
** ASR
** Xcoord Ycoord Zelev Zflag

```

**
RE DISCCART 22480.3 22330.3 46.0 1.5
RE DISCCART 22480.3 22330.3 46.0 10.0
RE DISCCART 22480.3 22330.3 46.0 20.0
RE DISCCART 22480.3 22330.3 46.0 30.0
RE DISCCART 22480.3 22330.3 46.0 40.0
RE DISCCART 22293.0 22414.4 5.4 1.5
RE DISCCART 22293.0 22414.4 5.4 10.0
RE DISCCART 22293.0 22414.4 5.4 20.0
RE DISCCART 22293.0 22414.4 5.4 30.0
RE DISCCART 22293.0 22414.4 5.4 40.0
RE DISCCART 22656.1 24750.4 9.0 1.5
RE DISCCART 22656.1 24750.4 9.0 10.0
RE DISCCART 22656.1 24750.4 9.0 20.0
RE DISCCART 22656.1 24750.4 9.0 30.0
RE DISCCART 22656.1 24750.4 9.0 40.0
RE DISCCART 23791.9 23263.2 2.6 1.5
RE DISCCART 23791.9 23263.2 2.6 10.0
RE DISCCART 23791.9 23263.2 2.6 20.0
RE DISCCART 23791.9 23263.2 2.6 30.0
RE DISCCART 23791.9 23263.2 2.6 40.0
RE FINISHED

```

```

ME STARTING
ME INPUTFIL CCH99.met (4i2,2(1x,f8.4),1x,f5.1,1x,il,2(1x,f6.1))
ME ANEMHGHT 98.5 METERS
ME SURFDATA 99999 1999
ME UAIRDATA 99999 1999
ME FINISHED

```

```

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU MAXTABLE ALLAVE 50
OU PLOTFILE 1 DIB first_d_DIB1.out
OU PLOTFILE ANNUAL DIB d_DIB_a.out
OU FINISHED

```

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*****
*** SETUP Finishes Successfully ***
*****

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*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15
**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS

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*** MODEL SETUP OPTIONS SUMMARY ***

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**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates ANNUAL Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 20 Receptor(s)

