2.5

Remedial Investigation Report for the Eastern Michaud Flats Site

Part III
Appendices AF – AM for Air Quality Characterization

Prepared for
FMC Corporation
J.R. Simplot Company

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Bechtel Environmental, Inc.

August 1996

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Appendix AF

Emission Inventory Calculations

Emission Inventory Equations

This appendix describes the equations used to calculate the emissions from the different types of sources found at the facilities. These equations were used for calculating PM_{10}, TSP, and total fluoride emission rates. Three types of emission rates were calculated: uncontrolled, process fugitive, and controlled. The controlled and uncontrolled emission rates could be calculated two different ways depending on the facility information provided. The process fugitive emission rates were calculated only one way, based on the uncontrolled emission rate. Two other equations were used to calculate the emission rates from wind erosion of stockpiles and roads. The emission rate equations are described below.

Controlled Emission Rates

Two types of information could be used to calculate the controlled emission rates. One type is source emission tests (SETs) conducted by the facilities. The SET is a measured emission rate from a stack source. This is considered the best type of information. The second type is using estimated from AP-42. The estimates are usually from several stack tests from the same type of process (not at the facility) or from a different process which uses approximately the same type of material and operation. For TSP and total fluoride, the PM_{10} fraction was not used in the formulas below.

SETs were performed at both facilities for most point sources (i.e., stacks, baghouses, scrubbers, vents, and coolers). Any SET result reported to State or Federal agencies by the facilities were used in the inventories.

If a SET was performed for a particular source, the following calculation was used to estimate the controlled maximum daily emission rate:

E = SET * RATE * controlled PM_{10} fraction (1)
where: E = Controlled emission rate in mass/time
SET = Source emission test in mass/time
RATE = Period of operations in time/time
controlled PM_{10} fraction = PM_{10} fraction of the measured particulate

The average annual controlled emission rate was calculated by accounting for the number of days/year that a particular activity took place or an annualization of the emissions by 365 days/year.

For point sources without SETs, AP-42 guidance and emission factors were used for the specific or equivalent processes. PM_{10} fractions were obtained from AP-42 or agreed upon by EPA Region 10 and/or the State of Idaho. Capture and control efficiencies were provided by each facility based on manufacturers' specifications, industry recognized control technologies or agreed to by EPA Region 10/Idaho's Department of Environmental Quality. The maximum daily emission rates were calculated using the following formula:

$$E = U * (1\text{-}CE) * CAP * PM_{10}\ \text{fraction} \qquad (2)$$

where: E = Emission rate in mass/time
U = Uncontrolled emission rate in mass/time (equation 5)
CE = Control efficiency
CAP = Capture efficiency of control device
PM_{10} fraction = PM_{10} fraction of the SET

The annual average emission rate was calculated using the annual average material processed or an annualization of the emission rate by 365 days/year. The area source emission rates were calculated with equation 2 except that no capture efficiency was used.

Uncontrolled and Process Fugitive Emission Rates

The uncontrolled and process fugitive emission rates for point sources using SET emission factors were back-calculated using the following equations:

$$U = SET / (CAP * (1\text{-}CE)) \qquad (3)$$
$$F = U * (1\text{-}CAP) \qquad (4)$$

where: U = Uncontrolled emission rate in mass/time
F = Fugitive emissions from capture device inefficiency in mass/time
SET = Source emission test in mass/time
CAP = Building and/or device capture efficiency
CE = Control efficiency (%)

$$U = EF * AMT \qquad (5)$$

where: EF = Emission factor in mass/ton
AMT = Amount of material processed in tons

Special Emission Rate Equations
Emission rates for wind erosion of a stockpile were calculated using the following equation:

$$E = EF * AREA * TIME * (1-CE) \qquad (6)$$

where: E = Emission rate in mass/time
EF = Emission factor in mass/length^2/time
AREA = Area of the storage piles in length^2
TIME = The time the storage pile is either active or inactive in time/time
CE = Control efficiency due to the application of dust suppressants (%)

Emission rates from vehicle traffic on the roads were calculated using the following equation:

$$E = EF * DIST * (1-CE) \qquad (7)$$

where: E = Emission rate in mass/time
EF = Emission factor in mass/vehicle mile traveled
DIST = Distance per trip in length/time
CE = Control efficiency due to the application of dust suppressants (%)