**The Model Assumes A Pollutant Type of: OTHER

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor

```

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 98.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAM/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MIRCOCGRAM/M3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: d-org.inp
**Output Print File: d-org.lst

**Detailed Error/Message File: ERRORS.LST

*** ISCAST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation 01/16/02

*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 2

CONC RURAL ELEV FLGPOL GRDRIS

*** POINT SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION RATE	
SOURCE ID	PART. (USER UNITS)	X	Y	ELEV. (METERS)	HEIGHT (METERS)	TEMP. (DEG.K)	EXIT VEL. (M/SEC)	DIAMETER (METERS)	EXISTS SCALAR VARY BY

S12	0	0.36500E-02	22473.1	22540.5	5.7	8.00	373.00	8.00	0.40	NO		
-----	---	-------------	---------	---------	-----	------	--------	------	------	----	--	--

*** ISCAST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation 01/16/02

*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 3

CONC RURAL ELEV FLGPOL GRDRIS

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

DIB S12
*** ISCAST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation 01/16/02

*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 4

CONC RURAL ELEV FLGPOL GRDRIS

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(22480.3, 22330.3, 46.0, 1.5);	(22480.3, 22330.3, 46.0, 10.0);
(22480.3, 22330.3, 46.0, 20.0);	(22480.3, 22330.3, 46.0, 30.0);
(22480.3, 22330.3, 46.0, 40.0);	(22293.0, 22414.4, 5.4, 1.5);
(22293.0, 22414.4, 5.4, 10.0);	(22293.0, 22414.4, 5.4, 20.0);
(22293.0, 22414.4, 5.4, 30.0);	(22293.0, 22414.4, 5.4, 40.0);
(22656.1, 24750.4, 9.0, 1.5);	(22656.1, 24750.4, 9.0, 10.0);
(22656.1, 24750.4, 9.0, 20.0);	(22656.1, 24750.4, 9.0, 30.0);
(22656.1, 24750.4, 9.0, 40.0);	(23791.9, 23263.2, 2.6, 1.5);
(23791.9, 23263.2, 2.6, 10.0);	(23791.9, 23263.2, 2.6, 20.0);
(23791.9, 23263.2, 2.6, 30.0);	(23791.9, 23263.2, 2.6, 40.0);

*** ISCAST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation 01/16/02

*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 5

CONC RURAL ELEV FLGPOL GRDRIS

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 6

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: CCH99.met
FORMAT: (4I2,2(1X,F8.4),1X,F5.1,1X,I1,2(1X,F6.1))
SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1999 YEAR: 1999

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-0 IPCODE PRATE
YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

99 01 01 01 281.0 7.80 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 02 278.0 8.90 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 03 274.0 7.50 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 04 233.0 7.40 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 05 253.0 7.20 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 06 252.0 7.60 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 07 255.0 6.50 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 08 283.0 5.70 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 09 267.0 4.80 290.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 10 251.0 4.30 291.1 3 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 11 294.0 3.70 293.1 2 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 12 306.0 5.60 294.1 3 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 13 313.0 9.00 295.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 14 299.0 6.40 295.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 15 312.0 7.90 294.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 16 314.0 7.60 293.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 17 311.0 6.10 291.1 4 1274.0 1274.0 0.0000 0.0 0.0000 0 0.00
99 01 01 18 297.0 4.60 290.1 5 1271.9 1252.1 0.0000 0.0 0.0000 0 0.00
99 01 01 19 304.0 3.80 289.1 5 1262.4 1155.0 0.0000 0.0 0.0000 0 0.00
99 01 01 20 277.0 3.00 289.1 5 1253.0 1057.9 0.0000 0.0 0.0000 0 0.00
99 01 01 21 280.0 3.50 289.1 5 1243.5 960.9 0.0000 0.0 0.0000 0 0.00
99 01 01 22 282.0 5.60 289.1 4 1234.1 1234.1 0.0000 0.0 0.0000 0 0.00
99 01 01 23 280.0 5.20 289.1 4 1224.6 1224.6 0.0000 0.0 0.0000 0 0.00
99 01 01 24 260.0 4.00 289.1 5 1215.1 669.7 0.0000 0.0 0.0000 0 0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 7

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: DIB ***
 INCLUDING SOURCE(S): S12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
22480.30	22330.30	0.06170	22480.30	22330.30	0.06266
22480.30	22330.30	0.03348	22480.30	22330.30	0.00713
22480.30	22330.30	0.00110	22293.00	22414.40	0.01457
22293.00	22414.40	0.01899	22293.00	22414.40	0.02375
22293.00	22414.40	0.02535	22293.00	22414.40	0.01301
22656.10	24750.40	0.00070	22656.10	24750.40	0.00069
22656.10	24750.40	0.00066	22656.10	24750.40	0.00062
22656.10	24750.40	0.00055	23791.90	23263.20	0.00085
23791.90	23263.20	0.00087	23791.90	23263.20	0.00091
23791.90	23263.20	0.00090	23791.90	23263.20	0.00082

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 8
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: DIB ***
 INCLUDING SOURCE(S): S12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
22480.30	22330.30	2.09890 (99011902)	22480.30	22330.30	2.31455 (99072401)
22480.30	22330.30	1.36445 (99122107)	22480.30	22330.30	0.42712 (99122107)
22480.30	22330.30	0.23089 (99111813)	22293.00	22414.40	0.90297 (99060407)
22293.00	22414.40	1.40400 (99030701)	22293.00	22414.40	3.30471 (99091006)
22293.00	22414.40	7.43195 (99091006)	22293.00	22414.40	3.22688 (99051822)
22656.10	24750.40	0.24118 (99051820)	22656.10	24750.40	0.24485 (99051820)
22656.10	24750.40	0.24737 (99051820)	22656.10	24750.40	0.23176 (99051820)
22656.10	24750.40	0.19085 (99051820)	23791.90	23263.20	0.28785 (99060201)
23791.90	23263.20	0.35556 (99060201)	23791.90	23263.20	0.50592 (99060201)
23791.90	23263.20	0.60672 (99060201)	23791.90	23263.20	0.56611 (99022421)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 9
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: DIB ***
 INCLUDING SOURCE(S): S12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
22480.30	22330.30	2.09776 (99012802)	22480.30	22330.30	2.31455 (99090905)
22480.30	22330.30	1.35390 (99011216)	22480.30	22330.30	0.41408 (99011216)
22480.30	22330.30	0.21267 (99092710)	22293.00	22414.40	0.87462 (99110904)
22293.00	22414.40	1.35250 (99060407)	22293.00	22414.40	3.05570 (99012219)
22293.00	22414.40	7.28218 (99012219)	22293.00	22414.40	3.09525 (99012219)
22656.10	24750.40	0.20786 (99070702)	22656.10	24750.40	0.20541 (99070702)
22656.10	24750.40	0.19757 (99070702)	22656.10	24750.40	0.18376 (99070702)
22656.10	24750.40	0.16383 (99070702)	23791.90	23263.20	0.28017 (99022421)
23791.90	23263.20	0.34774 (99022421)	23791.90	23263.20	0.49915 (99022421)
23791.90	23263.20	0.60405 (99022421)	23791.90	23263.20	0.56319 (99060201)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 10
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: DIB ***
 INCLUDING SOURCE(S): S12 ,

** CONC OF OTHER IN MIRCOGRAM/M3 **

RANK	CONC (YYMMDDHH) AT RECEPTOR (XR,YR) OF TYPE	RANK	CONC (YYMMDDHH) AT RECEPTOR (XR,YR) OF TYPE
1.	7.43195 (99091006) AT (22293.00, 22414.40) DC	26.	2.66853 (99051404) AT (22293.00, 22414.40) DC
2.	7.28218 (99012219) AT (22293.00, 22414.40) DC	27.	2.66637 (99101602) AT (22293.00, 22414.40) DC
3.	6.84784 (99022624) AT (22293.00, 22414.40) DC	28.	2.65346 (99120923) AT (22293.00, 22414.40) DC
4.	6.81184 (99021101) AT (22293.00, 22414.40) DC	29.	2.62358 (99021804) AT (22293.00, 22414.40) DC
5.	5.59978 (99030705) AT (22293.00, 22414.40) DC	30.	2.60300 (99022223) AT (22293.00, 22414.40) DC
6.	5.58628 (99012801) AT (22293.00, 22414.40) DC	31.	2.58308 (99040804) AT (22293.00, 22414.40) DC
7.	5.57262 (99022504) AT (22293.00, 22414.40) DC	32.	2.55450 (99031323) AT (22293.00, 22414.40) DC

8.	4.03625 (99070306) AT (22293.00, 22414.40) DC	33.	2.55439 (99012002) AT (22293.00, 22414.40) DC
9.	4.01992 (99081906) AT (22293.00, 22414.40) DC	34.	2.55131 (99122607) AT (22293.00, 22414.40) DC
10.	4.00142 (99030801) AT (22293.00, 22414.40) DC	35.	2.55075 (99040921) AT (22293.00, 22414.40) DC
11.	3.50272 (99051822) AT (22293.00, 22414.40) DC	36.	2.53721 (99122601) AT (22293.00, 22414.40) DC
12.	3.30772 (99040921) AT (22293.00, 22414.40) DC	37.	2.50254 (99020722) AT (22293.00, 22414.40) DC
13.	3.30471 (99091006) AT (22293.00, 22414.40) DC	38.	2.49183 (99112504) AT (22293.00, 22414.40) DC
14.	3.23486 (99060505) AT (22293.00, 22414.40) DC	39.	2.45820 (99051404) AT (22293.00, 22414.40) DC
15.	3.22688 (99051822) AT (22293.00, 22414.40) DC	40.	2.42574 (99060505) AT (22293.00, 22414.40) DC
16.	3.09525 (99012219) AT (22293.00, 22414.40) DC	41.	2.38590 (99030705) AT (22293.00, 22414.40) DC
17.	3.05570 (99012219) AT (22293.00, 22414.40) DC	42.	2.37590 (99121403) AT (22293.00, 22414.40) DC
18.	3.01735 (99021021) AT (22293.00, 22414.40) DC	43.	2.36796 (99022504) AT (22293.00, 22414.40) DC
19.	2.91826 (99022624) AT (22293.00, 22414.40) DC	44.	2.36149 (99012801) AT (22293.00, 22414.40) DC
20.	2.89514 (99021101) AT (22293.00, 22414.40) DC	45.	2.35664 (99010508) AT (22293.00, 22414.40) DC
21.	2.85815 (99021101) AT (22293.00, 22414.40) DC	46.	2.33969 (99012801) AT (22293.00, 22414.40) DC
22.	2.83422 (99091006) AT (22293.00, 22414.40) DC	47.	2.33770 (99022504) AT (22293.00, 22414.40) DC
23.	2.82657 (99022624) AT (22293.00, 22414.40) DC	48.	2.31664 (99021702) AT (22293.00, 22414.40) DC
24.	2.79628 (99090607) AT (22293.00, 22414.40) DC	49.	2.31455 (99072401) AT (22480.30, 22330.30) DC
25.	2.72584 (99040107) AT (22293.00, 22414.40) DC	50.	2.31455 (99090905) AT (22480.30, 22330.30) DC

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 11
CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

GROUP ID NETWORK
AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

DIB 1ST HIGHEST VALUE IS 0.06266 AT (22480.30, 22330.30, 46.00, 10.00) DC NA
2ND HIGHEST VALUE IS 0.06170 AT (22480.30, 22330.30, 46.00, 1.50) DC NA
3RD HIGHEST VALUE IS 0.03348 AT (22480.30, 22330.30, 46.00, 20.00) DC NA
4TH HIGHEST VALUE IS 0.02535 AT (22293.00, 22414.40, 5.40, 30.00) DC NA
5TH HIGHEST VALUE IS 0.02375 AT (22293.00, 22414.40, 5.40, 20.00) DC NA
6TH HIGHEST VALUE IS 0.01899 AT (22293.00, 22414.40, 5.40, 10.00) DC NA
7TH HIGHEST VALUE IS 0.01457 AT (22293.00, 22414.40, 5.40, 1.50) DC NA
8TH HIGHEST VALUE IS 0.01301 AT (22293.00, 22414.40, 5.40, 40.00) DC NA
9TH HIGHEST VALUE IS 0.00713 AT (22480.30, 22330.30, 46.00, 30.00) DC NA
10TH HIGHEST VALUE IS 0.00110 AT (22480.30, 22330.30, 46.00, 40.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 12
CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

GROUP ID DATE NETWORK
AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

DIB HIGH 1ST HIGH VALUE IS 7.43195 ON 99091006: AT (22293.00, 22414.40, 5.40, 30.00) DC NA
HIGH 2ND HIGH VALUE IS 7.28218 ON 99012219: AT (22293.00, 22414.40, 5.40, 30.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:15

**MODELOPTs: PAGE 13
CONC RURAL ELEV FLGPOL GRDRIS

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 10 Warning Message(s)
A Total of 817 Informational Message(s)

A Total of 817 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W420 797 METQA :Wind Speed Out-of-Range. KURDAT= 99020305
MX W420 1658 METQA :Wind Speed Out-of-Range. KURDAT= 99031102
MX W420 1659 METQA :Wind Speed Out-of-Range. KURDAT= 99031103
MX W420 6200 METQA :Wind Speed Out-of-Range. KURDAT= 99091608
MX W420 6207 METQA :Wind Speed Out-of-Range. KURDAT= 99091615
MX W420 6208 METQA :Wind Speed Out-of-Range. KURDAT= 99091616
MX W420 6209 METQA :Wind Speed Out-of-Range. KURDAT= 99091617
MX W420 6221 METQA :Wind Speed Out-of-Range. KURDAT= 99091705
MX W420 6222 METQA :Wind Speed Out-of-Range. KURDAT= 99091706
MX W420 6223 METQA :Wind Speed Out-of-Range. KURDAT= 99091707

*** IS CST3 Finishes Successfully ***

PCB

**
** PROJECT Cheoy Lee Shipyard Excavation
**
CO STARTING
CO TITLEONE Cheoy Lee Shipyard Excavation
CO TITLETWO Toxic(organic matter) Assessment (Hourly)
CO MODELOPT GRDRIS CONC RURAL
CO AVERTIME 1 ANNUAL
CO TERRHGTS ELEV
CO POLLUTID OTHER
CO RUNORNOT RUN
CO ERRORFIL ERRORS.LST
CO FLAGPOLE 0.0
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
**** ID Src typ Xs Ys Zs

SO LOCATION S2 POINT 22473.1 22540.5 5.7
**** ID Emiss Stk hgt Stk tmp Stk vel Stk dia

SO SRCPARAM S2 0.185556 8.0 373.0 8.0 0.4
SO EMISUNIT 1.0E6 gram/sec microgram/m3
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
** ASR
** Xcoord Ycoord Zelev Zflag
**
RE DISCCART 22480.3 22330.3 46.0 1.5
RE DISCCART 22480.3 22330.3 46.0 10.0
RE DISCCART 22480.3 22330.3 46.0 20.0
RE DISCCART 22480.3 22330.3 46.0 30.0
RE DISCCART 22480.3 22330.3 46.0 40.0
RE DISCCART 22293.0 22414.4 5.4 1.5
RE DISCCART 22293.0 22414.4 5.4 10.0
RE DISCCART 22293.0 22414.4 5.4 20.0
RE DISCCART 22293.0 22414.4 5.4 30.0
RE DISCCART 22293.0 22414.4 5.4 40.0
RE DISCCART 22656.1 24750.4 9.0 1.5
RE DISCCART 22656.1 24750.4 9.0 10.0
RE DISCCART 22656.1 24750.4 9.0 20.0
RE DISCCART 22656.1 24750.4 9.0 30.0
RE DISCCART 22656.1 24750.4 9.0 40.0
RE DISCCART 23791.9 23263.2 2.6 1.5
RE DISCCART 23791.9 23263.2 2.6 10.0
RE DISCCART 23791.9 23263.2 2.6 20.0
RE DISCCART 23791.9 23263.2 2.6 30.0
RE DISCCART 23791.9 23263.2 2.6 40.0
RE FINISHED

ME STARTING
ME INPUTFIL CCH99.met (4i2,2(1x,f8.4),1x,f5.1,1x,il,2(1x,f6.1))
ME ANEMHGHT 98.5 METERS
ME SURFDATA 99999 1999
ME UAIRDATA 99999 1999
ME FINISHED

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU MAXTABLE 50
OU PLOTFILE 1 ALL first d_pcb1.out
OU PLOTFILE ANNUAL all d_pcb_a.out
OU FINISHED

*** SETUP Finishes Successfully ***

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:19
**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates ANNUAL Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 20 Receptor(s)

**The Model Assumes A Pollutant Type of: OTHER

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 98.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAM/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MIRCORG/M3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: d-pcb.inp

**Output Print File: d-pcb.lst

**Detailed Error/Message File: ERRORS.LST

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*** Toxic(organic matter) Assessment (Hourly) *** 15:13:19

**MODELOPTs: PAGE 2
CONC RURAL ELEV FLGPOL GRDRIS

*** POINT SOURCE DATA ***

NUMBER EMISSION RATE BASE STACK STACK STACK STACK BUILDING EMISSION RATE
SOURCE PART. (USER UNITS) X Y ELEV. HEIGHT TEMP. EXIT VEL. DIAMETER EXISTS SCALAR VARY
ID CATS. (METERS) (METERS) (METERS) (METERS) (DEG.K) (M/SEC) (METERS) BY

S2 0 0.18556E+00 22473.1 22540.5 5.7 8.00 373.00 8.00 0.40 NO
*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:19
**MODELOPTs: PAGE 3
CONC RURAL ELEV FLGPOL GRDRIS

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID

SOURCE IDs

ALL S2 ,
*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:19
**MODELOPTs: PAGE 4
CONC RURAL ELEV FLGPOL GRDRIS

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(22480.3, 22330.3, 46.0, 1.5); (22480.3, 22330.3, 46.0, 10.0);
(22480.3, 22330.3, 46.0, 20.0); (22480.3, 22330.3, 46.0, 30.0);
(22480.3, 22330.3, 46.0, 40.0); (22293.0, 22414.4, 5.4, 1.5);
(22293.0, 22414.4, 5.4, 10.0); (22293.0, 22414.4, 5.4, 20.0);
(22293.0, 22414.4, 5.4, 30.0); (22293.0, 22414.4, 5.4, 40.0);
(22656.1, 24750.4, 9.0, 1.5); (22656.1, 24750.4, 9.0, 10.0);
(22656.1, 24750.4, 9.0, 20.0); (22656.1, 24750.4, 9.0, 30.0);
(22656.1, 24750.4, 9.0, 40.0); (23791.9, 23263.2, 2.6, 1.5);
(23791.9, 23263.2, 2.6, 10.0); (23791.9, 23263.2, 2.6, 20.0);
(23791.9, 23263.2, 2.6, 30.0); (23791.9, 23263.2, 2.6, 40.0);
*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02
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**MODELOPTs: PAGE 5
CONC RURAL ELEV FLGPOL GRDRIS

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
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1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

Table with 7 columns: STABILITY CATEGORY, WIND SPEED CATEGORY 1, 2, 3, 4, 5, 6. Rows A-F show values ranging from .70000E-01 to .55000E+00.

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***

(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

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CONC RURAL ELEV FLGPOL GRDRIS

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: CCH99.met
 FORMAT: (4I2,2(1X,F8.4),1X,F5.1,1X,11,2(1X,F6.1))
 SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999
 NAME: UNKNOWN NAME: UNKNOWN
 YEAR: 1999 YEAR: 1999

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-0 IPCODE PRATE
 YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

99 01 01 01	281.0	7.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 02	278.0	8.90	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 03	274.0	7.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 04	233.0	7.40	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 05	253.0	7.20	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 06	252.0	7.60	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 07	255.0	6.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 08	283.0	5.70	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 09	267.0	4.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 10	251.0	4.30	291.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 11	294.0	3.70	293.1	2	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 12	306.0	5.60	294.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 13	313.0	6.00	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 14	299.0	9.40	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 15	312.0	7.90	294.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 16	314.0	7.60	293.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 17	311.0	6.10	291.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99 01 01 18	297.0	4.60	290.1	5	1271.9	1252.1	0.0000	0.0	0.0000	0	0.00
99 01 01 19	304.0	3.80	289.1	5	1262.4	1155.0	0.0000	0.0	0.0000	0	0.00
99 01 01 20	277.0	3.00	289.1	5	1253.0	1057.9	0.0000	0.0	0.0000	0	0.00
99 01 01 21	280.0	3.50	289.1	5	1243.5	960.9	0.0000	0.0	0.0000	0	0.00
99 01 01 22	282.0	5.60	289.1	4	1234.1	1234.1	0.0000	0.0	0.0000	0	0.00
99 01 01 23	280.0	5.20	289.1	4	1224.6	1224.6	0.0000	0.0	0.0000	0	0.00
99 01 01 24	260.0	4.00	289.1	5	1215.1	669.7	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.

FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02

*** Toxic(organic matter) Assessment (Hourly) *** 15:13:19

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CONC RURAL ELEV FLGPOL GRDRIS

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOCGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
22480.30	22330.30	3.13649	22480.30	22330.30	3.18528
22480.30	22330.30	1.70222	22480.30	22330.30	0.36252
22480.30	22330.30	0.05575	22293.00	22414.40	0.74076
22293.00	22414.40	0.96535	22293.00	22414.40	1.20724
22293.00	22414.40	1.28860	22293.00	22414.40	0.66147
22656.10	24750.40	0.03562	22656.10	24750.40	0.03518
22656.10	24750.40	0.03378	22656.10	24750.40	0.03135
22656.10	24750.40	0.02796	23791.90	23263.20	0.04310
23791.90	23263.20	0.04415	23791.90	23263.20	0.04608
23791.90	23263.20	0.04595	23791.90	23263.20	0.04166

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
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**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 8
CONC

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	106.70246	(99011902)	22480.30	22330.30	117.66543	(99072401)
22480.30	22330.30	69.36502	(99122107)	22480.30	22330.30	21.71340	(99122107)
22480.30	22330.30	11.73793	(99111813)	22293.00	22414.40	45.90438	(99060407)
22293.00	22414.40	71.37553	(99030701)	22293.00	22414.40	168.00220	(99091806)
22293.00	22414.40	377.82004	(99091006)	22293.00	22414.40	164.04555	(99051822)
22656.10	24750.40	12.26089	(99051820)	22656.10	24750.40	12.44753	(99051820)
22656.10	24750.40	12.57578	(99051820)	22656.10	24750.40	11.78203	(99051820)
22656.10	24750.40	9.70250	(99051820)	23791.90	23263.20	14.63374	(99060201)
23791.90	23263.20	18.07579	(99060201)	23791.90	23263.20	25.71944	(99060201)
23791.90	23263.20	30.84389	(99060201)	23791.90	23263.20	28.77956	(99022421)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
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**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 9
CONC

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	106.64434	(99012802)	22480.30	22330.30	117.66541	(99090905)
22480.30	22330.30	68.82839	(99012116)	22480.30	22330.30	21.05093	(99110216)
22480.30	22330.30	10.81142	(99092710)	22293.00	22414.40	44.46313	(99110904)
22293.00	22414.40	68.75750	(99060407)	22293.00	22414.40	155.34360	(99012219)
22293.00	22414.40	370.20609	(99012219)	22293.00	22414.40	157.35387	(99012219)
22656.10	24750.40	10.56711	(99070702)	22656.10	24750.40	10.44258	(99070702)
22656.10	24750.40	10.04391	(99070702)	22656.10	24750.40	9.34184	(99070702)
22656.10	24750.40	8.32882	(99070702)	23791.90	23263.20	14.24304	(99022421)
23791.90	23263.20	17.67827	(99022421)	23791.90	23263.20	25.37564	(99022421)
23791.90	23263.20	30.70841	(99022421)	23791.90	23263.20	28.63113	(99060201)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:19

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 10
CONC

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

** CONC OF OTHER IN MIRCOGRAM/M3 **

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR) OF TYPE
1.	377.82004	(99091006)	AT (	22293.00, 22414.40) DC	26.	135.66089	(99051404)	AT (	22293.00, 22414.40) DC
2.	370.20609	(99012219)	AT (	22293.00, 22414.40) DC	27.	135.55115	(99101602)	AT (	22293.00, 22414.40) DC
3.	348.12524	(99022624)	AT (	22293.00, 22414.40) DC	28.	134.89488	(99120923)	AT (	22293.00, 22414.40) DC
4.	346.29544	(99021101)	AT (	22293.00, 22414.40) DC	29.	133.37564	(99021804)	AT (	22293.00, 22414.40) DC
5.	284.67734	(99030705)	AT (	22293.00, 22414.40) DC	30.	132.32918	(99022223)	AT (	22293.00, 22414.40) DC
6.	283.99121	(99012801)	AT (	22293.00, 22414.40) DC	31.	131.31671	(99040804)	AT (	22293.00, 22414.40) DC
7.	283.29697	(99022504)	AT (	22293.00, 22414.40) DC	32.	129.86356	(99031323)	AT (	22293.00, 22414.40) DC
8.	205.19188	(99070306)	AT (	22293.00, 22414.40) DC	33.	129.85835	(99012002)	AT (	22293.00, 22414.40) DC
9.	204.36182	(99081906)	AT (	22293.00, 22414.40) DC	34.	129.70135	(99122607)	AT (	22293.00, 22414.40) DC
10.	203.42120	(99030801)	AT (	22293.00, 22414.40) DC	35.	129.67322	(99040921)	AT (	22293.00, 22414.40) DC
11.	178.06848	(99051822)	AT (	22293.00, 22414.40) DC	36.	128.98494	(99122601)	AT (	22293.00, 22414.40) DC
12.	168.15530	(99040921)	AT (	22293.00, 22414.40) DC	37.	127.22212	(99020722)	AT (	22293.00, 22414.40) DC
13.	168.00220	(99091006)	AT (	22293.00, 22414.40) DC	38.	126.67789	(990112504)	AT (	22293.00, 22414.40) DC
14.	164.45151	(99060505)	AT (	22293.00, 22414.40) DC	39.	124.96826	(99051404)	AT (	22293.00, 22414.40) DC
15.	164.04555	(99051822)	AT (	22293.00, 22414.40) DC	40.	123.31798	(99060505)	AT (	22293.00, 22414.40) DC
16.	157.35387	(99012219)	AT (	22293.00, 22414.40) DC	41.	121.29266	(99030705)	AT (	22293.00, 22414.40) DC
17.	155.34360	(99012219)	AT (	22293.00, 22414.40) DC	42.	120.78429	(99121403)	AT (	22293.00, 22414.40) DC
18.	153.39403	(99021021)	AT (	22293.00, 22414.40) DC	43.	120.38074	(99022504)	AT (	22293.00, 22414.40) DC
19.	148.35649	(99022624)	AT (	22293.00, 22414.40) DC	44.	120.05182	(99012801)	AT (	22293.00, 22414.40) DC
20.	147.18076	(99021101)	AT (	22293.00, 22414.40) DC	45.	119.80504	(99010508)	AT (	22293.00, 22414.40) DC
21.	145.30032	(99021101)	AT (	22293.00, 22414.40) DC	46.	118.94370	(99012801)	AT (	22293.00, 22414.40) DC
22.	144.08408	(99091006)	AT (	22293.00, 22414.40) DC	47.	118.84235	(99022504)	AT (	22293.00, 22414.40) DC
23.	143.69519	(99022624)	AT (	22293.00, 22414.40) DC	48.	117.77168	(99021702)	AT (	22293.00, 22414.40) DC
24.	142.15511	(99090607)	AT (	22293.00, 22414.40) DC	49.	117.66543	(99072401)	AT (	22480.30, 22330.30) DC
25.	138.57439	(99040107)	AT (	22293.00, 22414.40) DC	50.	117.66541	(99090905)	AT (	22480.30, 22330.30) DC

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:19

**MODELOPTs: PAGE 11
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

GROUP ID AVERAGE CONC NETWORK RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

 ALL 1ST HIGHEST VALUE IS 3.18528 AT (22480.30, 22330.30, 46.00, 10.00) DC NA
 2ND HIGHEST VALUE IS 3.13649 AT (22480.30, 22330.30, 46.00, 1.50) DC NA
 3RD HIGHEST VALUE IS 1.70222 AT (22480.30, 22330.30, 46.00, 20.00) DC NA
 4TH HIGHEST VALUE IS 1.28860 AT (22293.00, 22414.40, 5.40, 30.00) DC NA
 5TH HIGHEST VALUE IS 1.20724 AT (22293.00, 22414.40, 5.40, 20.00) DC NA
 6TH HIGHEST VALUE IS 0.96535 AT (22293.00, 22414.40, 5.40, 10.00) DC NA
 7TH HIGHEST VALUE IS 0.74076 AT (22293.00, 22414.40, 5.40, 1.50) DC NA
 8TH HIGHEST VALUE IS 0.66147 AT (22293.00, 22414.40, 5.40, 40.00) DC NA
 9TH HIGHEST VALUE IS 0.36252 AT (22480.30, 22330.30, 46.00, 30.00) DC NA
 10TH HIGHEST VALUE IS 0.05575 AT (22480.30, 22330.30, 46.00, 40.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:19

**MODELOPTs: PAGE 12
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

GROUP ID DATE AVERAGE CONC (YYMMDDHH) NETWORK RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

 ALL HIGH 1ST HIGH VALUE IS 377.82004 ON 99091006: AT (22293.00, 22414.40, 5.40, 30.00) DC NA
 HIGH 2ND HIGH VALUE IS 370.20609 ON 99012219: AT (22293.00, 22414.40, 5.40, 30.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:19

**MODELOPTs: PAGE 13
 CONC RURAL ELEV FLGPOL GRDRIS

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 10 Warning Message(s)
 A Total of 817 Informational Message(s)
 A Total of 817 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****
 MX W420 797 METQA :Wind Speed Out-of-Range. KURDAT= 99020305
 MX W420 1658 METQA :Wind Speed Out-of-Range. KURDAT= 99031102
 MX W420 1659 METQA :Wind Speed Out-of-Range. KURDAT= 99031103
 MX W420 6200 METQA :Wind Speed Out-of-Range. KURDAT= 99091608
 MX W420 6207 METQA :Wind Speed Out-of-Range. KURDAT= 99091615

MX W420 6208 METQA :Wind Speed Out-of-Range. KURDAT= 99091616
 MX W420 6209 METQA :Wind Speed Out-of-Range. KURDAT= 99091617
 MX W420 6221 METQA :Wind Speed Out-of-Range. KURDAT= 99091705
 MX W420 6222 METQA :Wind Speed Out-of-Range. KURDAT= 99091706
 MX W420 6223 METQA :Wind Speed Out-of-Range. KURDAT= 99091707

 *** IS CST3 Finishes Successfully ***

Hexachlorobenzene

**
 ** PROJECT Cheoy Lee Shipyard Excavation
 **
 CO STARTING
 CO TITLEONE Cheoy Lee Shipyard Excavation
 CO TITLLETO Toxic(organic matter) Assessment (Hourly)
 CO MODELOPT GRDRIS CONC RURAL
 CO AVERTIME 1 ANNUAL
 CO TERRHGTS ELEV
 CO POLLUTID OTHER
 CO RUNORNOT RUN
 CO ERRORFIL ERRORS.LST
 CO FLAGPOLE 0.0
 CO FINISHED

SO STARTING
 SO ELEVUNIT METERS
 **** ID Src typ Xs Ys Zs

 SO LOCATION S2 POINT 22473.1 22540.5 5.7
 **** ID Emiss Stkht Stktmp Stkvel Stkdia

 SO SRCPARAM S2 0.005556 8.0 373.0 8.0 0.4
 SO EMISGROUP 1.0E6 gram/sec microgram/m3
 SO SRCGROUP ALL
 SO FINISHED

RE STARTING
 RE ELEVUNIT METERS
 ** ASR
 ** Xcoord Ycoord Zelev Zflag
 **
 RE DISCCART 22480.3 22330.3 46.0 1.5
 RE DISCCART 22480.3 22330.3 46.0 10.0
 RE DISCCART 22480.3 22330.3 46.0 20.0
 RE DISCCART 22480.3 22330.3 46.0 30.0
 RE DISCCART 22480.3 22330.3 46.0 40.0
 RE DISCCART 22293.0 22414.4 5.4 1.5
 RE DISCCART 22293.0 22414.4 5.4 10.0
 RE DISCCART 22293.0 22414.4 5.4 20.0
 RE DISCCART 22293.0 22414.4 5.4 30.0
 RE DISCCART 22293.0 22414.4 5.4 40.0
 RE DISCCART 22656.1 24750.4 9.0 1.5
 RE DISCCART 22656.1 24750.4 9.0 10.0
 RE DISCCART 22656.1 24750.4 9.0 20.0
 RE DISCCART 22656.1 24750.4 9.0 30.0
 RE DISCCART 22656.1 24750.4 9.0 40.0
 RE DISCCART 23791.9 23263.2 2.6 1.5
 RE DISCCART 23791.9 23263.2 2.6 10.0
 RE DISCCART 23791.9 23263.2 2.6 20.0
 RE DISCCART 23791.9 23263.2 2.6 30.0
 RE DISCCART 23791.9 23263.2 2.6 40.0
 RE FINISHED

ME STARTING
 ME INPUTFIL CCH99.met (4i2,2(1x,f8.4),1x,f5.1,1x,i1,2(1x,f6.1))
 ME ANEMHGHT 98.5 METERS
 ME SURFDATA 99999 1999
 ME UAIRDATA 99999 1999
 ME FINISHED

OU STARTING
 OU RECTABLE ALLAVE FIRST SECOND
 OU MAXTABLE ALLAVE 50
 OU PLOTFILE I ALL first d_hex1.out
 OU PLOTFILE ANNUAL all d_hex_a.out
 OU FINISHED

 *** SETUP Finishes Successfully ***

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17
**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --

**Model Uses NO DRY DEPLETION. DDPLETE = F

**Model Uses NO WET DEPLETION. WDPLETE = F

**NO WET SCAVENGING Data Provided.

**NO GAS DRY DEPOSITION Data Provided.

**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:

1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates ANNUAL Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 20 Receptor(s)

**The Model Assumes A Pollutant Type of: OTHER

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 98.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAM/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MIRCOGRAM/M3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: d-hex.inp

**Output Print File: d-hex.lst

**Detailed Error/Message File: ERRORS.LST

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: PAGE 2
CONC RURAL ELEV FLGPOL GRDRIS

*** POINT SOURCE DATA ***

NUMBER	EMISSION	RATE	BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION	RATE				
SOURCE	PART.	(USER	UNITS)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT	VEL.	DIAMETER	EXISTS	SCALAR	VARY
ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)				BY		

S2 0 0.55560E-02 22473.1 22540.5 5.7 8.00 373.00 8.00 0.40 NO

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: PAGE 3
CONC RURAL ELEV FLGPOL GRDRIS

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID

SOURCE IDs

ALL S2

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02

*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: PAGE 4

CONC RURAL ELEV FLGPOL GRDRIS

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(22480.3, 22330.3, 46.0, 1.5); (22480.3, 22330.3, 46.0, 10.0);
(22480.3, 22330.3, 46.0, 20.0); (22480.3, 22330.3, 46.0, 30.0);
(22480.3, 22330.3, 46.0, 40.0); (22293.0, 22414.4, 5.4, 1.5);
(22293.0, 22414.4, 5.4, 10.0); (22293.0, 22414.4, 5.4, 20.0);
(22293.0, 22414.4, 5.4, 30.0); (22293.0, 22414.4, 5.4, 40.0);
(22656.1, 24750.4, 9.0, 1.5); (22656.1, 24750.4, 9.0, 10.0);
(22656.1, 24750.4, 9.0, 20.0); (22656.1, 24750.4, 9.0, 30.0);
(22656.1, 24750.4, 9.0, 40.0); (23791.9, 23263.2, 2.6, 1.5);
(23791.9, 23263.2, 2.6, 10.0); (23791.9, 23263.2, 2.6, 20.0);
(23791.9, 23263.2, 2.6, 30.0); (23791.9, 23263.2, 2.6, 40.0);

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02

*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: PAGE 5

CONC RURAL ELEV FLGPOL GRDRIS

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/16/02

*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: PAGE 6

CONC RURAL ELEV FLGPOL GRDRIS

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: CCH99.met
 FORMAT: (4I2,2(1X,F8.4),1X,F5.1,1X,11,2(1X,F6.1))
 SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999
 NAME: UNKNOWN NAME: UNKNOWN
 YEAR: 1999 YEAR: 1999

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-O IPCODE PRATE
 YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

99	01	01	01	281.0	7.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	02	278.0	8.90	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	03	274.0	7.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	04	233.0	7.40	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	05	253.0	7.20	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	06	252.0	7.60	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	07	255.0	6.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	08	283.0	5.70	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	09	267.0	4.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	10	251.0	4.30	291.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	11	294.0	3.70	293.1	2	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	12	306.0	5.60	294.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	13	313.0	9.00	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	14	299.0	6.40	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	15	312.0	7.90	294.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	16	314.0	7.60	293.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	17	311.0	6.10	291.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	18	297.0	4.60	290.1	5	1271.9	1252.1	0.0000	0.0	0.0000	0	0.00
99	01	01	19	304.0	3.80	289.1	5	1262.4	1155.0	0.0000	0.0	0.0000	0	0.00
99	01	01	20	277.0	3.00	289.1	5	1253.0	1057.9	0.0000	0.0	0.0000	0	0.00
99	01	01	21	280.0	3.50	289.1	5	1243.5	960.9	0.0000	0.0	0.0000	0	0.00
99	01	01	22	282.0	5.60	289.1	4	1234.1	1234.1	0.0000	0.0	0.0000	0	0.00
99	01	01	23	280.0	5.20	289.1	4	1224.6	1224.6	0.0000	0.0	0.0000	0	0.00
99	01	01	24	260.0	4.00	289.1	5	1215.1	669.7	0.0000	0.0	0.0000	0	0.00

*** FLOW: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.

NET VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation

*** 01/16/02

*** Toxic(organic matter) Assessment (Hourly)

*** 15:13:17

**MODELOPTs:

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CONC RURAL ELEV FLGPOL GRDRIS

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
22480.30	22330.30	0.09391	22480.30	22330.30	0.09538
22480.30	22330.30	0.05097	22480.30	22330.30	0.01085
22480.30	22330.30	0.00167	22293.00	22414.40	0.02218
22293.00	22414.40	0.02890	22293.00	22414.40	0.03615
22293.00	22414.40	0.03858	22293.00	22414.40	0.01981
22656.10	24750.40	0.00107	22656.10	24750.40	0.00105
22656.10	24750.40	0.00101	22656.10	24750.40	0.00094
22656.10	24750.40	0.00084	23791.90	23263.20	0.00129
23791.90	23263.20	0.00132	23791.90	23263.20	0.00138
23791.90	23263.20	0.00138	23791.90	23263.20	0.00125

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 8
CONC

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	3.19493	(99011902)	22480.30	22330.30	3.52319	(99072401)
22480.30	22330.30	2.07696	(99122107)	22480.30	22330.30	0.65015	(99122107)
22480.30	22330.30	0.35146	(99111813)	22293.00	22414.40	1.37449	(99060407)
22293.00	22414.40	2.13716	(99030701)	22293.00	22414.40	5.03040	(99091006)
22293.00	22414.40	11.31285	(99091006)	22293.00	22414.40	4.91192	(99051822)
22656.10	24750.40	0.36712	(99051820)	22656.10	24750.40	0.37271	(99051820)
22656.10	24750.40	0.37655	(99051820)	22656.10	24750.40	0.35278	(99051820)
22656.10	24750.40	0.29052	(99051820)	23791.90	23263.20	0.43817	(99060201)
23791.90	23263.20	0.54123	(99060201)	23791.90	23263.20	0.77010	(99060201)
23791.90	23263.20	0.92354	(99060201)	23791.90	23263.20	0.86173	(99022421)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 9
CONC

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	3.19319	(99012802)	22480.30	22330.30	3.52319	(99090905)
22480.30	22330.30	2.06089	(99011213)	22480.30	22330.30	0.63032	(99011216)
22480.30	22330.30	0.32372	(99092710)	22293.00	22414.40	1.33133	(99110904)
22293.00	22414.40	2.05877	(99060407)	22293.00	22414.40	4.65137	(99012219)
22293.00	22414.40	11.08488	(99012219)	22293.00	22414.40	4.71156	(99012219)
22656.10	24750.40	0.31641	(99070702)	22656.10	24750.40	0.31268	(99070702)
22656.10	24750.40	0.30074	(99070702)	22656.10	24750.40	0.27972	(99070702)
22656.10	24750.40	0.24939	(99070702)	23791.90	23263.20	0.42647	(99022421)
23791.90	23263.20	0.52933	(99022421)	23791.90	23263.20	0.75981	(99022421)
23791.90	23263.20	0.91948	(99022421)	23791.90	23263.20	0.85729	(99060201)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 10
CONC

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

** CONC OF OTHER IN MIRCOGRAM/M3 **

RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE
1.	11.31285 (99091006) AT (22293.00, 22414.40) DC		26.	4.06202 (99051404) AT (22293.00, 22414.40) DC	
2.	11.08488 (99012219) AT (22293.00, 22414.40) DC		27.	4.05873 (99101602) AT (22293.00, 22414.40) DC	
3.	10.42372 (99022624) AT (22293.00, 22414.40) DC		28.	4.03908 (99120923) AT (22293.00, 22414.40) DC	
4.	10.36893 (99021101) AT (22293.00, 22414.40) DC		29.	3.99359 (99021804) AT (22293.00, 22414.40) DC	
5.	8.52394 (99030705) AT (22293.00, 22414.40) DC		30.	3.96226 (99022223) AT (22293.00, 22414.40) DC	
6.	8.50339 (99012801) AT (22293.00, 22414.40) DC		31.	3.93194 (99040804) AT (22293.00, 22414.40) DC	
7.	8.48260 (99022504) AT (22293.00, 22414.40) DC		32.	3.88843 (99031323) AT (22293.00, 22414.40) DC	
8.	6.14395 (99070306) AT (22293.00, 22414.40) DC		33.	3.88828 (99012002) AT (22293.00, 22414.40) DC	
9.	6.11909 (99081906) AT (22293.00, 22414.40) DC		34.	3.88358 (99122607) AT (22293.00, 22414.40) DC	
10.	6.09093 (99030801) AT (22293.00, 22414.40) DC		35.	3.88273 (99040921) AT (22293.00, 22414.40) DC	
11.	5.33181 (99051822) AT (22293.00, 22414.40) DC		36.	3.86212 (99122601) AT (22293.00, 22414.40) DC	
12.	5.03498 (99040921) AT (22293.00, 22414.40) DC		37.	3.80934 (99020722) AT (22293.00, 22414.40) DC	
13.	5.03040 (99091006) AT (22293.00, 22414.40) DC		38.	3.79305 (99112504) AT (22293.00, 22414.40) DC	
14.	4.92408 (99060505) AT (22293.00, 22414.40) DC		39.	3.74186 (99051404) AT (22293.00, 22414.40) DC	
15.	4.91192 (99051822) AT (22293.00, 22414.40) DC		40.	3.69244 (99060505) AT (22293.00, 22414.40) DC	
16.	4.71156 (99012219) AT (22293.00, 22414.40) DC		41.	3.63180 (99030705) AT (22293.00, 22414.40) DC	
17.	4.65137 (99012219) AT (22293.00, 22414.40) DC		42.	3.61658 (99121403) AT (22293.00, 22414.40) DC	
18.	4.59299 (99021021) AT (22293.00, 22414.40) DC		43.	3.60449 (99022504) AT (22293.00, 22414.40) DC	
19.	4.44216 (99022624) AT (22293.00, 22414.40) DC		44.	3.59464 (99012801) AT (22293.00, 22414.40) DC	
20.	4.40695 (99021101) AT (22293.00, 22414.40) DC		45.	3.58726 (99010508) AT (22293.00, 22414.40) DC	
21.	4.35065 (99021101) AT (22293.00, 22414.40) DC		46.	3.56146 (99012801) AT (22293.00, 22414.40) DC	
22.	4.31423 (99091006) AT (22293.00, 22414.40) DC		47.	3.55843 (99022504) AT (22293.00, 22414.40) DC	
23.	4.30259 (99022624) AT (22293.00, 22414.40) DC		48.	3.52637 (99021702) AT (22293.00, 22414.40) DC	
24.	4.25647 (99090607) AT (22293.00, 22414.40) DC		49.	3.52319 (99072401) AT (22480.30, 22330.30) DC	
25.	4.14926 (99040107) AT (22293.00, 22414.40) DC		50.	3.52319 (99090905) AT (22480.30, 22330.30) DC	

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: PAGE 11
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

NETWORK
 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

 ALL 1ST HIGHEST VALUE IS 0.09538 AT (22480.30, 22330.30, 46.00, 10.00) DC NA
 2ND HIGHEST VALUE IS 0.09391 AT (22480.30, 22330.30, 46.00, 1.50) DC NA
 3RD HIGHEST VALUE IS 0.05097 AT (22480.30, 22330.30, 46.00, 20.00) DC NA
 4TH HIGHEST VALUE IS 0.03858 AT (22293.00, 22414.40, 5.40, 30.00) DC NA
 5TH HIGHEST VALUE IS 0.03615 AT (22293.00, 22414.40, 5.40, 20.00) DC NA
 6TH HIGHEST VALUE IS 0.02890 AT (22293.00, 22414.40, 5.40, 10.00) DC NA
 7TH HIGHEST VALUE IS 0.02218 AT (22293.00, 22414.40, 5.40, 1.50) DC NA
 8TH HIGHEST VALUE IS 0.01981 AT (22293.00, 22414.40, 5.40, 40.00) DC NA
 9TH HIGHEST VALUE IS 0.01085 AT (22480.30, 22330.30, 46.00, 30.00) DC NA
 10TH HIGHEST VALUE IS 0.00167 AT (22480.30, 22330.30, 46.00, 40.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: PAGE 12
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MIRCOGRAM/M3 **

DATE NETWORK
 GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

 ALL HIGH 1ST HIGH VALUE IS 11.31285 ON 99091006: AT (22293.00, 22414.40, 5.40, 30.00) DC NA
 HIGH 2ND HIGH VALUE IS 11.08488 ON 99012219: AT (22293.00, 22414.40, 5.40, 30.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** Toxic(organic matter) Assessment (Hourly) *** 15:13:17

**MODELOPTs: PAGE 13
 CONC RURAL ELEV FLGPOL GRDRIS

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 10 Warning Message(s)
 A Total of 817 Informational Message(s)
 A Total of 817 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****
 MX W420 797 METQA :Wind Speed Out-of-Range. KURDAT= 99020305
 MX W420 1658 METQA :Wind Speed Out-of-Range. KURDAT= 99031102
 MX W420 1659 METQA :Wind Speed Out-of-Range. KURDAT= 99031103
 MX W420 6200 METQA :Wind Speed Out-of-Range. KURDAT= 99091608
 MX W420 6207 METQA :Wind Speed Out-of-Range. KURDAT= 99091615

MX W420 6208 METQA :Wind Speed Out-of-Range. KURDAT= 99091616
 MX W420 6209 METQA :Wind Speed Out-of-Range. KURDAT= 99091617
 MX W420 6221 METQA :Wind Speed Out-of-Range. KURDAT= 99091705
 MX W420 6222 METQA :Wind Speed Out-of-Range. KURDAT= 99091706
 MX W420 6223 METQA :Wind Speed Out-of-Range. KURDAT= 99091707

 *** IS CST3 Finishes Successfully ***

SO₂

**
 ** PROJECT Cheoy Lee Shipyard Excavation
 **

CO STARTING
 CO TITLEONE Cheoy Lee Shipyard Excavation
 CO TITLETWO SO2 Assessment (Hourly)
 CO MODELOPT GRDRIS CONC RURAL
 CO AVERTIME 1 24 ANNUAL
 CO TERRHGT5 ELEV
 CO POLLUTID SO2
 CO RUNNORNOT RUN
 CO ERRORFIL ERRORS.LST
 CO FLAGPOLE 0.0
 CO FINISHED

SO STARTING
 SO ELEVUNIT METERS
 **** ID Srctyp Xs Ys Zs

 SO LOCATION S2 POINT 22473.1 22540.5 5.7
 **** ID Emiss Stkght Stktmp Stkvel Stkdia

 SO SRCPARAM S2 0.0037 8.0 373.0 8.0 0.4
 SO EMISUNIT 1.0E6 gram/sec microgram/m3
 SO SRCGROUP ALL
 SO FINISHED

RE STARTING
 RE ELEVUNIT METERS
 ** ASR

**	Xcoord	Ycoord	Zelev	Zflag
**				
RE DISCCART	22480.3	22330.3	46.0	1.5
RE DISCCART	22480.3	22330.3	46.0	10.0
RE DISCCART	22480.3	22330.3	46.0	20.0
RE DISCCART	22480.3	22330.3	46.0	30.0
RE DISCCART	22480.3	22330.3	46.0	40.0
RE DISCCART	22293.0	22414.4	5.4	1.5
RE DISCCART	22293.0	22414.4	5.4	10.0
RE DISCCART	22293.0	22414.4	5.4	20.0
RE DISCCART	22293.0	22414.4	5.4	30.0
RE DISCCART	22293.0	22414.4	5.4	40.0
RE DISCCART	22656.1	24750.4	9.0	1.5
RE DISCCART	22656.1	24750.4	9.0	10.0
RE DISCCART	22656.1	24750.4	9.0	20.0
RE DISCCART	22656.1	24750.4	9.0	30.0
RE DISCCART	22656.1	24750.4	9.0	40.0
RE DISCCART	23791.9	23263.2	2.6	1.5
RE DISCCART	23791.9	23263.2	2.6	10.0
RE DISCCART	23791.9	23263.2	2.6	20.0
RE DISCCART	23791.9	23263.2	2.6	30.0
RE DISCCART	23791.9	23263.2	2.6	40.0
RE FINISHED				

ME STARTING
 ME INPUTFIL CCH99.met (4i2,2(1x,f8.4),1x,f5.1,1x,i1,2(1x,f6.1))
 ME ANEMHGHT 98.5 METERS
 ME SURFDATA 99999 1999
 ME UAIRDATA 99999 1999
 ME FINISHED

OU STARTING
 OU RECTABLE ALLAVE FIRST SECOND
 OU MAXTABLE ALLAVE 50
 OU PLOTFILE 1 ALL first d_so2_1.out
 OU PLOTFILE 24 ALL first d_so2_24.out
 OU PLOTFILE ANNUAL ALL d_so2_a.out
 OU FINISHED

 *** SETUP Finishes Successfully ***

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44
 **MODELOPTs: PAGE 1
 CONC RURAL ELEV FLGPOL GRDRIS

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

- SCAVENGING/DEPOSITION LOGIC -

**Model Uses NO DRY DEPLETION. DDPLETE = F

**Model Uses NO WET DEPLETION. WDPLETE = F

**NO WET SCAVENGING Data Provided.

**NO GAS DRY DEPOSITION Data Provided.

**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:

1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 24-HR
 and Calculates ANNUAL Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 20 Receptor(s)

**The Model Assumes A Pollutant Type of: SO2

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:

- Model Outputs Tables of ANNUAL Averages by Receptor
- Model Outputs Tables of Highest Short Term Values (RECTABLE Keyword)
- Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
 m for Missing Hours
 b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 98.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAM/SEC ; Emission Rate Unit Factor = 0.10000E+07
 Output Units = MIRCOGRAM/M3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: d-so2.inp