Appendix AG

Building Profile Input Program (BPIP) Run Information

Appendix AG-1

Simplot Output

This appendix contains the building downwash analysis from BPIP for Simplot sources. The input contains most of Simplot's large and tall buildings and all the point sources. The output was placed into the II2 model input file.

```
'BPIP DOWNWASH FILE CONVERTED FROM BREEZWAKE FILE snh3.bld+revisons'
'ST'
'METERS' 1.00
'UTMY',  0.0
 45
'BLDG   1'  1  1356.  Phos Acid PLANT
 4     25.900
 375569.60 4751632.00
 375599.60 4751622.00
 375596.80 4751613.00
 375566.80 4751623.00
'BLDG   2'  1  1356.  Mill Bldg.
 4     19.800
 375606.70 4751621.00
 375638.80 4751610.00
 375636.00 4751602.00
 375603.90 4751612.00
'BLDG   3'  1  1356.  Pan Filter
 8     25.900
 375618.50 4751652.00
 375601.90 4751657.00
 375604.80 4751666.00
 375585.10 4751673.00
 375573.40 4751632.00
 375600.60 4751624.00
 375603.10 4751623.00
 375611.50 4751630.00
'BLDG   4'  1  1356.  Calciner
 6     35.400
 375528.20 4751528.30
 375536.20 4751555.00
 375590.50 4751538.40
 375586.20 4751524.70
 375563.50 4751532.00
 375559.40 4751518.80
'BLDG   5'  1  1356.  Boiler Bldg.
 4      9.200
 375542.00 4751653.00
 375564.10 4751646.00
 375558.70 4751629.00
 375536.60 4751636.00
'BLDG   6'  1  1356.  Raw Ore
 8     24.400
 375629.60 4751504.00
 375619.30 4751525.00
 375597.60 4751532.00
 375577.30 4751522.00
 375570.20 4751500.00
 375580.50 4751480.00
 375602.20 4751472.00
 375622.50 4751483.00
'BLDG   7'  1  1356.  Phos Acid Control Ro
10     29.300
 375668.60 4751647.00
 375639.60 4751656.00
 375638.50 4751652.00
 375621.40 4751658.00
 375612.90 4751631.00
 375628.30 4751626.00
 375625.70 4751618.00
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 375662.90 4751606.00
 375665.20 4751613.00
 375658.60 4751615.00
'BLDG   8'  1  1356.  Evaportor #11
 4     30.500
 375662.50 4751677.00
 375676.90 4751672.00
 375668.60 4751647.00
 375654.20 4751651.00
'BLDG   9'  1  1356.  TSP
 4     16.800
 375900.20 4751592.00
 375738.40 4751590.00
 375754.00 4751638.00
 375884.90 4751543.00
'BLDG  10'  1  1356.  Sizing Bldg
 4     18.300
 375684.60 4751554.00
 375688.90 4751569.00
 375681.40 4751571.00
 375676.90 4751557.00
'BLDG  11'  1  1356.  AP#1
 4     23.500
 375426.60 4751651.00
 375412.20 4751656.00
 375401.40 4751623.00
 375415.80 4751618.00
'BLDG  12'  1  1356.  AP#2A
 6     14.000
 375395.00 4751605.00
 375410.00 4751600.00
 375403.50 4751580.00
 375388.50 4751585.00
 375399.10 4751567.00
 375384.10 4751572.00
'BLDG  13'  1  1356.  AP#2B
 4     29.600
 375388.50 4751585.00
 375403.50 4751580.00
 375399.10 4751567.00
 375384.10 4751572.00
'BLDG  14'  1  1356.  AP#1 Storage
 4     16.200
 375246.10 4751714.00
 375407.20 4751662.00
 375395.70 4751627.00
 375234.60 4751679.00
'BLDG  15'  1  1356.  AP#2 Storage
 4     16.200
 375228.90 4751660.00
 375390.00 4751607.00
 375378.70 4751573.00
 375217.60 4751625.00
'BLDG  16'  1  1356.  AS Dome
 8     16.800
 375386.20 4751546.00
 375367.70 4751548.00
 375353.60 4751536.00
 375352.20 4751517.00
 375364.40 4751503.00
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 375382.90 4751502.00
 375397.00 4751514.00
 375398.40 4751532.00
'BLDG  17'  1  1356.  AP Maintenance
 4      6.100
 375438.50 4751610.00
 375430.60 4751612.00
 375434.90 4751626.00
 375442.70 4751623.00
'BLDG  18'  1  1356.  Super P205 West #1
 8      9.200
 375436.90 4751681.00
 375432.80 4751682.00
 375429.30 4751680.00
 375428.50 4751675.00
 375430.90 4751672.00
 375435.00 4751671.00
 375438.50 4751674.00
 375439.30 4751678.00
'BLDG  19'  1  1356.  Super P205 East #2
 8      9.200
 375451.40 4751676.00
 375447.30 4751678.00
 375443.50 4751676.00
 375442.10 4751672.00
 375444.00 4751668.00
 375448.10 4751666.00
 375451.90 4751668.00
 375453.30 4751672.00
'BLDG  20'  1  1356.  SPA E. Cooling
 5     13.700
 375420.10 4751675.00
 375422.60 4751687.00
 375413.70 4751689.00
 375411.00 4751678.00
 375419.90 4751675.00
'BLDG  21'  1  1356.  AS
 4     21.300
 375429.30 4751591.00
 375423.50 4751573.00
 375413.60 4751576.00
 375419.50 4751594.00
'BLDG  22'  1  1356.  Ammosox tank
 8      9.200
 375420.80 4751566.00
 375417.80 4751569.00
 375414.20 4751568.00
 375412.00 4751565.00
 375412.60 4751561.00
 375415.60 4751559.00
 375419.20 4751560.00
 375421.40 4751563.00
'BLDG  23'  1  1356.  AS Loading
 7     12.200
 375360.60 4751567.00
 375366.80 4751564.00
 375363.30 4751553.00
 375367.30 4751546.00
 375353.30 4751531.00
 375342.20 4751553.00
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 375347.80 4751570.00
'BLDG  24'  1  1356.  AP#1 Loading
 4     24.400
 375258.40 4751741.00
 375253.30 4751727.00
 375241.30 4751731.00
 375246.40 4751746.00
'BLDG  25'  1  1356.  SPA W. Cooling
 4     12.500
 375304.90 4751743.00
 375302.90 4751729.00
 375291.80 4751731.00
 375293.70 4751744.00
'BLDG  26'  1  1356.  #3 Bldg.
 6     18.300
 375377.20 4751729.00
 375375.50 4751718.00
 375351.80 4751722.00
 375352.60 4751727.00
 375363.30 4751726.00
 375364.10 4751731.00
'BLDG  26'  1  1356.  SPA Bldgs.
 6      9.200
 375336.90 4751717.00
 375365.40 4751705.00
 375364.60 4751703.00
 375370.40 4751701.00
 375368.70 4751695.00
 375333.70 4751706.00
'BLDG  28'  1  1356.  #4 Turbo-generator
 6     21.300
 375217.80 4751597.00
 375241.70 4751589.00
 375235.70 4751570.00
 375208.60 4751579.00
 375210.50 4751585.00
 375213.70 4751584.00
'BLDG  29'  1  1356.  Sulfur #1 Tank
 8      9.200
 375234.30 4751528.00
 375230.40 4751532.00
 375225.00 4751532.00
 375221.30 4751528.00
 375221.50 4751523.00
 375225.40 4751519.00
 375230.80 4751519.00
 375234.50 4751523.00
'BLDG  30'  1  1356.  Sulfur #2 Tank
 8      9.200
 375250.00 4751525.00
 375245.00 4751526.00
 375240.60 4751524.00
 375239.40 4751519.00
 375242.00 4751514.00
 375247.00 4751513.00
 375251.40 4751516.00
 375252.60 4751521.00
'BLDG  31'  1  1356.  #4 Cooling
 4      9.200
 375257.90 4751522.00
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 375284.90 4751513.00
 375281.50 4751503.00
 375254.50 4751512.00
'BLDG  32'  1  1356.  Tank #51
 8       7.600
 375577.40 4751688.00
 375570.90 4751688.00
 375565.80 4751684.00
 375565.10 4751678.00
 375569.50 4751673.00
 375575.70 4751672.00
 375580.80 4751676.00
 375581.50 4751682.00
'BLDG  33'  1  1356.  Tank #52
 8       7.600
 375560.40 4751693.00
 375554.30 4751693.00
 375550.00 4751689.00
 375549.90 4751683.00
 375554.20 4751678.00
 375560.30 4751678.00
 375564.60 4751683.00
 375564.70 4751689.00
'BLDG  34'  1  1356.  Tank #53
 8      10.700
 375527.10 4751669.00
 375520.90 4751671.00
 375515.60 4751667.00
 375514.40 4751661.00
 375517.90 4751656.00
 375524.10 4751654.00
 375529.40 4751658.00
 375530.60 4751664.00
'BLDG  35'  1  1356.  Cal. Ore Silo #1
 8      45.800
 375592.10 4751565.00
 375587.90 4751565.00
 375584.90 4751563.00
 375584.80 4751558.00
 375587.70 4751555.00
 375591.90 4751555.00
 375594.90 4751558.00
 375595.00 4751562.00
'BLDG  36'  1  1356.  Cal. Ore Silo #2
 8      45.800
 375606.90 4751563.00
 375601.90 4751563.00
 375598.40 4751559.00
 375598.40 4751554.00
 375601.90 4751551.00
 375606.90 4751551.00
 375610.40 4751554.00
 375610.40 4751559.00
'BLDG  37'  1  1356.  Cal. Ore Silo #3
 8      45.800
 375595.70 4751551.00
 375591.40 4751551.00
 375588.20 4751548.00
 375587.90 4751544.00
 375590.70 4751541.00
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 375595.00 4751540.00
 375598.20 4751543.00
 375598.50 4751548.00
'BLDG  38'  1  1356.  Water Softner
 4      12.200
 375530.30 4751656.00
 375541.80 4751652.00
 375537.70 4751640.00
 375526.20 4751643.00
'BLDG  39'  1  1356.  Ammonia Tank
 8      22.900
 375571.50 4751454.00
 375561.90 4751457.00
 375553.40 4751452.00
 375550.90 4751442.00
 375555.90 4751433.00
 375565.50 4751431.00
 375574.00 4751436.00
 375576.50 4751446.00
'BLDG  40'  1  1356.  Pilot Plant
 4       9.200
 375381.00 4751469.00
 375383.20 4751479.00
 375391.60 4751477.00
 375389.10 4751467.00
'BLDG  41'  1  1356.  Ammonia Maintenance
 6       4.600
 375436.70 4751611.00
 375439.50 4751610.00
 375443.20 4751624.00
 375436.70 4751626.00
 375436.60 4751626.00
 375433.00 4751612.00
'BLDG  42'  1  1356.  #4 Boiler
 7      21.300
 375235.60 4751570.00
 375247.80 4751567.00
 375250.00 4751574.00
 375290.70 4751564.00
 375281.30 4751533.00
 375221.70 4751551.00
 375227.10 4751569.00
'BLDG  43'  1  1356.  East Cooling Twr
 4      11.600
 375797.30 4751489.00
 375832.70 4751478.00
 375835.40 4751487.00
 375800.10 4751498.00
'BLDG  44'  1  1356.  West Cooling Twr
 4      10.700
 375770.70 4751507.00
 375795.10 4751498.00
 375792.20 4751488.00
 375767.50 4751495.00
'BLDG  45'  1  1356.  North Cooling Twr
 4      11.600
 375771.70 4751522.00
 375777.40 4751542.00
 375786.20 4751541.00
 375779.60 4751521.00
```