**Output Print File: d-so2.lst

**Detailed Error/Message File: ERRORS.LST

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02

*** SO2 Assessment (Hourly) *** 10:18:44
 **MODELOPTs: PAGE 2

CONC RURAL ELEV FLGPOL GRDRIS

*** POINT SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION RATE			
SOURCE ID	PART. (USER UNITS)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT VEL.	DIAMETER	EXISTS	SCALAR	VARY
ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)	BY		

S2 0 0.37000E-02 22473.1 22540.5 5.7 8.00 373.00 8.00 0.40 NO
 *** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02

*** SO2 Assessment (Hourly) *** 10:18:44
 **MODELOPTs: PAGE 3

CONC RURAL ELEV FLGPOL GRDRIS

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

ALL S2 ,
*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation
*** SO2 Assessment (Hourly) *** 10:18:44 01/29/02

**MODELOPTs: PAGE 4
CONC RURAL ELEV FLGPOL GRDRIS

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(22480.3, 22330.3, 46.0, 1.5); (22480.3, 22330.3, 46.0, 10.0);
(22480.3, 22330.3, 46.0, 20.0); (22480.3, 22330.3, 46.0, 30.0);
(22480.3, 22330.3, 46.0, 40.0); (22293.0, 22414.4, 5.4, 1.5);
(22293.0, 22414.4, 5.4, 10.0); (22293.0, 22414.4, 5.4, 20.0);
(22293.0, 22414.4, 5.4, 30.0); (22293.0, 22414.4, 5.4, 40.0);
(22656.1, 24750.4, 9.0, 1.5); (22656.1, 24750.4, 9.0, 10.0);
(22656.1, 24750.4, 9.0, 20.0); (22656.1, 24750.4, 9.0, 30.0);
(22656.1, 24750.4, 9.0, 40.0); (23791.9, 23263.2, 2.6, 1.5);
(23791.9, 23263.2, 2.6, 10.0); (23791.9, 23263.2, 2.6, 20.0);
(23791.9, 23263.2, 2.6, 30.0); (23791.9, 23263.2, 2.6, 40.0);

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation
*** SO2 Assessment (Hourly) *** 10:18:44 01/29/02
**MODELOPTs: PAGE 5
CONC RURAL ELEV FLGPOL GRDRIS

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1111111111 1111111111 1111111111 1111111111 1111111111
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

Table with 7 columns: STABILITY CATEGORY, WIND SPEED CATEGORY (1-6). Rows A-F show values for each stability category across wind speed categories.

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

Table with 7 columns: STABILITY CATEGORY, WIND SPEED CATEGORY (1-6). Rows A-F show values for each stability category across wind speed categories.

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation
*** SO2 Assessment (Hourly) *** 10:18:44 01/29/02
**MODELOPTs: PAGE 6
CONC RURAL ELEV FLGPOL GRDRIS

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: CCH99.met
 FORMAT: (4I2,2(1X,F8.4),1X,F5.1,1X,I1,2(1X,F6.1))
 SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999
 NAME: UNKNOWN NAME: UNKNOWN
 YEAR: 1999 YEAR: 1999

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-0 IPCODE PRATE
 YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

YR	MN	DY	HR	VECTOR (M/S)	(K)	CLASS	RURAL	URBAN	(M/S)	(M)	(M)	(mm/HR)		
99	01	01	01	281.0	7.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	02	278.0	8.90	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	03	274.0	7.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	04	233.0	7.40	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	05	253.0	7.20	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	06	252.0	7.60	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	07	255.0	6.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	08	283.0	5.70	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	09	267.0	4.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	10	251.0	4.30	291.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	11	294.0	3.70	293.1	2	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	12	306.0	5.60	294.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	13	313.0	9.00	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	14	299.0	6.40	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	15	312.0	7.90	294.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	16	314.0	7.60	293.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	17	311.0	6.10	291.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	18	297.0	4.60	290.1	5	1271.9	1252.1	0.0000	0.0	0.0000	0	0.00
99	01	01	19	304.0	3.80	289.1	5	1262.4	1155.0	0.0000	0.0	0.0000	0	0.00
99	01	01	20	277.0	3.00	289.1	5	1253.0	1057.9	0.0000	0.0	0.0000	0	0.00
99	01	01	21	280.0	3.50	289.1	5	1243.5	960.9	0.0000	0.0	0.0000	0	0.00
99	01	01	22	282.0	5.60	289.1	4	1234.1	1234.1	0.0000	0.0	0.0000	0	0.00
99	01	01	23	280.0	5.20	289.1	4	1224.6	1224.6	0.0000	0.0	0.0000	0	0.00
99	01	01	24	260.0	4.00	289.1	5	1215.1	669.7	0.0000	0.0	0.0000	0	0.00

*** FLOW: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
 FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
 *** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44
 **MODELOPTs: PAGE 7
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF SO2 IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
22480.30	22330.30	0.06254	22480.30	22330.30	0.06351
22480.30	22330.30	0.03394	22480.30	22330.30	0.00723
22480.30	22330.30	0.00111	22293.00	22414.40	0.01477
22293.00	22414.40	0.01925	22293.00	22414.40	0.02407
22293.00	22414.40	0.02569	22293.00	22414.40	0.01319
22656.10	24750.40	0.00071	22656.10	24750.40	0.00070
22656.10	24750.40	0.00067	22656.10	24750.40	0.00063
22656.10	24750.40	0.00056	23791.90	23263.20	0.00086
23791.90	23263.20	0.00088	23791.90	23263.20	0.00092
23791.90	23263.20	0.00092	23791.90	23263.20	0.00083

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44
 **MODELOPTs: PAGE 8
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF SO2 IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
22480.30	22330.30	2.12765 (99011902)	22480.30	22330.30	2.34626 (99072401)
22480.30	22330.30	1.38314 (99122107)	22480.30	22330.30	0.43297 (99122107)
22480.30	22330.30	0.23406 (99111813)	22293.00	22414.40	0.91534 (99060407)
22293.00	22414.40	1.42323 (99030701)	22293.00	22414.40	3.34998 (99091006)
22293.00	22414.40	7.53376 (99091006)	22293.00	22414.40	3.27108 (99051822)
22656.10	24750.40	0.24448 (99051820)	22656.10	24750.40	0.24820 (99051820)
22656.10	24750.40	0.25076 (99051820)	22656.10	24750.40	0.23493 (99051820)
22656.10	24750.40	0.19347 (99051820)	23791.90	23263.20	0.29180 (99060201)

23791.90 23263.20 0.36043 (99060201) 23791.90 23263.20 0.51285 (99060201)
 23791.90 23263.20 0.61503 (99060201) 23791.90 23263.20 0.57387 (99022421)
 *** ISCST3 - VERSION 00101 *** ** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: PAGE 9

CONC RURAL ELEV FLGPOL GRDRIS

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF SO2 IN MIRCOGRAM/M3				**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	2.12650	(99012802)	22480.30	22330.30	2.34626	(99090905)
22480.30	22330.30	1.37244	(99011216)	22480.30	22330.30	0.41976	(99011216)
22480.30	22330.30	0.21558	(99092710)	22293.00	22414.40	0.88660	(99110904)
22293.00	22414.40	1.37103	(99060407)	22293.00	22414.40	3.09756	(99012219)
22293.00	22414.40	7.38194	(99012219)	22293.00	22414.40	3.13765	(99012219)
22656.10	24750.40	0.21071	(99070702)	22656.10	24750.40	0.20823	(99070702)
22656.10	24750.40	0.20028	(99070702)	22656.10	24750.40	0.18628	(99070702)
22656.10	24750.40	0.16608	(99070702)	23791.90	23263.20	0.28401	(99022421)
23791.90	23263.20	0.35251	(99022421)	23791.90	23263.20	0.50599	(99022421)
23791.90	23263.20	0.61233	(99022421)	23791.90	23263.20	0.57091	(99060201)

*** ISCST3 - VERSION 00101 *** ** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: PAGE 10

CONC RURAL ELEV FLGPOL GRDRIS

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF SO2 IN MIRCOGRAM/M3				**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	1.13803c	(99122024)	22480.30	22330.30	1.26027c	(99122024)
22480.30	22330.30	0.88556c	(99122024)	22480.30	22330.30	0.24774c	(99122024)
22480.30	22330.30	0.02589c	(99122024)	22293.00	22414.40	0.11661	(99042924)
22293.00	22414.40	0.15509	(99012224)	22293.00	22414.40	0.25667	(99012224)
22293.00	22414.40	0.36461	(99022624)	22293.00	22414.40	0.18192	(99051424)
22656.10	24750.40	0.01377c	(99051824)	22656.10	24750.40	0.01389c	(99051824)
22656.10	24750.40	0.01387c	(99051824)	22656.10	24750.40	0.01295c	(99051824)
22656.10	24750.40	0.01083c	(99051824)	23791.90	23263.20	0.01703	(99022424)
23791.90	23263.20	0.02002c	(99060224)	23791.90	23263.20	0.02849c	(99060224)
23791.90	23263.20	0.03417c	(99060224)	23791.90	23263.20	0.03172c	(99060224)

*** ISCST3 - VERSION 00101 *** ** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: PAGE 11

CONC RURAL ELEV FLGPOL GRDRIS

*** THE 2ND HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF SO2 IN MIRCOGRAM/M3				**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	0.76990	(99121924)	22480.30	22330.30	0.85946	(99121924)
22480.30	22330.30	0.61473	(99121924)	22480.30	22330.30	0.17636	(99121924)
22480.30	22330.30	0.01906	(99121924)	22293.00	22414.40	0.10998	(99120224)
22293.00	22414.40	0.13566	(99110924)	22293.00	22414.40	0.17159	(99022624)
22293.00	22414.40	0.35207	(99012224)	22293.00	22414.40	0.17586	(99022624)
22656.10	24750.40	0.01256	(99031824)	22656.10	24750.40	0.01240	(99031824)
22656.10	24750.40	0.01191	(99031824)	22656.10	24750.40	0.01107	(99031824)
22656.10	24750.40	0.00989	(99031824)	23791.90	23263.20	0.01621c	(99060224)
23791.90	23263.20	0.01994	(99022424)	23791.90	23263.20	0.02643	(99022424)
23791.90	23263.20	0.03078	(99022424)	23791.90	23263.20	0.02878	(99022424)

*** ISCST3 - VERSION 00101 *** ** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: PAGE 12

CONC RURAL ELEV FLGPOL GRDRIS

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

** CONC OF SO2 IN MIRCOGRAM/M3 **

RANK	CONC (YYMMDDHH)	AT RECEPTOR (XR,YR) OF TYPE	RANK	CONC (YYMMDDHH)	AT RECEPTOR (XR,YR) OF TYPE
1.	7.53376 (99091006)	AT (22293.00, 22414.40) DC	26.	2.70509 (99051404)	AT (22293.00, 22414.40) DC

2.	7.38194 (99012219) AT (22293.00, 22414.40) DC	27.	2.70290 (99101602) AT (22293.00, 22414.40) DC
3.	6.94164 (99022624) AT (22293.00, 22414.40) DC	28.	2.68981 (99120923) AT (22293.00, 22414.40) DC
4.	6.90516 (99021101) AT (22293.00, 22414.40) DC	29.	2.65952 (99021804) AT (22293.00, 22414.40) DC
5.	5.67649 (99030705) AT (22293.00, 22414.40) DC	30.	2.63865 (99022223) AT (22293.00, 22414.40) DC
6.	5.66281 (99012801) AT (22293.00, 22414.40) DC	31.	2.61846 (99040804) AT (22293.00, 22414.40) DC
7.	5.64896 (99022504) AT (22293.00, 22414.40) DC	32.	2.58949 (99031323) AT (22293.00, 22414.40) DC
8.	4.09154 (99070306) AT (22293.00, 22414.40) DC	33.	2.58939 (99012002) AT (22293.00, 22414.40) DC
9.	4.07499 (99081906) AT (22293.00, 22414.40) DC	34.	2.58625 (99122607) AT (22293.00, 22414.40) DC
10.	4.05623 (99030801) AT (22293.00, 22414.40) DC	35.	2.58569 (99040921) AT (22293.00, 22414.40) DC
11.	3.55070 (99051822) AT (22293.00, 22414.40) DC	36.	2.57197 (99122601) AT (22293.00, 22414.40) DC
12.	3.35303 (99040921) AT (22293.00, 22414.40) DC	37.	2.53682 (99020722) AT (22293.00, 22414.40) DC
13.	3.34998 (99091006) AT (22293.00, 22414.40) DC	38.	2.52597 (99112504) AT (22293.00, 22414.40) DC
14.	3.27917 (99060505) AT (22293.00, 22414.40) DC	39.	2.49188 (99051404) AT (22293.00, 22414.40) DC
15.	3.27108 (99051822) AT (22293.00, 22414.40) DC	40.	2.45897 (99060505) AT (22293.00, 22414.40) DC
16.	3.13765 (99012219) AT (22293.00, 22414.40) DC	41.	2.41858 (99030705) AT (22293.00, 22414.40) DC
17.	3.09756 (99012219) AT (22293.00, 22414.40) DC	42.	2.40845 (99121403) AT (22293.00, 22414.40) DC
18.	3.05869 (99021021) AT (22293.00, 22414.40) DC	43.	2.40040 (99022504) AT (22293.00, 22414.40) DC
19.	2.95824 (99022624) AT (22293.00, 22414.40) DC	44.	2.39384 (99012801) AT (22293.00, 22414.40) DC
20.	2.93479 (99021101) AT (22293.00, 22414.40) DC	45.	2.38892 (99010508) AT (22293.00, 22414.40) DC
21.	2.89730 (99021101) AT (22293.00, 22414.40) DC	46.	2.37175 (99012801) AT (22293.00, 22414.40) DC
22.	2.87305 (99091006) AT (22293.00, 22414.40) DC	47.	2.36972 (99022504) AT (22293.00, 22414.40) DC
23.	2.86529 (99022624) AT (22293.00, 22414.40) DC	48.	2.34838 (99021702) AT (22293.00, 22414.40) DC
24.	2.83458 (99090607) AT (22293.00, 22414.40) DC	49.	2.34626 (99072401) AT (22480.30, 22330.30) DC
25.	2.76318 (99040107) AT (22293.00, 22414.40) DC	50.	2.34626 (99090905) AT (22480.30, 22330.30) DC

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
*** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 13

*** THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

** CONC OF SO2 IN MIRCOGRAM/M3 **

RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE
1.	1.26027c(99122024) AT (22480.30, 22330.30) DC		26.	0.28736 (99010224) AT (22480.30, 22330.30) DC	
2.	1.13803c(99122024) AT (22480.30, 22330.30) DC		27.	0.28656 (99011424) AT (22480.30, 22330.30) DC	
3.	0.88556c(99122024) AT (22480.30, 22330.30) DC		28.	0.28462 (99011424) AT (22480.30, 22330.30) DC	
4.	0.85946 (99121924) AT (22480.30, 22330.30) DC		29.	0.28388 (99121824) AT (22480.30, 22330.30) DC	
5.	0.76990 (99121924) AT (22480.30, 22330.30) DC		30.	0.28302 (99050524) AT (22480.30, 22330.30) DC	
6.	0.69084 (99011224) AT (22480.30, 22330.30) DC		31.	0.28223 (99050524) AT (22480.30, 22330.30) DC	
7.	0.63425 (99011224) AT (22480.30, 22330.30) DC		32.	0.27334 (99022524) AT (22293.00, 22414.40) DC	
8.	0.61473 (99121924) AT (22480.30, 22330.30) DC		33.	0.27299 (99021124) AT (22480.30, 22330.30) DC	
9.	0.45825 (99011224) AT (22480.30, 22330.30) DC		34.	0.26775 (99040524) AT (22480.30, 22330.30) DC	
10.	0.38967 (99022124) AT (22480.30, 22330.30) DC		35.	0.26576 (99121824) AT (22480.30, 22330.30) DC	
11.	0.38691 (99022124) AT (22480.30, 22330.30) DC		36.	0.26519 (99040524) AT (22480.30, 22330.30) DC	
12.	0.36461 (99022624) AT (22293.00, 22414.40) DC		37.	0.26397 (99050924) AT (22480.30, 22330.30) DC	
13.	0.35207 (99012224) AT (22293.00, 22414.40) DC		38.	0.26281 (99021124) AT (22480.30, 22330.30) DC	
14.	0.33656 (99123024) AT (22480.30, 22330.30) DC		39.	0.26245 (99050924) AT (22480.30, 22330.30) DC	
15.	0.32346 (99120524) AT (22480.30, 22330.30) DC		40.	0.26164 (99021824) AT (22480.30, 22330.30) DC	
16.	0.32221 (99123024) AT (22480.30, 22330.30) DC		41.	0.25896 (99030724) AT (22293.00, 22414.40) DC	
17.	0.31989 (99122124) AT (22480.30, 22330.30) DC		42.	0.25667 (99012224) AT (22293.00, 22414.40) DC	
18.	0.31433 (99122124) AT (22480.30, 22330.30) DC		43.	0.25576 (99011924) AT (22480.30, 22330.30) DC	
19.	0.31391 (99091024) AT (22293.00, 22414.40) DC		44.	0.25233 (99092124) AT (22480.30, 22330.30) DC	
20.	0.31301 (99120524) AT (22480.30, 22330.30) DC		45.	0.25009 (99051924) AT (22480.30, 22330.30) DC	
21.	0.29636c(99010324) AT (22480.30, 22330.30) DC		46.	0.24935 (99100624) AT (22480.30, 22330.30) DC	
22.	0.29063 (99021824) AT (22480.30, 22330.30) DC		47.	0.24878 (99100624) AT (22480.30, 22330.30) DC	
23.	0.28950c(99010324) AT (22480.30, 22330.30) DC		48.	0.24809 (99092124) AT (22480.30, 22330.30) DC	
24.	0.28772 (99021124) AT (22293.00, 22414.40) DC		49.	0.24774c(99122024) AT (22480.30, 22330.30) DC	
25.	0.28740 (99010224) AT (22480.30, 22330.30) DC		50.	0.24725 (99120124) AT (22480.30, 22330.30) DC	

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
*** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 14

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2 IN MIRCOGRAM/M3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID
----------	--------------	---

ALL 1ST HIGHEST VALUE IS 0.06351 AT (22480.30, 22330.30, 46.00, 10.00) DC NA
 2ND HIGHEST VALUE IS 0.06254 AT (22480.30, 22330.30, 46.00, 1.50) DC NA
 3RD HIGHEST VALUE IS 0.03394 AT (22480.30, 22330.30, 46.00, 20.00) DC NA
 4TH HIGHEST VALUE IS 0.02569 AT (22293.00, 22414.40, 5.40, 30.00) DC NA
 5TH HIGHEST VALUE IS 0.02407 AT (22293.00, 22414.40, 5.40, 20.00) DC NA
 6TH HIGHEST VALUE IS 0.01925 AT (22293.00, 22414.40, 5.40, 10.00) DC NA
 7TH HIGHEST VALUE IS 0.01477 AT (22293.00, 22414.40, 5.40, 1.50) DC NA
 8TH HIGHEST VALUE IS 0.01319 AT (22293.00, 22414.40, 5.40, 40.00) DC NA
 9TH HIGHEST VALUE IS 0.00723 AT (22480.30, 22330.30, 46.00, 30.00) DC NA
 10TH HIGHEST VALUE IS 0.00111 AT (22480.30, 22330.30, 46.00, 40.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: PAGE 15
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF SO2 IN MIRCOGRAM/M3 **

GROUP ID	DATE	AVERAGE CONC (YYMMDDHH)	NETWORK	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	GRID-ID
----------	------	-------------------------	---------	---------------------------------	---------	---------

ALL HIGH 1ST HIGH VALUE IS	7.53376	ON 99091006:	AT (22293.00, 22414.40,	5.40, 30.00)	DC	NA
HIGH 2ND HIGH VALUE IS	7.38194	ON 99012219:	AT (22293.00, 22414.40,	5.40, 30.00)	DC	NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: PAGE 16
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO2 IN MIRCOGRAM/M3 **

GROUP ID	DATE	AVERAGE CONC (YYMMDDHH)	NETWORK	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	GRID-ID
----------	------	-------------------------	---------	---------------------------------	---------	---------

ALL HIGH 1ST HIGH VALUE IS	1.26027c	ON 99122024:	AT (22480.30, 22330.30,	46.00, 10.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.85946	ON 99121924:	AT (22480.30, 22330.30,	46.00, 10.00)	DC	NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** SO2 Assessment (Hourly) *** 10:18:44

**MODELOPTs: PAGE 17
 CONC RURAL ELEV FLGPOL GRDRIS

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 10 Warning Message(s)
 A Total of 817 Informational Message(s)
 A Total of 817 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****

MX W420 797 METQA :Wind Speed Out-of-Range. KURDAT= 99020305
 MX W420 1658 METQA :Wind Speed Out-of-Range. KURDAT= 99031102
 MX W420 1659 METQA :Wind Speed Out-of-Range. KURDAT= 99031103
 MX W420 6200 METQA :Wind Speed Out-of-Range. KURDAT= 99091608
 MX W420 6207 METQA :Wind Speed Out-of-Range. KURDAT= 99091615
 MX W420 6208 METQA :Wind Speed Out-of-Range. KURDAT= 99091616
 MX W420 6209 METQA :Wind Speed Out-of-Range. KURDAT= 99091617
 MX W420 6221 METQA :Wind Speed Out-of-Range. KURDAT= 99091705
 MX W420 6222 METQA :Wind Speed Out-of-Range. KURDAT= 99091706
 MX W420 6223 METQA :Wind Speed Out-of-Range. KURDAT= 99091707

 *** IS CST3 Finishes Successfully *** *****

NO₂

**
 ** PROJECT Cheoy Lee Shipyard Excavation
 **

CO STARTING
 CO TITLEONE Cheoy Lee Shipyard Excavation
 CO TITLETWO NOX Assessment (Hourly)
 CO MODELOPT GRDRIS CONC RURAL
 CO AVERTIME 1 24 ANNUAL
 CO TERRHGTS ELEV
 CO POLLUTID NOX
 CO RUNORNOT RUN
 CO ERRORFIL ERRORS.LST
 CO FLAGPOLE 0.0
 CO FINISHED

SO STARTING
 SO ELEVUNIT METERS
 **** ID Srectyp Xs Ys Zs

 SO LOCATION S2 POINT 22473.1 22540.5 5.7
 **** ID Emiss Stkght Stktmp Stkvel Stkdia

 SO SRCPARAM S2 0.1235 8.0 373.0 8.0 0.4
 SO EMISUNIT 1.0E6 gram/sec microgram/m3
 SO SRCGROUP ALL
 SO FINISHED

RE STARTING
 RE ELEVUNIT METERS
 ** ASR
 ** Xcoord Ycoord Zelev Zflag
 **
 RE DISCCART 22480.3 22330.3 46.0 1.5
 RE DISCCART 22480.3 22330.3 46.0 10.0
 RE DISCCART 22480.3 22330.3 46.0 20.0
 RE DISCCART 22480.3 22330.3 46.0 30.0
 RE DISCCART 22480.3 22330.3 46.0 40.0
 RE DISCCART 22293.0 22414.4 5.4 1.5
 RE DISCCART 22293.0 22414.4 5.4 10.0
 RE DISCCART 22293.0 22414.4 5.4 20.0
 RE DISCCART 22293.0 22414.4 5.4 30.0
 RE DISCCART 22293.0 22414.4 5.4 40.0
 RE DISCCART 22656.1 24750.4 9.0 1.5
 RE DISCCART 22656.1 24750.4 9.0 10.0
 RE DISCCART 22656.1 24750.4 9.0 20.0
 RE DISCCART 22656.1 24750.4 9.0 30.0
 RE DISCCART 22656.1 24750.4 9.0 40.0
 RE DISCCART 23791.9 23263.2 2.6 1.5
 RE DISCCART 23791.9 23263.2 2.6 10.0
 RE DISCCART 23791.9 23263.2 2.6 20.0
 RE DISCCART 23791.9 23263.2 2.6 30.0
 RE DISCCART 23791.9 23263.2 2.6 40.0
 RE FINISHED

ME STARTING
 ME INPUTFIL CCH99.met (4i2,2(1x,f8.4),1x,f5.1,1x,i1,2(1x,f6.1))
 ME ANEMHGHT 98.5 METERS
 ME SURFDATA 99999 1999
 ME UAIRDATA 99999 1999
 ME FINISHED

OU STARTING
 OU RECTABLE ALLAVE FIRST SECOND
 OU MAXTABLE ALLAVE 50
 OU PLOTFILE 1 ALL first_d_nox_1.out
 OU PLOTFILE 24 ALL first_d_nox_24.out
 OU PLOTFILE ANNUAL ALL d_nox_a.out
 OU FINISHED

*** SETUP Finishes Successfully ***

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
*** NOX Assessment (Hourly) *** 10:18:42
**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONcentration Values.

-- SCAVENGING/DEPOSITION LOGIC --**Model Uses NO DRY DEPLETION. DDPLETE = F**Model Uses NO WET DEPLETION. WDPLETE = F**NO WET SCAVENGING Data Provided.

**NO GAS DRY DEPOSITION Data Provided.

**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:

1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 24-HR
and Calculates ANNUAL Averages

**This Includes: 1 Source(s); 1 Source Group(s); and 20 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:

- Model Outputs Tables of ANNUAL Averages by Receptor
- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 98.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAM/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MIRCOGRAM/M3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: d-nox.inp

**Output Print File: d-nox.lst

**Detailed Error/Message File: ERRORS.LST

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**MODELOPTs: PAGE 2
CONC RURAL ELEV FLGPOL GRDRIS

*** POINT SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION RATE
SOURCE	PART. (USER UNITS)	X	Y	ELEV. HEIGHT	TEMP. DEG.K	EXIT VEL. (M/SEC)	DIAMETER	EMITS SCALAR VARY
ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY

S2 0 0.12350E+00 22473.1 22540.5 5.7 8.00 373.00 8.00 0.40 NO
*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02

**MODELOPTs: PAGE 3
CONC RURAL ELEV FLGPOL GRDRIS

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

ALL S2 ,
 *** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/29/02
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 **MODELOPTs: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS

*** DISCRETE CARTESIAN RECEPTORS ***
 (X-COORD, Y-COORD, ZELEV, ZFLAG)
 (METERS)

```
( 22480.3, 22330.3, 46.0, 1.5); ( 22480.3, 22330.3, 46.0, 10.0);
( 22480.3, 22330.3, 46.0, 20.0); ( 22480.3, 22330.3, 46.0, 30.0);
( 22480.3, 22330.3, 46.0, 40.0); ( 22293.0, 22414.4, 5.4, 1.5);
( 22293.0, 22414.4, 5.4, 10.0); ( 22293.0, 22414.4, 5.4, 20.0);
( 22293.0, 22414.4, 5.4, 30.0); ( 22293.0, 22414.4, 5.4, 40.0);
( 22656.1, 24750.4, 9.0, 1.5); ( 22656.1, 24750.4, 9.0, 10.0);
( 22656.1, 24750.4, 9.0, 20.0); ( 22656.1, 24750.4, 9.0, 30.0);
( 22656.1, 24750.4, 9.0, 40.0); ( 23791.9, 23263.2, 2.6, 1.5);
( 23791.9, 23263.2, 2.6, 10.0); ( 23791.9, 23263.2, 2.6, 20.0);
( 23791.9, 23263.2, 2.6, 30.0); ( 23791.9, 23263.2, 2.6, 40.0);
```

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 **MODELOPTs: PAGE 5
 CONC RURAL ELEV FLGPOL GRDRIS

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
 (1=YES; 0=NO)