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25
'PHOSACID' 1356 54.6 375616.5 4751615.0
'1APRGVSC' 1356 29.9 375412.8 4751633.0
'1APBAGHO' 1356 29.9 375416.3 4751638.0
'1APDRYVS' 1356 29.9 375413.2 4751639.0
'2APTGSVS' 1356 45.7 375401.1 4751567.0
'2APCOOLB' 1356 18.3 375395.9 4751603.0
'TSP'      1356 53.3 375676.6 4751603.0
'ASDRYVSC' 1356 23.2 375421.8 4751575.0
'ASCOOLCY' 1356 21.3 375416.7 4751577.0
'CEBOILER' 1356 13.4 375552.6 4751640.0
'FWBOILER' 1356 10.7 375546.2 4751643.0
'KBOILER'  1356 13.7 375554.0 4751660.0
'H2ONTWR'  1356 11.6 375779.4 4751530.0
'H2OETWR'  1356 10.7 375816.8 4751488.0
'H2OWTWR'  1356 11.6 375781.3 4751497.0
'AMMONIA1' 1356 18.3 375492.6 4751477.0
'AMMONIA2' 1356 18.3 375477.3 4751430.0
'AMMFLARE' 1356  6.1 375597.3 4751425.0
'3SULFURS' 1356 61.6 375285.2 4751740.0
'4SULFURS' 1356 64.0 375271.9 4751539.0
'NITRICAS' 1356 27.1 375439.9 4751471.0
'SPA'      1356 10.7 375406.6 4751686.0
'UAN32'    1356 7.32 375435.8 4751453.0
'TANKFARM' 1356 35.1 375635.3 4751644.6
'CALC1'    1356 45.7 375641.4 4751591.0
0
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BPIP (Dated: 95039)

DATE : 3/ 7/95
TIME : 16:55:38
BPIP DOWNWASH FILE CONVERTED FROM BREEZWAKE FILE snh3.bld+revisons

==========
BPIP PROCESSING INFORMATION:
==========

The ST flag has been set for processing for an ISCST2 run.

Inputs entered in METERS will be converted to meters using a conversion factor of 1.0000. Output will be in meters.

The UTMP variable is set to UTMY. The input is assumed to be in UTM coordinates. BPIP will move the UTM origin to the first pair of UTM coordinates read. The UTM coordinates of the new origin will be subtracted from all the other UTM coordinates entered to form this new local coordinate system.

Plant north is set to .00 degrees with respect to True North.

BPIP DOWNWASH FILE CONVERTED FROM BREEZWAKE FILE snh3.bld+revisons

PRELIMINARY* GEP STACK HEIGHT RESULTS TABLE
(Output Units: meters)

Stack Name	Stack Height	Stack-Building Base Elevation Differences	GEP** EQN1	Preliminary* GEP Stack Height Value
PHOSACID	54.60	.00	88.50	88.50
GRAN1RNG	29.90	.00	88.50	88.50
GRAN1BAG	29.90	.00	88.50	88.50
GRAN1DRY	29.90	.00	88.50	88.50
GRAN2TGS	45.70	.00	88.50	88.50
GRAN2COL	18.30	.00	88.50	88.50
GRAN3	53.30	.00	88.50	88.50
ASDRYVSC	23.20	.00	88.50	88.50
ASCOOLCY	21.30	.00	88.50	88.50
CEBOILER	13.40	.00	88.50	88.50
FWBOILER	10.70	.00	88.50	88.50
KEBOILER	13.70	.00	88.50	88.50
H2ONTWR	11.60	.00	88.50	88.50
H2OETWR	10.70	.00	29.00	65.00
H2OWTWR	11.60	.00	29.00	65.00
AMMONIA1	18.30	.00	88.50	88.50
AMMONIA2	18.30	.00	88.50	88.50
AMMFLARE	6.10	.00	88.50	88.50
3SULFURS	61.60	.00	54.72	65.00
4SULFURS	64.00	.00	53.25	65.00
NITRICAS	27.10	.00	88.50	88.50
SPA	10.70	.00	58.75	65.00
UAN32	7.32	.00	88.50	88.50
TANKFARM	35.10	.00	88.50	88.50
CALC1	45.70	.00	88.50	88.50

* Results are based on Determinants 1 & 2 on pages 1 & 2 of the GEP Technical Support Document. Determinant 3 may be investigated for additional stack height credit. Final values result after Determinant 3 has been taken into consideration.

** Results were derived from Equation 1 on page 6 of GEP Technical Support Document. Values have been adjusted for any stack-building base elevation differences.

Note: Criteria for determining stack heights for modeling emission limitations for a source can be found in Table 3.1 of the GEP Technical Support Document.

BPIP (Dated: 95039)

DATE : 3/ 7/95
TIME : 16:55:38

BPIP DOWNWASH FILE CONVERTED FROM BREEZWAKE FILE snh3.bld+revisons

BPIP output is in meters

SO	BUILDHGT	PHOSACID	35.40	35.40	35.40	35.40	35.40	35.40
SO	BUILDHGT	PHOSACID	30.50	29.30	29.30	29.30	29.30	29.30
SO	BUILDHGT	PHOSACID	29.30	29.30	29.30	29.30	35.40	35.40
SO	BUILDHGT	PHOSACID	35.40	35.40	35.40	35.40	35.40	35.40
SO	BUILDHGT	PHOSACID	30.50	29.30	29.30	29.30	29.30	29.30
SO	BUILDHGT	PHOSACID	29.30	29.30	29.30	29.30	35.40	35.40
SO	BUILDWID	PHOSACID	59.60	57.35	58.45	57.78	55.35	51.24
SO	BUILDWID	PHOSACID	30.28	58.42	52.00	45.19	41.92	46.56
SO	BUILDWID	PHOSACID	49.79	52.95	56.24	57.81	86.28	82.20
SO	BUILDWID	PHOSACID	76.49	70.07	64.76	57.78	55.35	51.24
SO	BUILDWID	PHOSACID	30.28	58.42	52.00	45.19	41.92	46.56
SO	BUILDWID	PHOSACID	49.79	52.95	56.24	57.81	86.28	82.20
SO	BUILDHGT	GRAN1RNG	29.60	29.60	29.60	23.50	23.50	23.50
SO	BUILDHGT	GRAN1RNG	23.50	23.50	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1RNG	23.50	23.50	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1RNG	23.50	21.30	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1RNG	23.50	23.50	23.50	23.50	35.40	35.40
SO	BUILDHGT	GRAN1RNG	35.40	23.50	23.50	23.50	23.50	23.50
SO	BUILDWID	GRAN1RNG	17.72	16.12	18.18	27.18	31.42	34.71
SO	BUILDWID	GRAN1RNG	36.94	38.05	38.00	36.80	34.93	36.85
SO	BUILDWID	GRAN1RNG	37.65	37.30	35.82	33.26	29.68	25.20
SO	BUILDWID	GRAN1RNG	19.95	36.99	22.12	27.18	31.42	34.71
SO	BUILDWID	GRAN1RNG	36.94	38.05	38.00	36.80	59.52	39.90
SO	BUILDWID	GRAN1RNG	47.78	37.30	35.82	33.26	29.68	25.20
SO	BUILDHGT	GRAN1BAG	29.60	29.60	29.60	23.50	23.50	23.50
SO	BUILDHGT	GRAN1BAG	23.50	23.50	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1BAG	23.50	23.50	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1BAG	23.50	21.30	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1BAG	23.50	23.50	23.50	23.50	35.40	35.40