```
1111111111 1111111111 1111111111 1111111111 1111111111
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
 (METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY								
	1	2	3	4	5	6			
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01			
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01			
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00			
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
 (DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

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 CONC RURAL ELEV FLGPOL GRDRIS

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: CCH99.met
 FORMAT: (4I2,2(1X,F8.4),1X,F5.1,1X,I1,2(1X,F6.1))
 SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999
 NAME: UNKNOWN NAME: UNKNOWN
 YEAR: 1999 YEAR: 1999

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-0 IPCODE PRATE
 YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

99	01	01	01	281.0	7.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	02	278.0	8.90	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	03	274.0	7.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	04	233.0	7.40	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	05	253.0	7.20	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	06	252.0	7.60	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	07	255.0	6.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	08	283.0	5.70	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	09	267.0	4.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	10	251.0	4.30	291.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	11	294.0	3.70	293.1	2	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	12	306.0	5.60	294.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	13	313.0	9.00	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	14	299.0	6.40	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	15	312.0	7.90	294.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	16	314.0	7.60	293.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	17	311.0	6.10	291.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	18	297.0	4.60	290.1	5	1271.9	1252.1	0.0000	0.0	0.0000	0	0.00
99	01	01	19	304.0	3.80	289.1	5	1262.4	1155.0	0.0000	0.0	0.0000	0	0.00
99	01	01	20	277.0	3.00	289.1	5	1253.0	1057.9	0.0000	0.0	0.0000	0	0.00
99	01	01	21	280.0	3.50	289.1	5	1243.5	960.9	0.0000	0.0	0.0000	0	0.00
99	01	01	22	282.0	5.60	289.1	4	1234.1	1234.1	0.0000	0.0	0.0000	0	0.00
99	01	01	23	280.0	5.20	289.1	4	1224.6	1224.6	0.0000	0.0	0.0000	0	0.00
99	01	01	24	260.0	4.00	289.1	5	1215.1	669.7	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
 FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
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**MODELOPTS: RURAL ELEV FLGPOL GRDRIS
 CONC

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MIRCOCGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
22480.30	22330.30	2.08754	22480.30	22330.30	2.12002
22480.30	22330.30	1.13294	22480.30	22330.30	0.24128
22480.30	22330.30	0.03711	22293.00	22414.40	0.49303
22293.00	22414.40	0.64250	22293.00	22414.40	0.80350
22293.00	22414.40	0.85765	22293.00	22414.40	0.44026
22656.10	24750.40	0.02371	22656.10	24750.40	0.02342
22656.10	24750.40	0.02248	22656.10	24750.40	0.02086
23791.90	23263.20	0.02869			
23791.90	23263.20	0.02938	23791.90	23263.20	0.03067
23791.90	23263.20	0.03058	23791.90	23263.20	0.02773

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**MODELOPTS: RURAL ELEV FLGPOL GRDRIS
 CONC

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MIRCOCGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
22480.30	22330.30	71.01766 (99011902)	22480.30	22330.30	78.31426 (99072401)
22480.30	22330.30	46.16709 (99122107)	22480.30	22330.30	14.45173 (99122107)
22480.30	22330.30	7.81238 (99111813)	22293.00	22414.40	30.55245 (99060407)
22293.00	22414.40	47.50522 (99030701)	22293.00	22414.40	111.81676 (99091006)
22293.00	22414.40	251.46465 (99091006)	22293.00	22414.40	109.18335 (99051822)
22656.10	24750.40	8.16045 (99051820)	22656.10	24750.40	8.28467 (99051820)
22656.10	24750.40	8.37003 (99051820)	22656.10	24750.40	7.84173 (99051820)

22656.10 24750.40 6.45767 (99051820) 23791.90 23263.20 9.73974 (99060201)
 23791.90 23263.20 12.03066 (99060201) 23791.90 23263.20 17.11802 (99060201)
 23791.90 23263.20 20.52868 (99060201) 23791.90 23263.20 19.15473 (99022421)
 *** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** NOX Assessment (Hourly) *** 10:18:42

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 9
 CONC
 *** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF NOX IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	70.97898	(99012802)	22480.30	22330.30	78.31425	(99090905)
22480.30	22330.30	45.80993	(99011216)	22480.30	22330.30	14.01081	(99011216)
22480.30	22330.30	7.19573	(99092710)	22293.00	22414.40	29.59320	(99110904)
22293.00	22414.40	45.76274	(99060407)	22293.00	22414.40	103.39162	(99012219)
22293.00	22414.40	246.39705	(99012219)	22293.00	22414.40	104.72958	(99012219)
22656.10	24750.40	7.03312	(99070702)	22656.10	24750.40	6.95024	(99070702)
22656.10	24750.40	6.68490	(99070702)	22656.10	24750.40	6.21762	(99070702)
22656.10	24750.40	5.54339	(99070702)	23791.90	23263.20	9.47970	(99022421)
23791.90	23263.20	11.76608	(99022421)	23791.90	23263.20	16.88919	(99022421)
23791.90	23263.20	20.43851	(99022421)	23791.90	23263.20	19.05594	(99060201)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** NOX Assessment (Hourly) *** 10:18:42
 **MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 10
 CONC
 *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF NOX IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	37.98565c	(99122024)	22480.30	22330.30	42.06573c	(99122024)
22480.30	22330.30	29.55864c	(99122024)	22480.30	22330.30	8.26908c	(99122024)
22480.30	22330.30	0.86431c	(99122024)	22293.00	22414.40	3.89232	(99042924)
22293.00	22414.40	5.17658	(99012224)	22293.00	22414.40	8.56728	(99012224)
22293.00	22414.40	12.17008	(99022624)	22293.00	22414.40	6.07225	(99051424)
22656.10	24750.40	0.45968c	(99051824)	22656.10	24750.40	0.46366c	(99051824)
22656.10	24750.40	0.46289c	(99051824)	22656.10	24750.40	0.43226c	(99051824)
22656.10	24750.40	0.36138c	(99051824)	23791.90	23263.20	0.56844	(99022424)
23791.90	23263.20	0.66837c	(99060224)	23791.90	23263.20	0.95100c	(99060224)
23791.90	23263.20	1.14048c	(99060224)	23791.90	23263.20	1.05866c	(99060224)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
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 **MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 11
 CONC
 *** THE 2ND HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***
 ** CONC OF NOX IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
22480.30	22330.30	25.69785	(99121924)	22480.30	22330.30	28.68737	(99121924)
22480.30	22330.30	20.51858	(99121924)	22480.30	22330.30	5.88669	(99121924)
22480.30	22330.30	0.63604	(99121924)	22293.00	22414.40	3.67098	(99120224)
22293.00	22414.40	4.52816	(99110924)	22293.00	22414.40	5.72729	(99022624)
22293.00	22414.40	11.75160	(99012224)	22293.00	22414.40	5.86987	(99022624)
22656.10	24750.40	0.41934	(99031824)	22656.10	24750.40	0.41406	(99031824)
22656.10	24750.40	0.39751	(99031824)	22656.10	24750.40	0.36935	(99031824)
22656.10	24750.40	0.33001	(99031824)	23791.90	23263.20	0.54110c	(99060224)
23791.90	23263.20	0.66561	(99022424)	23791.90	23263.20	0.88203	(99022424)
23791.90	23263.20	1.02732	(99022424)	23791.90	23263.20	0.96054	(99022424)

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** NOX Assessment (Hourly) *** 10:18:42
 **MODELOPTs: RURAL ELEV FLGPOL GRDRIS PAGE 12
 CONC
 *** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