SO	BUILDHGT	GRAN1BAG	35.40	35.40	23.50	23.50	23.50	23.50
SO	BUILDWID	GRAN1BAG	17.72	16.12	18.18	27.18	31.42	34.71
SO	BUILDWID	GRAN1BAG	36.94	38.05	38.00	36.80	34.93	36.85
SO	BUILDWID	GRAN1BAG	37.65	37.30	35.82	33.26	29.68	25.20
SO	BUILDWID	GRAN1BAG	19.95	36.99	22.12	27.18	31.42	34.71
SO	BUILDWID	GRAN1BAG	36.94	38.05	38.00	36.80	59.52	39.90
SO	BUILDWID	GRAN1BAG	47.78	54.22	35.82	33.26	29.68	25.20
SO	BUILDHGT	GRAN1DRY	29.60	29.60	29.60	23.50	23.50	23.50
SO	BUILDHGT	GRAN1DRY	23.50	23.50	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1DRY	23.50	23.50	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1DRY	23.50	21.30	23.50	23.50	23.50	23.50
SO	BUILDHGT	GRAN1DRY	23.50	23.50	23.50	23.50	35.40	35.40
SO	BUILDHGT	GRAN1DRY	35.40	35.40	23.50	23.50	23.50	23.50
SO	BUILDWID	GRAN1DRY	17.72	16.12	18.18	27.18	31.42	34.71
SO	BUILDWID	GRAN1DRY	36.94	38.05	38.00	36.80	34.93	36.85
SO	BUILDWID	GRAN1DRY	37.65	37.30	35.82	33.26	29.68	25.20
SO	BUILDWID	GRAN1DRY	19.95	36.99	22.12	27.18	31.42	34.71
SO	BUILDWID	GRAN1DRY	36.94	38.05	38.00	36.80	59.52	39.90
SO	BUILDWID	GRAN1DRY	47.78	54.22	35.82	33.26	29.68	25.20
SO	BUILDHGT	GRAN2TGS	29.60	29.60	29.60	29.60	29.60	29.60
SO	BUILDHGT	GRAN2TGS	29.60	29.60	29.60	29.60	21.30	29.60
SO	BUILDHGT	GRAN2TGS	29.60	29.60	29.60	29.60	29.60	23.50
SO	BUILDHGT	GRAN2TGS	29.60	29.60	29.60	29.60	29.60	29.60
SO	BUILDHGT	GRAN2TGS	29.60	29.60	35.40	35.40	35.40	29.60
SO	BUILDHGT	GRAN2TGS	29.60	29.60	29.60	29.60	29.60	29.60
SO	BUILDWID	GRAN2TGS	17.72	16.12	18.18	19.69	20.60	20.89
SO	BUILDWID	GRAN2TGS	20.54	19.57	18.00	15.89	33.31	16.63
SO	BUILDWID	GRAN2TGS	18.60	20.00	20.80	20.97	20.49	25.20
SO	BUILDWID	GRAN2TGS	17.72	16.12	18.18	19.69	20.60	20.89
SO	BUILDWID	GRAN2TGS	20.54	19.57	36.20	51.78	59.52	16.63
SO	BUILDWID	GRAN2TGS	18.60	20.00	20.80	20.97	20.49	19.40
SO	BUILDHGT	GRAN2COL	29.60	29.60	29.60	29.60	29.60	23.50
SO	BUILDHGT	GRAN2COL	23.50	23.50	21.30	21.30	21.30	21.30
SO	BUILDHGT	GRAN2COL	21.30	29.60	29.60	29.60	29.60	23.50
SO	BUILDHGT	GRAN2COL	29.60	29.60	29.60	29.60	29.60	23.50
SO	BUILDHGT	GRAN2COL	23.50	23.50	21.30	35.40	35.40	35.40
SO	BUILDHGT	GRAN2COL	21.30	29.60	29.60	29.60	29.60	23.50
SO	BUILDWID	GRAN2COL	17.72	16.12	18.18	19.69	20.60	34.71
SO	BUILDWID	GRAN2COL	36.94	38.05	27.00	30.13	33.31	39.05
SO	BUILDWID	GRAN2COL	21.58	20.00	20.80	20.97	20.49	25.20
SO	BUILDWID	GRAN2COL	17.72	16.12	18.18	19.69	20.60	34.71
SO	BUILDWID	GRAN2COL	36.94	38.05	27.00	51.78	59.52	39.90
SO	BUILDWID	GRAN2COL	21.58	20.00	20.80	20.97	20.49	25.20
SO	BUILDHGT	GRAN3	29.30	29.30	29.30	29.30	35.40	35.40
SO	BUILDHGT	GRAN3	35.40	29.30	29.30	29.30	29.30	29.30
SO	BUILDHGT	GRAN3	29.30	30.50	30.50	30.50	29.30	29.30
SO	BUILDHGT	GRAN3	29.30	29.30	29.30	29.30	29.30	29.30
SO	BUILDHGT	GRAN3	29.30	29.30	29.30	29.30	29.30	29.30
SO	BUILDHGT	GRAN3	29.30	30.50	30.50	30.50	29.30	29.30
SO	BUILDWID	GRAN3	54.63	56.78	61.94	65.22	55.35	51.24
SO	BUILDWID	GRAN3	45.57	58.42	52.00	45.19	41.92	46.56
SO	BUILDWID	GRAN3	49.79	30.89	30.16	28.51	57.63	55.70

SO	BUILDWID	GRAN3	54.63	56.78	61.94	65.22	66.51	65.78
SO	BUILDWID	GRAN3	63.06	58.42	52.00	45.19	41.92	46.56
SO	BUILDWID	GRAN3	49.79	30.89	30.16	28.51	57.63	55.70
SO	BUILDHGT	ASDRYVSC	21.30	21.30	21.30	21.30	29.60	29.60
SO	BUILDHGT	ASDRYVSC	29.60	29.60	29.60	29.60	21.30	29.60
SO	BUILDHGT	ASDRYVSC	29.60	21.30	23.50	23.50	23.50	23.50
SO	BUILDHGT	ASDRYVSC	23.50	21.30	21.30	21.30	29.60	29.60
SO	BUILDHGT	ASDRYVSC	29.60	29.60	35.40	35.40	35.40	35.40
SO	BUILDHGT	ASDRYVSC	29.60	21.30	23.50	23.50	23.50	23.50
SO	BUILDWID	ASDRYVSC	41.21	36.99	36.31	34.53	20.60	20.89
SO	BUILDWID	ASDRYVSC	20.54	19.57	18.00	15.89	33.31	16.63
SO	BUILDWID	ASDRYVSC	18.60	21.67	35.82	33.26	29.68	25.20
SO	BUILDWID	ASDRYVSC	19.95	36.99	36.31	34.53	20.60	20.89
SO	BUILDWID	ASDRYVSC	20.54	19.57	46.20	51.78	59.52	39.90
SO	BUILDWID	ASDRYVSC	18.60	21.67	35.82	33.26	29.68	25.20
SO	BUILDHGT	ASCOOLCY	21.30	21.30	21.30	29.60	29.60	29.60
SO	BUILDHGT	ASCOOLCY	29.60	29.60	29.60	29.60	21.30	29.60
SO	BUILDHGT	ASCOOLCY	29.60	29.60	29.60	23.50	23.50	23.50
SO	BUILDHGT	ASCOOLCY	23.50	21.30	21.30	29.60	29.60	29.60
SO	BUILDHGT	ASCOOLCY	29.60	29.60	35.40	35.40	35.40	35.40
SO	BUILDHGT	ASCOOLCY	29.60	29.60	29.60	23.50	23.50	23.50
SO	BUILDWID	ASCOOLCY	41.21	36.99	36.31	19.69	20.60	20.89
SO	BUILDWID	ASCOOLCY	20.54	19.57	18.00	15.89	33.31	16.63
SO	BUILDWID	ASCOOLCY	18.60	20.00	20.80	33.26	29.68	25.20
SO	BUILDWID	ASCOOLCY	19.95	36.99	36.31	19.69	20.60	20.89
SO	BUILDWID	ASCOOLCY	20.54	19.57	46.20	51.78	59.52	39.90
SO	BUILDWID	ASCOOLCY	18.60	20.00	20.80	33.26	29.68	25.20
SO	BUILDHGT	CEBOILER	35.40	35.40	25.90	25.90	25.90	25.90
SO	BUILDHGT	CEBOILER	29.30	29.30	25.90	25.90	29.30	25.90
SO	BUILDHGT	CEBOILER	25.90	35.40	35.40	25.90	25.90	9.20
SO	BUILDHGT	CEBOILER	35.40	35.40	25.90	25.90	25.90	25.90
SO	BUILDHGT	CEBOILER	30.50	30.50	30.50	29.30	29.30	25.90
SO	BUILDHGT	CEBOILER	25.90	35.40	35.40	35.40	35.40	35.40
SO	BUILDWID	CEBOILER	59.60	57.35	44.36	47.86	49.91	52.30
SO	BUILDWID	CEBOILER	63.06	58.42	50.00	46.11	41.92	45.14
SO	BUILDWID	CEBOILER	46.23	82.70	86.54	30.48	32.13	27.50
SO	BUILDWID	CEBOILER	76.49	70.07	44.36	47.86	49.91	52.30
SO	BUILDWID	CEBOILER	30.28	30.60	30.00	45.19	41.92	45.14
SO	BUILDWID	CEBOILER	46.23	82.70	86.54	62.00	63.11	62.30
SO	BUILDHGT	FWBOILER	35.40	9.20	12.20	25.90	25.90	25.90
SO	BUILDHGT	FWBOILER	29.30	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	FWBOILER	25.90	35.40	25.90	25.90	12.20	12.20
SO	BUILDHGT	FWBOILER	35.40	9.20	12.20	25.90	25.90	25.90
SO	BUILDHGT	FWBOILER	30.50	30.50	30.50	29.30	29.30	25.90
SO	BUILDHGT	FWBOILER	25.90	35.40	35.40	35.40	35.40	35.40
SO	BUILDWID	FWBOILER	59.60	23.90	14.41	47.86	49.91	52.30
SO	BUILDWID	FWBOILER	63.06	52.37	50.00	46.11	42.69	45.14
SO	BUILDWID	FWBOILER	46.23	82.70	27.91	30.48	16.93	15.60
SO	BUILDWID	FWBOILER	76.49	23.90	14.41	47.86	49.91	52.30
SO	BUILDWID	FWBOILER	30.28	30.60	30.00	45.19	41.92	45.14
SO	BUILDWID	FWBOILER	46.23	82.70	59.00	62.00	63.11	62.30

SO	BUILDHGT	KEBOILER	35.40	9.20	12.20	12.20	25.90	25.90
SO	BUILDHGT	KEBOILER	25.90	29.30	25.90	25.90	25.90	25.90
SO	BUILDHGT	KEBOILER	29.30	25.90	25.90	25.90	25.90	25.90
SO	BUILDHGT	KEBOILER	9.20	9.20	12.20	12.20	25.90	25.90
SO	BUILDHGT	KEBOILER	25.90	30.50	30.50	29.30	29.30	29.30
SO	BUILDHGT	KEBOILER	29.30	25.90	35.40	35.40	35.40	35.40
SO	BUILDWID	KEBOILER	59.60	23.90	14.41	15.95	49.91	52.30
SO	BUILDWID	KEBOILER	53.14	58.42	50.00	46.11	42.69	45.14
SO	BUILDWID	KEBOILER	49.79	47.40	27.91	30.48	32.13	32.80
SO	BUILDWID	KEBOILER	25.35	23.90	14.41	15.95	49.91	52.30
SO	BUILDWID	KEBOILER	53.14	30.60	30.00	45.19	41.92	46.56
SO	BUILDWID	KEBOILER	49.79	47.40	86.54	62.00	63.11	62.30
SO	BUILDHGT	H2ONTWR	16.80	10.70	16.80	16.80	16.80	16.80
SO	BUILDHGT	H2ONTWR	16.80	16.80	35.40	35.40	11.60	29.30
SO	BUILDHGT	H2ONTWR	29.30	29.30	16.80	16.80	16.80	16.80
SO	BUILDHGT	H2ONTWR	16.80	16.80	16.80	16.80	16.80	16.80
SO	BUILDHGT	H2ONTWR	16.80	16.80	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2ONTWR	11.60	16.80	16.80	16.80	16.80	16.80
SO	BUILDWID	H2ONTWR	158.99	26.70	160.86	161.34	156.92	147.72
SO	BUILDWID	H2ONTWR	134.04	116.29	46.20	51.78	22.81	46.56
SO	BUILDWID	H2ONTWR	49.79	52.95	141.12	152.73	159.69	161.80
SO	BUILDWID	H2ONTWR	158.99	155.50	160.86	161.34	156.92	147.72
SO	BUILDWID	H2ONTWR	134.04	116.29	21.00	21.23	22.81	23.70
SO	BUILDWID	H2ONTWR	22.96	125.23	141.12	152.73	159.69	161.80
SO	BUILDHGT	H2OETWR	11.60	11.60	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2OETWR	11.60	11.60	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2OETWR	11.60	11.60	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2OETWR	11.60	11.60	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2OETWR	11.60	11.60	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2OETWR	11.60	11.60	11.60	11.60	11.60	11.60
SO	BUILDWID	H2OETWR	37.87	37.47	38.23	37.83	36.28	33.62
SO	BUILDWID	H2OETWR	29.94	25.36	20.00	14.04	11.15	17.32
SO	BUILDWID	H2OETWR	22.96	23.32	22.06	35.12	37.17	38.10
SO	BUILDWID	H2OETWR	37.87	37.47	38.23	37.83	36.28	33.62
SO	BUILDWID	H2OETWR	29.94	25.36	20.00	14.04	11.15	17.32
SO	BUILDWID	H2OETWR	22.96	27.90	32.00	35.12	37.17	38.10
SO	BUILDHGT	H2OWTWR	10.70	10.70	10.70	10.70	10.70	10.70
SO	BUILDHGT	H2OWTWR	11.60	11.60	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2OWTWR	11.60	10.70	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2OWTWR	11.60	10.70	10.70	10.70	10.70	10.70
SO	BUILDHGT	H2OWTWR	11.60	11.60	11.60	11.60	11.60	11.60
SO	BUILDHGT	H2OWTWR	11.60	10.70	11.60	11.60	10.70	10.70
SO	BUILDWID	H2OWTWR	26.66	26.70	28.12	28.68	28.37	27.20
SO	BUILDWID	H2OWTWR	29.94	25.36	20.00	14.04	11.15	17.32
SO	BUILDWID	H2OWTWR	22.96	23.07	22.06	20.12	17.58	14.50
SO	BUILDWID	H2OWTWR	10.98	26.70	28.12	28.68	28.37	27.20
SO	BUILDWID	H2OWTWR	29.94	25.36	20.00	14.04	11.15	17.32
SO	BUILDWID	H2OWTWR	22.96	23.07	22.06	20.12	27.70	27.60
SO	BUILDHGT	AMMONIA1	.00	35.40	35.40	35.40	35.40	35.40
SO	BUILDHGT	AMMONIA1	35.40	24.40	24.40	.00	.00	.00
SO	BUILDHGT	AMMONIA1	.00	.00	.00	.00	.00	.00

SO	BUILDHGT	AMMONIA1	.00	35.40	35.40	35.40	35.40	35.40
SO	BUILDHGT	AMMONIA1	35.40	24.40	24.40	22.90	22.90	22.90
SO	BUILDHGT	AMMONIA1	22.90	.00	.00	.00	.00	.00
SO	BUILDWID	AMMONIA1	.00	57.35	58.45	57.78	55.35	51.24
SO	BUILDWID	AMMONIA1	45.57	94.07	93.00	.00	.00	.00
SO	BUILDWID	AMMONIA1	.00	.00	.00	.00	.00	.00
SO	BUILDWID	AMMONIA1	.00	57.35	58.45	57.78	55.35	51.24
SO	BUILDWID	AMMONIA1	45.57	59.89	60.00	24.98	25.07	25.99
SO	BUILDWID	AMMONIA1	26.11	.00	.00	.00	.00	.00
SO	BUILDHGT	AMMONIA2	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	AMMONIA2	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	AMMONIA2	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	AMMONIA2	.00	35.40	35.40	35.40	35.40	24.40
SO	BUILDHGT	AMMONIA2	24.40	22.90	22.90	.00	.00	.00
SO	BUILDHGT	AMMONIA2	.00	.00	.00	.00	.00	.00
SO	BUILDWID	AMMONIA2	.00	.00	.00	.00	.00	.00
SO	BUILDWID	AMMONIA2	.00	.00	.00	.00	.00	.00
SO	BUILDWID	AMMONIA2	.00	.00	.00	.00	.00	.00
SO	BUILDWID	AMMONIA2	.00	57.35	58.45	57.78	55.35	56.37
SO	BUILDWID	AMMONIA2	57.95	26.23	26.00	.00	.00	.00
SO	BUILDWID	AMMONIA2	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	AMMFLARE	24.40	24.40	24.40	.00	.00	.00
SO	BUILDHGT	AMMFLARE	.00	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	AMMFLARE	22.90	35.40	35.40	35.40	35.40	35.40
SO	BUILDHGT	AMMFLARE	35.40	24.40	24.40	.00	.00	.00
SO	BUILDHGT	AMMFLARE	.00	22.90	22.90	22.90	22.90	22.90
SO	BUILDHGT	AMMFLARE	22.90	22.90	24.40	24.40	24.40	24.40
SO	BUILDWID	AMMFLARE	57.80	55.81	58.64	.00	.00	.00
SO	BUILDWID	AMMFLARE	.00	26.23	26.00	24.98	25.07	25.99
SO	BUILDWID	AMMFLARE	26.11	54.22	59.00	62.00	63.11	62.30
SO	BUILDWID	AMMFLARE	76.49	55.81	58.64	.00	.00	.00
SO	BUILDWID	AMMFLARE	.00	26.23	26.00	24.98	25.07	25.99
SO	BUILDWID	AMMFLARE	26.11	25.45	86.54	57.19	59.19	59.40
SO	BUILDHGT	3SULFURS	16.20	16.20	16.20	16.20	16.20	24.40
SO	BUILDHGT	3SULFURS	24.40	24.40	24.40	24.40	24.40	16.20
SO	BUILDHGT	3SULFURS	16.20	16.20	16.20	16.20	16.20	16.20
SO	BUILDHGT	3SULFURS	16.20	16.20	16.20	16.20	16.20	24.40
SO	BUILDHGT	3SULFURS	24.40	24.40	24.40	24.40	24.40	16.20
SO	BUILDHGT	3SULFURS	16.20	16.20	16.20	16.20	16.20	16.20
SO	BUILDWID	3SULFURS	172.93	170.33	173.06	170.52	162.81	19.90
SO	BUILDWID	3SULFURS	20.21	19.91	19.00	17.51	15.84	71.58
SO	BUILDWID	3SULFURS	97.92	121.29	140.98	156.38	167.03	172.60
SO	BUILDWID	3SULFURS	172.93	170.33	173.06	170.52	162.81	19.90
SO	BUILDWID	3SULFURS	20.21	19.91	19.00	17.51	15.84	71.58
SO	BUILDWID	3SULFURS	97.92	121.29	140.98	156.38	167.03	172.60
SO	BUILDHGT	4SULFURS	21.30	21.30	21.30	21.30	21.30	21.30
SO	BUILDHGT	4SULFURS	21.30	21.30	21.30	21.30	21.30	21.30
SO	BUILDHGT	4SULFURS	21.30	21.30	21.30	21.30	21.30	21.30
SO	BUILDHGT	4SULFURS	21.30	21.30	21.30	21.30	21.30	21.30
SO	BUILDHGT	4SULFURS	21.30	21.30	21.30	21.30	21.30	21.30
SO	BUILDHGT	4SULFURS	21.30	21.30	21.30	21.30	21.30	21.30
SO	BUILDWID	4SULFURS	65.69	63.24	64.94	64.66	62.42	58.28