** CONC OF NOX IN MIRCOGRAM/M3 **

RANK CONC (YYMMDDHH) AT RECEPTOR (XR,YR) OF TYPE RANK CONC (YYMMDDHH) AT RECEPTOR (XR,YR) OF TYPE

1.	251.46465 (99091006) AT (22293.00, 22414.40) DC	26.	90.29144 (99051404) AT (22293.00, 22414.40) DC
2.	246.39705 (99012219) AT (22293.00, 22414.40) DC	27.	90.21841 (99101602) AT (22293.00, 22414.40) DC
3.	231.70076 (99022624) AT (22293.00, 22414.40) DC	28.	89.78162 (99120923) AT (22293.00, 22414.40) DC
4.	230.48291 (99021101) AT (22293.00, 22414.40) DC	29.	88.77045 (99021804) AT (22293.00, 22414.40) DC
5.	189.47191 (99030705) AT (22293.00, 22414.40) DC	30.	88.07397 (99022223) AT (22293.00, 22414.40) DC
6.	189.01524 (99012801) AT (22293.00, 22414.40) DC	31.	87.40010 (99040804) AT (22293.00, 22414.40) DC
7.	188.55319 (99022504) AT (22293.00, 22414.40) DC	32.	86.43292 (99031323) AT (22293.00, 22414.40) DC
8.	136.56900 (99070306) AT (22293.00, 22414.40) DC	33.	86.42947 (99012002) AT (22293.00, 22414.40) DC
9.	136.01653 (99081906) AT (22293.00, 22414.40) DC	34.	86.32498 (99122607) AT (22293.00, 22414.40) DC
10.	135.39049 (99030801) AT (22293.00, 22414.40) DC	35.	86.30625 (99040921) AT (22293.00, 22414.40) DC
11.	111.51655 (99051822) AT (22293.00, 22414.40) DC	36.	85.84815 (99122601) AT (22293.00, 22414.40) DC
12.	111.91866 (99040921) AT (22293.00, 22414.40) DC	37.	84.67488 (99020722) AT (22293.00, 22414.40) DC
13.	111.81676 (99091006) AT (22293.00, 22414.40) DC	38.	84.31266 (99112504) AT (22293.00, 22414.40) DC
14.	109.45354 (99060505) AT (22293.00, 22414.40) DC	39.	83.17478 (99051404) AT (22293.00, 22414.40) DC
15.	109.18335 (99051822) AT (22293.00, 22414.40) DC	40.	82.07641 (99060505) AT (22293.00, 22414.40) DC
16.	104.72958 (99012219) AT (22293.00, 22414.40) DC	41.	80.72842 (99030705) AT (22293.00, 22414.40) DC
17.	103.39162 (99012219) AT (22293.00, 22414.40) DC	42.	80.39007 (99121403) AT (22293.00, 22414.40) DC
18.	102.09404 (99021021) AT (22293.00, 22414.40) DC	43.	80.12148 (99022504) AT (22293.00, 22414.40) DC
19.	98.74122 (99022624) AT (22293.00, 22414.40) DC	44.	79.90256 (99012801) AT (22293.00, 22414.40) DC
20.	97.95869 (99021101) AT (22293.00, 22414.40) DC	45.	79.73831 (99010508) AT (22293.00, 22414.40) DC
21.	96.70714 (99021101) AT (22293.00, 22414.40) DC	46.	79.16502 (99012801) AT (22293.00, 22414.40) DC
22.	95.89764 (99091006) AT (22293.00, 22414.40) DC	47.	79.09757 (99022504) AT (22293.00, 22414.40) DC
23.	95.63882 (99022624) AT (22293.00, 22414.40) DC	48.	78.38498 (99021702) AT (22293.00, 22414.40) DC
24.	94.61378 (99090607) AT (22293.00, 22414.40) DC	49.	78.31426 (99072401) AT (22480.30, 22330.30) DC
25.	92.23058 (99040107) AT (22293.00, 22414.40) DC	50.	78.31425 (99090905) AT (22480.30, 22330.30) DC

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/29/02

*** NOX Assessment (Hourly) *** 10:18:42

**MODELOPTS:

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CONC RURAL ELEV FLGPOL GRDRIS

*** THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): S2

** CONC OF NOX IN MIRCOGRAM/M3 **

RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE
1.	42.06573c(99122024) AT (22480.30, 22330.30) DC	26.	9.59156 (99010224) AT (22480.30, 22330.30) DC		
2.	37.98565c(99122024) AT (22480.30, 22330.30) DC	27.	9.56488 (99011424) AT (22480.30, 22330.30) DC		
3.	29.55864c(99122024) AT (22480.30, 22330.30) DC	28.	9.50014 (99011424) AT (22480.30, 22330.30) DC		
4.	28.68737 (99121924) AT (22480.30, 22330.30) DC	29.	9.47550 (99121824) AT (22480.30, 22330.30) DC		
5.	25.69785 (99121924) AT (22480.30, 22330.30) DC	30.	9.44678 (99050524) AT (22480.30, 22330.30) DC		
6.	23.05918 (99011224) AT (22480.30, 22330.30) DC	31.	9.42051 (99050524) AT (22480.30, 22330.30) DC		
7.	21.17015 (99011224) AT (22480.30, 22330.30) DC	32.	9.12356 (99022524) AT (22293.00, 22414.40) DC		
8.	20.51858 (99121924) AT (22480.30, 22330.30) DC	33.	9.11209 (99021124) AT (22480.30, 22330.30) DC		
9.	15.29570 (99011224) AT (22480.30, 22330.30) DC	34.	8.93707 (99040524) AT (22480.30, 22330.30) DC		
10.	13.00654 (99022124) AT (22480.30, 22330.30) DC	35.	8.87050 (99121824) AT (22480.30, 22330.30) DC		
11.	12.91445 (99022124) AT (22480.30, 22330.30) DC	36.	8.85154 (99040524) AT (22480.30, 22330.30) DC		
12.	12.17008 (99022624) AT (22293.00, 22414.40) DC	37.	8.81081 (99050924) AT (22480.30, 22330.30) DC		
13.	11.75160 (99012224) AT (22293.00, 22414.40) DC	38.	8.77208 (99021124) AT (22480.30, 22330.30) DC		
14.	11.23393 (99123024) AT (22480.30, 22330.30) DC	39.	8.76002 (99050924) AT (22480.30, 22330.30) DC		
15.	10.79662 (99120524) AT (22480.30, 22330.30) DC	40.	8.73310 (99021824) AT (22480.30, 22330.30) DC		
16.	10.75488 (99123024) AT (22480.30, 22330.30) DC	41.	8.64355 (99030724) AT (22293.00, 22414.40) DC		
17.	10.67739 (99122124) AT (22480.30, 22330.30) DC	42.	8.56728 (99012224) AT (22293.00, 22414.40) DC		
18.	10.49189 (99122124) AT (22480.30, 22330.30) DC	43.	8.53685 (99011924) AT (22480.30, 22330.30) DC		
19.	10.47769 (99091024) AT (22293.00, 22414.40) DC	44.	8.42250 (99092124) AT (22480.30, 22330.30) DC		
20.	10.44776 (99120524) AT (22480.30, 22330.30) DC	45.	8.34744 (99051924) AT (22480.30, 22330.30) DC		
21.	9.89190c(99010324) AT (22480.30, 22330.30) DC	46.	8.32276 (99100624) AT (22480.30, 22330.30) DC		
22.	9.70080 (99021824) AT (22480.30, 22330.30) DC	47.	8.30385 (99100624) AT (22480.30, 22330.30) DC		
23.	9.66296c(99010324) AT (22480.30, 22330.30) DC	48.	8.28098 (99092124) AT (22480.30, 22330.30) DC		
24.	9.60347 (99021124) AT (22293.00, 22414.40) DC	49.	8.26908c(99122024) AT (22480.30, 22330.30) DC		
25.	9.59305 (99010224) AT (22480.30, 22330.30) DC	50.	8.25297 (99120124) AT (22480.30, 22330.30) DC		

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** Cheoy Lee Shipyard Excavation *** 01/29/02

*** NOX Assessment (Hourly) *** 10:18:42

**MODELOPTS:

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CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF NOX IN MIRCOGRAM/M3 **

NETWORK

GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

 ALL 1ST HIGHEST VALUE IS 2.12002 AT (22480.30, 22330.30, 46.00, 10.00) DC NA
 2ND HIGHEST VALUE IS 2.08754 AT (22480.30, 22330.30, 46.00, 1.50) DC NA
 3RD HIGHEST VALUE IS 1.13294 AT (22480.30, 22330.30, 46.00, 20.00) DC NA
 4TH HIGHEST VALUE IS 0.85765 AT (22293.00, 22414.40, 5.40, 30.00) DC NA
 5TH HIGHEST VALUE IS 0.80350 AT (22293.00, 22414.40, 5.40, 20.00) DC NA
 6TH HIGHEST VALUE IS 0.64250 AT (22293.00, 22414.40, 5.40, 10.00) DC NA
 7TH HIGHEST VALUE IS 0.49303 AT (22293.00, 22414.40, 5.40, 1.50) DC NA
 8TH HIGHEST VALUE IS 0.44026 AT (22293.00, 22414.40, 5.40, 40.00) DC NA
 9TH HIGHEST VALUE IS 0.24128 AT (22480.30, 22330.30, 46.00, 30.00) DC NA
 10TH HIGHEST VALUE IS 0.03711 AT (22480.30, 22330.30, 46.00, 40.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** NOX Assessment (Hourly) *** 10:18:42

**MODELOPTs: PAGE 15
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX IN MIRCOGRAM/M3 **

GROUP ID DATE NETWORK
 AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 251.46465 ON 99091006: AT (22293.00, 22414.40, 5.40, 30.00) DC NA
 HIGH 2ND HIGH VALUE IS 246.39705 ON 99012219: AT (22293.00, 22414.40, 5.40, 30.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** NOX Assessment (Hourly) *** 10:18:42

**MODELOPTs: PAGE 16
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF NOX IN MIRCOGRAM/M3 **

GROUP ID DATE NETWORK
 AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

ALL HIGH 1ST HIGH VALUE IS 42.06573c ON 99122024: AT (22480.30, 22330.30, 46.00, 10.00) DC NA
 HIGH 2ND HIGH VALUE IS 28.68737 ON 99121924: AT (22480.30, 22330.30, 46.00, 10.00) DC NA

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/29/02
 *** NOX Assessment (Hourly) *** 10:18:42

**MODELOPTs: PAGE 17
 CONC RURAL ELEV FLGPOL GRDRIS

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 10 Warning Message(s)
 A Total of 817 Informational Message(s)
 A Total of 817 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
 *** NONE ***

```

***** WARNING MESSAGES *****
MX W420 797 METQA :Wind Speed Out-of-Range. KURDAT= 99020305
MX W420 1658 METQA :Wind Speed Out-of-Range. KURDAT= 99031102
MX W420 1659 METQA :Wind Speed Out-of-Range. KURDAT= 99031103
MX W420 6200 METQA :Wind Speed Out-of-Range. KURDAT= 99091608
MX W420 6207 METQA :Wind Speed Out-of-Range. KURDAT= 99091615
MX W420 6208 METQA :Wind Speed Out-of-Range. KURDAT= 99091616
MX W420 6209 METQA :Wind Speed Out-of-Range. KURDAT= 99091617
MX W420 6221 METQA :Wind Speed Out-of-Range. KURDAT= 99091705
MX W420 6222 METQA :Wind Speed Out-of-Range. KURDAT= 99091706
MX W420 6223 METQA :Wind Speed Out-of-Range. KURDAT= 99091707

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*****
*** ISCST3 Finishes Successfully ***
*****

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CO

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**
** PROJECT Cheoy Lee Shipyard Excavation
**
CO STARTING
CO TITLEONE Cheoy Lee Shipyard Excavation
CO TITLETWO CO Assessment (Hourly)
CO MODELOPT GRDRIS CONC RURAL
CO AVERTIME 1 ANNUAL
CO TERRHGTS ELEV
CO POLLUTID CO
CO RUNORNOT RUN
CO ERRORFIL ERRORS.LST
CO FLAGPOLE 0.0
CO FINISHED

```

```

SO STARTING
SO ELEVUNIT METERS
**** ID Srttyp Xs Ys Zs
**** -----
SO LOCATION S2 POINT 22473.1 22540.5 5.7
**** ID Emiss Stkght Stktmp Stkvel Stkdia
**** -----
SO SRCPARAM S2 0.5188 8.0 373.0 8.0 0.4
SO EMISUNIT 1.0E6 gram/sec microgram/m3
SO SRCGROUP ALL
SO FINISHED

```

```

RE STARTING
RE ELEVUNIT METERS
** ASR
** Xcoord Ycoord Zelev Zflag
** -----
RE DISCCART 22480.3 22330.3 46.0 1.5
RE DISCCART 22480.3 22330.3 46.0 10.0
RE DISCCART 22480.3 22330.3 46.0 20.0
RE DISCCART 22480.3 22330.3 46.0 30.0
RE DISCCART 22480.3 22330.3 46.0 40.0
RE DISCCART 22293.0 22414.4 5.4 1.5
RE DISCCART 22293.0 22414.4 5.4 10.0
RE DISCCART 22293.0 22414.4 5.4 20.0
RE DISCCART 22293.0 22414.4 5.4 30.0
RE DISCCART 22293.0 22414.4 5.4 40.0
RE DISCCART 22656.1 24750.4 9.0 1.5
RE DISCCART 22656.1 24750.4 9.0 10.0
RE DISCCART 22656.1 24750.4 9.0 20.0
RE DISCCART 22656.1 24750.4 9.0 30.0
RE DISCCART 22656.1 24750.4 9.0 40.0
RE DISCCART 23791.9 23263.2 2.6 1.5
RE DISCCART 23791.9 23263.2 2.6 10.0
RE DISCCART 23791.9 23263.2 2.6 20.0
RE DISCCART 23791.9 23263.2 2.6 30.0
RE DISCCART 23791.9 23263.2 2.6 40.0
RE FINISHED

```

```

ME STARTING
ME INPUTFIL CCH99.met (4i2,2(1x,f8.4),1x,f5.1,1x,il,2(1x,f6.1))
ME ANEMHGHT 98.5 METERS
ME SURFDATA 99999 1999
ME UAIRDATA 99999 1999
ME FINISHED

```

```

OU STARTING
OU RECTABLE ALLAVE FIRST SECOND
OU MAXTABLE ALLAVE 50
OU PLOTFILE 1 ALL first d_co_1.out
OU PLOTFILE ANNUAL ALL d_co_a.out
OU FINISHED

```

*** SETUP Finishes Successfully ***

*** ISCS T3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** CO Assessment (Hourly) *** 15:13:13

**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --

**Model Uses NO DRY DEPLETION. DDPLETE = F

**Model Uses NO WET DEPLETION. WDPLETE = F

**NO WET SCAVENGING Data Provided.

**NO GAS DRY DEPOSITION Data Provided.

**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:

1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates ANNUAL Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 20 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNNING After the Setup Testing.

**Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 98.50 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAM/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MIRCOGRAM/M3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: d-co.inp

**Output Print File: d-co.lst

**Detailed Error/Message File: ERRORS.LST

*** ISCS T3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** CO Assessment (Hourly) *** 15:13:13

**MODELOPTs: PAGE 2
CONC RURAL ELEV FLGPOL GRDRIS

*** POINT SOURCE DATA ***

NUMBER	EMISSION RATE	BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION RATE			
SOURCE	PART. (USER UNITS)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT VEL	DIAMETER	EXISTS	SCALAR	VARY
ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)	BY		

S2 0 0.51880E+00 22473.1 22540.5 5.7 8.00 373.00 8.00 0.40 NO
*** ISCS T3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** CO Assessment (Hourly) *** 15:13:13

**MODELOPTs: PAGE 3

CONC RURAL ELEV FLGPOL GRDRIS

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

ALL S2
*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** CO Assessment (Hourly) *** 15:13:13
**MODELOPTs: PAGE 4
CONC RURAL ELEV FLGPOL GRDRIS

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(22480.3, 22330.3, 46.0, 1.5); (22480.3, 22330.3, 46.0, 10.0);
(22480.3, 22330.3, 46.0, 20.0); (22480.3, 22330.3, 46.0, 30.0);
(22480.3, 22330.3, 46.0, 40.0); (22293.0, 22414.4, 5.4, 1.5);
(22293.0, 22414.4, 5.4, 10.0); (22293.0, 22414.4, 5.4, 20.0);
(22293.0, 22414.4, 5.4, 30.0); (22293.0, 22414.4, 5.4, 40.0);
(22656.1, 24750.4, 9.0, 1.5); (22656.1, 24750.4, 9.0, 10.0);
(22656.1, 24750.4, 9.0, 20.0); (22656.1, 24750.4, 9.0, 30.0);
(22656.1, 24750.4, 9.0, 40.0); (23791.9, 23263.2, 2.6, 1.5);
(23791.9, 23263.2, 2.6, 10.0); (23791.9, 23263.2, 2.6, 20.0);
(23791.9, 23263.2, 2.6, 30.0); (23791.9, 23263.2, 2.6, 40.0);
*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
*** CO Assessment (Hourly) *** 15:13:13
**MODELOPTs: PAGE 5
CONC RURAL ELEV FLGPOL GRDRIS

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111
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1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111
1111111111 111111

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

Table with 7 columns: STABILITY CATEGORY, WIND SPEED CATEGORY (1-6), and values for categories A-F.

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

Table with 7 columns: STABILITY CATEGORY, WIND SPEED CATEGORY (1-6), and values for categories A-F.

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
 *** CO Assessment (Hourly) *** 15:13:13
 **MODELOPTs: PAGE 6
 CONC RURAL ELEV FLGPOL GRDRIS

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: CCH99.met
 FORMAT: (412,2(1X,F8.4),1X,F5.1,1X,I1,2(1X,F6.1))
 SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999
 NAME: UNKNOWN NAME: UNKNOWN
 YEAR: 1999 YEAR: 1999

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-0 IPCODE PRATE
 YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

99	01	01	01	281.0	7.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	02	278.0	8.90	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	03	274.0	7.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	04	233.0	7.40	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	05	253.0	7.20	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	06	252.0	7.60	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	07	255.0	6.50	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	08	283.0	5.70	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	09	267.0	4.80	290.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	10	251.0	4.30	291.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	11	294.0	3.70	293.1	2	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	12	306.0	5.60	294.1	3	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	13	313.0	9.00	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	14	299.0	6.40	295.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	15	312.0	7.90	294.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	16	314.0	7.60	293.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	17	311.0	6.10	291.1	4	1274.0	1274.0	0.0000	0.0	0.0000	0	0.00
99	01	01	18	297.0	4.60	290.1	5	1271.9	1252.1	0.0000	0.0	0.0000	0	0.00
99	01	01	19	304.0	3.80	289.1	5	1262.4	1155.0	0.0000	0.0	0.0000	0	0.00
99	01	01	20	277.0	3.00	289.1	5	1253.0	1057.9	0.0000	0.0	0.0000	0	0.00
99	01	01	21	280.0	3.50	289.1	5	1243.5	960.9	0.0000	0.0	0.0000	0	0.00
99	01	01	22	282.0	5.60	289.1	4	1234.1	1234.1	0.0000	0.0	0.0000	0	0.00
99	01	01	23	280.0	5.20	289.1	4	1224.6	1224.6	0.0000	0.0	0.0000	0	0.00
99	01	01	24	260.0	4.00	289.1	5	1215.1	669.7	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
 FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

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 CONC RURAL ELEV FLGPOL GRDRIS

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MIRCOCGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
22480.30	22330.30	8.76936	22480.30	22330.30	8.90581
22480.30	22330.30	4.75927	22480.30	22330.30	1.01357
22480.30	22330.30	0.15588	22293.00	22414.40	2.07110
22293.00	22414.40	2.69903	22293.00	22414.40	3.37535
22293.00	22414.40	3.60283	22293.00	22414.40	1.84943
22656.10	24750.40	0.09958	22656.10	24750.40	0.09837
22656.10	24750.40	0.09445	22656.10	24750.40	0.08764
22656.10	24750.40	0.07817	23791.90	23263.20	0.12051
23791.90	23263.20	0.12344	23791.90	23263.20	0.12883
23791.90	23263.20	0.12848	23791.90	23263.20	0.11647

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 CONC RURAL ELEV FLGPOL GRDRIS

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MIRCOCGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
22480.30	22330.30	298.33170 (99011902)	22480.30	22330.30	328.98331 (99072401)

22480.30	22330.30	193.93915 (99122107)	22480.30	22330.30	60.70895 (99122107)
22480.30	22330.30	32.81834 (99111813)	22293.00	22414.40	128.34505 (99060407)
22293.00	22414.40	199.56038 (99030701)	22293.00	22414.40	469.72092 (99091006)
22293.00	22414.40	1056.35510 (99091006)	22293.00	22414.40	458.65848 (99051822)
22656.10	24750.40	34.28048 (99051820)	22656.10	24750.40	34.80231 (99051820)
22656.10	24750.40	35.16090 (99051820)	22656.10	24750.40	32.94164 (99051820)
22656.10	24750.40	27.12744 (99051820)	23791.90	23263.20	40.91479 (99060201)
23791.90	23263.20	50.53850 (99060201)	23791.90	23263.20	71.90953 (99060201)
23791.90	23263.20	86.23708 (99060201)	23791.90	23263.20	80.46538 (99022421)

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CONC RURAL ELEV FLGPOL GRDRIS

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MIRCOGRAM/M3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
22480.30	22330.30	298.16919 (99012802)	22480.30	22330.30	328.98325 (99090905)
22480.30	22330.30	192.43877 (99011213)	22480.30	22330.30	58.85673 (99011216)
22480.30	22330.30	30.22787 (99092710)	22293.00	22414.40	124.31541 (99110904)
22293.00	22414.40	192.24055 (99060407)	22293.00	22414.40	434.32852 (99012219)
22293.00	22414.40	1035.06714 (99012219)	22293.00	22414.40	439.94904 (99012219)
22656.10	24750.40	29.54482 (99070702)	22656.10	24750.40	29.19662 (99070702)
22656.10	24750.40	28.08199 (99070702)	22656.10	24750.40	26.11904 (99070702)
22656.10	24750.40	23.28674 (99070702)	23791.90	23263.20	39.82242 (99022421)
23791.90	23263.20	49.42707 (99022421)	23791.90	23263.20	70.94829 (99022421)
23791.90	23263.20	85.85830 (99022421)	23791.90	23263.20	80.05038 (99060201)

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CONC RURAL ELEV FLGPOL GRDRIS

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): S2

** CONC OF CO IN MIRCOGRAM/M3 **

RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE
1.	1056.35510 (99091006) AT (22293.00, 22414.40)	DC	26.	379.29718 (99051404) AT (22293.00, 22414.40)	DC
2.	1035.06714 (99012219) AT (22293.00, 22414.40)	DC	27.	378.99039 (99101602) AT (22293.00, 22414.40)	DC
3.	973.33081 (99022624) AT (22293.00, 22414.40)	DC	28.	377.15549 (99120923) AT (22293.00, 22414.40)	DC
4.	968.21484 (99021101) AT (22293.00, 22414.40)	DC	29.	372.90781 (99021804) AT (22293.00, 22414.40)	DC
5.	795.93542 (99030705) AT (22293.00, 22414.40)	DC	30.	369.98196 (99022223) AT (22293.00, 22414.40)	DC
6.	794.01709 (99012801) AT (22293.00, 22414.40)	DC	31.	367.15118 (99040804) AT (22293.00, 22414.40)	DC
7.	792.07605 (99022504) AT (22293.00, 22414.40)	DC	32.	363.08829 (99031323) AT (22293.00, 22414.40)	DC
8.	573.70038 (99070306) AT (22293.00, 22414.40)	DC	33.	363.07376 (99012002) AT (22293.00, 22414.40)	DC
9.	571.37958 (99081906) AT (22293.00, 22414.40)	DC	34.	362.63480 (99122607) AT (22293.00, 22414.40)	DC
10.	568.74969 (99030801) AT (22293.00, 22414.40)	DC	35.	362.55612 (99040921) AT (22293.00, 22414.40)	DC
11.	497.86548 (99051822) AT (22293.00, 22414.40)	DC	36.	360.63174 (99122601) AT (22293.00, 22414.40)	DC
12.	470.14899 (99040921) AT (22293.00, 22414.40)	DC	37.	355.70306 (99020722) AT (22293.00, 22414.40)	DC
13.	469.72092 (99091006) AT (22293.00, 22414.40)	DC	38.	354.18143 (99112504) AT (22293.00, 22414.40)	DC
14.	459.79349 (99060505) AT (22293.00, 22414.40)	DC	39.	349.40143 (99051404) AT (22293.00, 22414.40)	DC
15.	458.65848 (99051822) AT (22293.00, 22414.40)	DC	40.	344.78735 (99060505) AT (22293.00, 22414.40)	DC
16.	439.94904 (99012219) AT (22293.00, 22414.40)	DC	41.	339.12473 (99030705) AT (22293.00, 22414.40)	DC
17.	434.32852 (99012219) AT (22293.00, 22414.40)	DC	42.	337.70337 (99121403) AT (22293.00, 22414.40)	DC
18.	428.87762 (99021021) AT (22293.00, 22414.40)	DC	43.	336.57510 (99022504) AT (22293.00, 22414.40)	DC
19.	414.79309 (99022624) AT (22293.00, 22414.40)	DC	44.	335.65546 (99012801) AT (22293.00, 22414.40)	DC
20.	411.50580 (99021101) AT (22293.00, 22414.40)	DC	45.	334.96548 (99010508) AT (22293.00, 22414.40)	DC
21.	406.24826 (99021101) AT (22293.00, 22414.40)	DC	46.	332.55722 (99012801) AT (22293.00, 22414.40)	DC
22.	402.84778 (99091006) AT (22293.00, 22414.40)	DC	47.	332.27386 (99022504) AT (22293.00, 22414.40)	DC
23.	401.76047 (99022624) AT (22293.00, 22414.40)	DC	48.	329.28036 (99021702) AT (22293.00, 22414.40)	DC
24.	397.45450 (99090607) AT (22293.00, 22414.40)	DC	49.	328.98331 (99072401) AT (22480.30, 22330.30)	DC
25.	387.44312 (99040107) AT (22293.00, 22414.40)	DC	50.	328.98325 (99090905) AT (22480.30, 22330.30)	DC

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

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CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF CO IN MIRCOGRAM/M3 **

NETWORK
 GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

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ALL 1ST HIGHEST VALUE IS 8.90581 AT ( 22480.30, 22330.30, 46.00, 10.00) DC NA
2ND HIGHEST VALUE IS 8.76936 AT ( 22480.30, 22330.30, 46.00, 1.50) DC NA
3RD HIGHEST VALUE IS 4.75927 AT ( 22480.30, 22330.30, 46.00, 20.00) DC NA
4TH HIGHEST VALUE IS 3.60283 AT ( 22293.00, 22414.40, 5.40, 30.00) DC NA
5TH HIGHEST VALUE IS 3.37535 AT ( 22293.00, 22414.40, 5.40, 20.00) DC NA
6TH HIGHEST VALUE IS 2.69903 AT ( 22293.00, 22414.40, 5.40, 10.00) DC NA
7TH HIGHEST VALUE IS 2.07110 AT ( 22293.00, 22414.40, 5.40, 1.50) DC NA
8TH HIGHEST VALUE IS 1.84943 AT ( 22293.00, 22414.40, 5.40, 40.00) DC NA
9TH HIGHEST VALUE IS 1.01357 AT ( 22480.30, 22330.30, 46.00, 30.00) DC NA
10TH HIGHEST VALUE IS 0.15588 AT ( 22480.30, 22330.30, 46.00, 40.00) DC NA
  
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*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
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 CONC RURAL ELEV FLGPOL GRDRIS

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN MIRCOGRAM/M3 **

DATE NETWORK
 GROUP ID AVERAGE CONC (YYMMDDHH) RECEPTOR (XR, YR, ZELEV, ZFLAG) OF TYPE GRID-ID

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ALL HIGH 1ST HIGH VALUE IS 1056.35510 ON 99091006: AT ( 22293.00, 22414.40, 5.40, 30.00) DC NA
HIGH 2ND HIGH VALUE IS 1035.06714 ON 99012219: AT ( 22293.00, 22414.40, 5.40, 30.00) DC NA
  
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*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

*** ISCST3 - VERSION 00101 *** *** Cheoy Lee Shipyard Excavation *** 01/16/02
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**MODELOPTs: PAGE 13
 CONC RURAL ELEV FLGPOL GRDRIS

*** Message Summary : ISCST3 Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 10 Warning Message(s)
 A Total of 817 Informational Message(s)
 A Total of 817 Calm Hours Identified

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****

MX W420 797 METQA :Wind Speed Out-of-Range. KURDAT= 99020305
 MX W420 1658 METQA :Wind Speed Out-of-Range. KURDAT= 99031102
 MX W420 1659 METQA :Wind Speed Out-of-Range. KURDAT= 99031103
 MX W420 6200 METQA :Wind Speed Out-of-Range. KURDAT= 99091608
 MX W420 6207 METQA :Wind Speed Out-of-Range. KURDAT= 99091615
 MX W420 6208 METQA :Wind Speed Out-of-Range. KURDAT= 99091616
 MX W420 6209 METQA :Wind Speed Out-of-Range. KURDAT= 99091617
 MX W420 6221 METQA :Wind Speed Out-of-Range. KURDAT= 99091705
 MX W420 6222 METQA :Wind Speed Out-of-Range. KURDAT= 99091706
 MX W420 6223 METQA :Wind Speed Out-of-Range. KURDAT= 99091707

 *** ISCST3 Finishes Successfully ***