SO	BUILDWID	4SULFURS	52.37	45.81	41.00	34.94	35.82	25.21
SO	BUILDWID	4SULFURS	28.94	31.78	33.67	69.29	70.21	69.00
SO	BUILDWID	4SULFURS	65.69	63.24	64.94	64.66	62.42	58.28
SO	BUILDWID	4SULFURS	52.37	45.81	41.00	34.94	35.82	45.76
SO	BUILDWID	4SULFURS	54.31	61.21	66.26	69.29	70.21	69.00
SO	BUILDHGT	NITRICAS	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	NITRICAS	.00	.00	.00	.00	16.80	16.80
SO	BUILDHGT	NITRICAS	16.80	16.80	29.60	29.60	21.30	21.30
SO	BUILDHGT	NITRICAS	.00	.00	.00	.00	35.40	35.40
SO	BUILDHGT	NITRICAS	35.40	24.40	24.40	.00	.00	.00
SO	BUILDHGT	NITRICAS	.00	.00	.00	.00	.00	.00
SO	BUILDWID	NITRICAS	.00	.00	.00	.00	.00	.00
SO	BUILDWID	NITRICAS	.00	.00	.00	.00	47.86	48.14
SO	BUILDWID	NITRICAS	46.95	45.03	20.80	20.97	47.81	45.20
SO	BUILDWID	NITRICAS	.00	.00	.00	.00	55.35	51.24
SO	BUILDWID	NITRICAS	45.57	94.07	93.00	.00	.00	.00
SO	BUILDWID	NITRICAS	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	SPA	23.50	16.20	16.20	16.20	16.20	16.20
SO	BUILDHGT	SPA	16.20	16.20	16.20	16.20	16.20	18.30
SO	BUILDHGT	SPA	18.30	23.50	23.50	23.50	23.50	23.50
SO	BUILDHGT	SPA	23.50	16.20	16.20	16.20	16.20	16.20
SO	BUILDHGT	SPA	16.20	16.20	16.20	16.20	16.20	13.70
SO	BUILDHGT	SPA	13.70	23.50	23.50	23.50	23.50	23.50
SO	BUILDWID	SPA	19.96	170.33	173.06	170.52	162.81	150.14
SO	BUILDWID	SPA	132.92	111.66	87.00	59.70	67.00	18.76
SO	BUILDWID	SPA	21.69	37.30	35.82	33.26	29.68	25.20
SO	BUILDWID	SPA	19.95	170.33	173.06	170.52	162.81	150.14
SO	BUILDWID	SPA	132.92	111.66	87.00	59.70	67.00	13.59
SO	BUILDWID	SPA	14.35	37.30	35.82	33.26	29.68	25.20
SO	BUILDHGT	UAN32	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	UAN32	.00	.00	.00	.00	.00	16.80
SO	BUILDHGT	UAN32	16.80	16.80	16.80	16.80	.00	.00
SO	BUILDHGT	UAN32	.00	.00	.00	35.40	35.40	35.40
SO	BUILDHGT	UAN32	35.40	24.40	.00	.00	.00	.00
SO	BUILDHGT	UAN32	.00	.00	.00	.00	.00	.00
SO	BUILDWID	UAN32	.00	.00	.00	.00	.00	.00
SO	BUILDWID	UAN32	.00	.00	.00	.00	.00	48.14
SO	BUILDWID	UAN32	46.95	45.03	47.51	48.54	.00	.00
SO	BUILDWID	UAN32	.00	.00	.00	57.78	55.35	51.24
SO	BUILDWID	UAN32	45.57	94.07	.00	.00	.00	.00
SO	BUILDWID	UAN32	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	TANKFARM	35.40	35.40	35.40	35.40	35.40	30.50
SO	BUILDHGT	TANKFARM	30.50	30.50	30.50	29.30	29.30	29.30
SO	BUILDHGT	TANKFARM	29.30	29.30	29.30	29.30	29.30	29.30
SO	BUILDHGT	TANKFARM	29.30	29.30	29.30	29.30	29.30	30.50
SO	BUILDHGT	TANKFARM	30.50	30.50	30.50	29.30	29.30	29.30
SO	BUILDHGT	TANKFARM	29.30	29.30	29.30	29.30	29.30	29.30
SO	BUILDWID	TANKFARM	76.49	57.35	58.45	57.78	55.35	29.03
SO	BUILDWID	TANKFARM	30.28	30.60	30.00	45.19	41.92	46.56
SO	BUILDWID	TANKFARM	49.79	52.95	56.24	57.81	57.63	55.70
SO	BUILDWID	TANKFARM	54.63	56.78	61.94	65.22	66.51	29.03
SO	BUILDWID	TANKFARM	30.28	30.60	30.00	45.19	41.92	46.56

SO	BUILDWID	TANKFARM	49.79	52.95	56.24	57.81	57.63	55.70
SO	BUILDHGT	CALC1	29.30	35.40	35.40	35.40	35.40	35.40
SO	BUILDHGT	CALC1	35.40	35.40	.00	19.80	25.90	25.90
SO	BUILDHGT	CALC1	29.30	29.30	29.30	29.30	29.30	29.30
SO	BUILDHGT	CALC1	29.30	35.40	35.40	35.40	35.40	35.40
SO	BUILDHGT	CALC1	35.40	35.40	.00	19.80	25.90	25.90
SO	BUILDHGT	CALC1	29.30	29.30	29.30	29.30	29.30	29.30
SO	BUILDWID	CALC1	54.63	70.07	58.45	57.78	55.35	51.24
SO	BUILDWID	CALC1	45.57	39.68	.00	61.08	57.37	45.14
SO	BUILDWID	CALC1	49.79	52.95	56.24	57.81	57.63	55.70
SO	BUILDWID	CALC1	54.63	70.07	64.76	57.78	55.35	51.24
SO	BUILDWID	CALC1	45.57	39.68	.00	61.08	57.37	45.14
SO	BUILDWID	CALC1	49.79	52.95	56.24	57.81	57.63	55.70

Appendix AG-2

FMC Output

This appendix contains the building downwash analysis from BPIP for FMC sources. The input contains most of FMC's large and tall buildings and all the point sources. The output was placed into the II2 model input file.

```
'BPIP DOWNWASH FILE CONVERTED FROM BREEZWAKE FILE fmcbei.bld TEST'
'ST'
'METERS' 1.00
'UTMY',  0.0
 57
'BLDG   1'  1  1356.  North Shale pile
 4     12.192
 374559.00 4751535.80
 374549.40 4751577.80
 375014.20 4751684.20
 375024.20 4751644.20
'BLDG   2'  1  1356.  South Shale pile
 4     12.192
 374571.70 4751480.20
 374562.10 4751522.30
 375027.00 4751629.20
 375036.70 4751587.20
'BLDG   3'  1  1356.  East BH Tower
 4     21.550
 374472.80 4751559.60
 374469.80 4751569.00
 374479.30 4751571.90
 374482.20 4751562.50
'BLDG   4'  1  1356.  Middle BH Tower
 8     25.160
 374517.40 4751571.70
 374515.90 4751576.40
 374512.50 4751575.40
 374511.20 4751579.40
 374514.60 4751580.50
 374513.40 4751584.30
 374524.20 4751587.60
 374528.11 4751575.00
'BLDG   5'  1  1356.  West BH Tower
 8     11.060
 374593.50 4751597.70
 374592.60 4751600.60
 374591.10 4751600.20
 374589.70 4751604.80
 374591.20 4751605.20
 374591.40 4751604.40
 374603.60 4751608.20
 374605.70 4751601.40
'BLDG   6'  1  1356.  Crushed shale pile
 8     13.180
 374483.00 4751554.15
 374489.47 4751551.47
 374492.15 4751545.00
 374489.47 4751538.53
 374483.00 4751535.85
 374476.53 4751538.53
 374473.85 4751545.00
 374476.53 4751551.47
'BLDG   7'  1  1356.  Briquette bldg.
12     24.170
 374468.90 4751348.70
 374458.20 4751382.80
 374468.10 4751385.90
 374466.60 4751390.60
 374475.20 4751393.30
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 374489.10 4751397.70
 374486.30 4751406.40
 374498.30 4751410.20
 374510.60 4751371.30
 374498.50 4751367.60
 374501.20 4751359.20
 374487.40 4751354.50
'BLDG   8'  1  1356.  Kiln bldg.
 9      18.910
 374536.20 4751385.60
 374531.90 4751399.60
 374527.50 4751413.60
 374584.30 4751431.10
 374588.90 4751417.50
 374593.30 4751403.50
 374597.40 4751390.20
 374563.50 4751379.60
 374559.40 4751392.90
'BLDG   9'  1  1356.  Water Treatment
 6      21.660
 374586.30 4751339.10
 374580.70 4751357.20
 374589.90 4751360.10
 374590.80 4751357.20
 374591.20 4751357.30
 374596.10 4751341.80
'BLDG  10'  1  1356.  #1 Calciner
 4       9.150
 374499.40 4751337.40
 374495.60 4751349.80
 374539.60 4751363.40
 374543.50 4751351.10
'BLDG  11'  1  1356.  #1 Cooler
 6       6.100
 374539.60 4751363.40
 374574.90 4751374.50
 374577.90 4751365.00
 374548.60 4751355.80
 374549.90 4751351.50
 374543.90 4751349.80
'BLDG  12'  1  1356.  #2 Calciner
 4       9.150
 374512.00 4751293.30
 374509.10 4751302.90
 374554.20 4751317.00
 374557.20 4751307.30
'BLDG  13'  1  1356.  #2 Cooler
 4       6.150
 374554.60 4751315.70
 374589.10 4751326.30
 374592.10 4751316.70
 374557.60 4751306.10
'BLDG  14'  1  1356.  2nd Condenser
 4      20.920
 374505.00 4751398.00
 374501.00 4751408.00
 374517.00 4751413.00
 374520.00 4751400.50
'BLDG  15'  1  1356.  Cooling Tower
 4       9.380
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 374593.10 4751275.20
 374587.60 4751293.40
 374621.10 4751303.60
 374626.60 4751285.40
'BLDG  16'  1  1356.  Nodule Stockpiles
 8     15.250
 374680.00 4751435.06
 374693.48 4751429.48
 374699.06 4751416.00
 374693.48 4751402.52
 374680.00 4751396.94
 374666.52 4751402.52
 374660.94 4751416.00
 374666.52 4751429.48
'BLDG  17'  1  1356.  Fines Stockpile
 8     15.250
 374810.00 4751384.25
 374820.78 4751379.78
 374825.25 4751369.00
 374820.78 4751358.22
 374810.00 4751353.75
 374799.22 4751358.22
 374794.75 4751369.00
 374799.22 4751379.78
'BLDG  18'  1  1356.  C-5 Transfer
 4     29.590
 374454.10 4751501.40
 374452.10 4751507.90
 374458.40 4751509.90
 374460.50 4751503.40
'BLDG  19'  1  1356.  Dust Silo
 8     28.260
 374488.40 4751434.45
 374494.87 4751431.77
 374497.55 4751425.30
 374494.87 4751418.83
 374488.40 4751416.15
 374481.93 4751418.83
 374479.25 4751425.30
 374481.93 4751431.77
'BLDG  20'  1  1356.  Prop bldg.
 4     24.720
 374541.00 4751427.20
 374536.80 4751440.50
 374573.00 4751452.40
 374577.40 4751438.60
'BLDG  21'  1  1356.  Boiler House
 6      7.170
 374443.80 4751452.90
 374435.70 4751477.20
 374429.50 4751475.30
 374427.40 4751481.90
 374443.80 4751487.00
 374453.60 4751456.00
'BLDG  22'  1  1356.  Furnace Bldg.
22     34.160
 374334.00 4751358.60
 374331.70 4751366.00
 374328.20 4751377.70
 374325.20 4751387.50
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 374352.80 4751396.10
 374353.30 4751394.60
 374362.00 4751397.40
 374363.30 4751393.00
 374398.30 4751403.90
 374396.90 4751408.30
 374434.80 4751420.10
 374436.40 4751415.00
 374453.80 4751420.40
 374454.80 4751417.20
 374458.40 4751405.60
 374460.70 4751398.20
 374410.80 4751382.60
 374408.50 4751390.00
 374405.30 4751401.80
 374372.40 4751391.50
 374375.90 4751379.80
 374378.20 4751372.40
'BLDG  23'  1  1356.  Maintenance & Stores
10      7.600
 374360.00 4751426.50
 374345.00 4751473.80
 374352.90 4751476.30
 374347.00 4751494.70
 374358.60 4751498.40
 374364.40 4751479.80
 374372.10 4751482.20
 374383.20 4751447.30
 374391.90 4751450.00
 374395.80 4751437.70
'BLDG  24'  1  1356.  Phos Dock
 5      6.400
 374404.50 4751449.70
 374403.30 4751453.60
 374426.40 4751461.40
 374431.50 4751463.10
 374432.90 4751458.60
'BLDG  25'  1  1356.  Calc. Control Bldg.
 4      8.340
 374507.20 4751321.60
 374502.20 4751337.60
 374511.00 4751340.20
 374516.00 4751324.40
'BLDG  26'  1  1356.  Yard Substation 1
 4      4.270
 374447.40 4751475.60
 374443.80 4751487.00
 374449.20 4751488.70
 374452.80 4751477.30
'BLDG  27'  1  1356.  Phos Offices
 8      4.640
 374324.40 4751415.40
 374315.80 4751442.30
 374333.90 4751447.90
 374336.90 4751438.70
 374333.90 4751437.80
 374335.70 4751431.90
 374330.40 4751430.20
 374334.10 4751418.40
'BLDG  28'  1  1356.  Burden/data process
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14       5.200
 374308.90 4751443.60
 374302.80 4751463.10
 374309.00 4751465.10
 374310.40 4751460.60
 374319.50 4751463.50
 374319.20 4751464.60
 374322.20 4751465.60
 374322.60 4751464.40
 374332.00 4751467.40
 374335.00 4751457.90
 374321.30 4751453.60
 374322.60 4751449.50
 374314.70 4751447.00
 374315.20 4751445.60
'BLDG  29'  1  1356.  Standpipe (h2otower)
 8      35.500
 374494.60 4751331.25
 374496.76 4751330.36
 374497.65 4751328.20
 374496.76 4751326.04
 374494.60 4751325.15
 374492.44 4751326.04
 374491.55 4751328.20
 374492.44 4751330.36
'BLDG  30'  1  1356.  Change House
 8       5.486
 374262.20 4751437.40
 374252.90 4751466.90
 374283.00 4751476.30
 374284.00 4751473.00
 374279.30 4751471.50
 374285.30 4751452.40
 374270.60 4751447.80
 374272.80 4751440.60
'BLDG  31'  1  1356.  Maintenance&PaintSho
 4       6.096
 374395.70 4751515.10
 374392.60 4751524.20
 374404.80 4751528.00
 374407.60 4751518.80
'BLDG  32'  1  1356.  Long Term P4 Storage
 4       6.400
 374098.20 4751382.20
 374100.50 4751387.90
 374107.90 4751384.80
 374105.00 4751379.20
'BLDG  33'  1  1356.  Cooling Tower Substa
 4       4.877
 374637.70 4751288.10
 374635.40 4751295.30
 374644.10 4751297.90
 374646.30 4751290.70
'BLDG  34'  1  1356.  Shale Substation
 4       3.962
 374441.90 4751533.70
 374441.00 4751536.70
 374443.30 4751537.40
 374444.20 4751534.50
'BLDG  35'  1  1356.  ShaleOffices&lunchro
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12       3.962
 374438.30 4751539.60
 374435.50 4751548.50
 374447.10 4751552.20
 374448.50 4751547.90
 374448.20 4751547.80
 374449.00 4751545.00
 374452.00 4751545.90
 374453.90 4751539.60
 374449.10 4751538.10
 374448.70 4751539.40
 374444.60 4751538.10
 374443.60 4751541.30
'BLDG  36'  1  1356.  Administration bldg
 4      11.278
 374228.30 4751401.30
 374220.30 4751427.00
 374259.80 4751439.30
 374267.80 4751413.70
'BLDG  37'  1  1356.  Main Lunch Room
 4       4.267
 374274.40 4751424.20
 374270.40 4751436.50
 374287.20 4751441.80
 374290.90 4751429.40
'BLDG  38'  1  1356.  Lab & Process Bldg
 4       6.096
 374281.10 4751397.40
 374274.70 4751417.90
 374292.80 4751423.70
 374299.30 4751403.20
'BLDG  39'  1  1356.  Mining Lab
 4       5.486
 374263.30 4751391.90
 374259.00 4751405.90
 374276.80 4751411.40
 374281.10 4751397.50
'BLDG  40'  1  1356.  West End Substation
 4       4.877
 374186.10 4751294.00
 374183.10 4751303.50
 374194.80 4751307.20
 374197.80 4751297.70
'BLDG  41'  1  1356.  New Calc. Substation
 4       5.944
 374509.90 4751249.30
 374505.30 4751264.00
 374514.50 4751266.90
 374519.20 4751252.20
'BLDG  42'  1  1356.  RP&S
 4       5.486
 374214.20 4751051.80
 374205.30 4751081.10
 374221.30 4751086.40
 374230.50 4751056.90
'BLDG  43'  1  1356.  Lube Shop
 6       6.553
 374255.40 4751239.70
 374251.70 4751251.60
 374264.10 4751255.50
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 374266.00 4751249.40
 374265.60 4751249.30
 374267.40 4751243.50
'BLDG  44'  1  1356.  Mobile Repair
 6     11.278
 374245.50 4751249.70
 374239.60 4751268.50
 374263.70 4751276.10
 374266.90 4751265.90
 374261.30 4751264.20
 374263.90 4751256.10
'BLDG  45'  1  1356.  Yard 3 Storage
 4      6.944
 374141.50 4751028.50
 374138.30 4751039.60
 374156.90 4751044.80
 374160.00 4751044.70
'BLDG  46'  1  1356.  Fire Pumphouse
 4      3.505
 374480.70 4751326.50
 374478.10 4751334.60
 374486.10 4751337.20
 374488.60 4751329.00
'BLDG  47'  1  1356.  Trans Storage Bldg 1
 4      5.182
 374259.60 4751355.20
 374259.40 4751360.70
 374270.20 4751360.90
 374270.30 4751355.30
'BLDG  48'  1  1356.  Trans Storage Bldg 2
 4      4.115
 374240.90 4751355.70
 374241.30 4751362.20
 374251.20 4751361.50
 374250.80 4751355.10
'BLDG  49'  1  1356.  Trans Storage Bldg 3
 4      6.400
 374220.20 4751358.70
 374221.40 4751365.70
 374228.70 4751364.50
 374227.50 4751357.50
'BLDG  50'  1  1356.  Foreman/Women Change
 4      5.639
 374350.30 4751426.80
 374346.20 4751439.80
 374354.80 4751442.50
 374359.00 4751429.60
'BLDG  51'  1  1356.  Rehab Trailer
 4      3.810
 374341.30 4751424.90
 374335.60 4751442.90
 374343.20 4751445.20
 374348.90 4751427.20
'BLDG  52'  1  1356.  MERG Bldg
 4      3.353
 374285.30 4751452.40
 374279.30 4751471.50
 374284.00 4751473.00
 374290.00 4751453.80
'BLDG  53'  1  1356.  Ozone Generator Bldg
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 4       3.048
 374598.80 4751297.40
 374597.60 4751301.50
 374601.10 4751302.60
 374602.40 4751298.50
'BLDG  54'  1  1356.  Pump House @ Cool Tw
 4       3.658
 374613.60 4751307.10
 374612.00 4751312.20
 374617.70 4751313.90
 374619.20 4751308.80
'BLDG  55'  1  1356.  Screen House
 4      14.630
 374482.00 4751420.60
 374480.00 4751426.50
 374488.50 4751429.30
 374490.50 4751423.50
'BLDG  56'  1  1356.  Calc Discharg BH
 4      18.180
 374627.00 4751365.30
 374623.40 4751376.30
 374637.70 4751380.90
 374641.20 4751369.80
'BLDG  57'  1  1356.  Conveyor B-9
 4      28.969
 374490.60 4751517.60
 374477.10 4751560.90
 374480.70 4751561.90
 374494.20 4751518.70
37
'ESHALEBH' 1356  4.0 374603.1 4751600.0
'MSHALEBH' 1356  5.5 374525.8 4751573.7
'WSHALEBH' 1356 11.3 374479.0 4751560.9
'CS1_1'    1356 27.4 374576.7 4751344.3
'CS1_2'    1356 27.4 374569.3 4751334.9
'CS2_1'    1356 27.4 374579.9 4751284.3
'CS2_2'    1356 27.4 374537.8 4751275.6
'CV1_1'    1356 12.8 374561.4 4751353.7
'CV1_2'    1356 12.8 374560.0 4751353.3
'CV2_1'    1356 12.5 374581.8 4751302.4
'CV2_2'    1356 12.5 374572.5 4751299.6
'DISCSBH'  1356  6.4 374625.7 4751366.8
'DISCNBH'  1356  6.4 374623.4 4751374.3
'ENODULEB' 1356 12.8 374558.4 4751452.5
'WNODULEB' 1356 12.8 374535.8 4751448.2
'STOCKPIL' 1356  3.5 374610.9 4751430.1
'DUSTSILO' 1356 20.9 374448.4 4751425.3
'EBURDEN'  1356 34.1 374397.0 4751385.7
'WBURDEN'  1356 34.1 374380.7 4751380.6
'COKEBAGH' 1356 12.8 374545.0 4751454.8
'PHOSDOCK' 1356 15.2 374400.2 4751467.6
'BOILER3'  1356  9.8 374443.0 4751473.5
'BOILER4'  1356  9.8 374439.7 4751484.3
'TAPHOOD1' 1390  0.0 374419.9 4751410.9
'TAPHOOD2' 1390  0.0 374420.9 4751409.6
'TAPHOOD3' 1390  0.0 374355.1 4751390.9
'TAPHOOD4' 1390  0.0 374356.8 4751389.4
'FUR1PRV'  1390  6.8 374424.3 4751408.7
'FUR2PRV'  1390  6.8 374421.6 4751407.9
'FUR3PRV'  1390  6.8 374360.3 4751388.9
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'FUR4PRV'   1390   6.8 374357.7 4751387.9
'FUR1COF'   1390   4.7 374444.8 4751416.2
'FUR2COF'   1390   4.7 374391.3 4751398.1
'FUR3COF'   1390   4.7 374390.9 4751397.9
'FUR4COF'   1390   4.7 374336.9 4751382.2
'SECFLARE' 1377  15.7 374498.7 4751401.8
'COFLARE'   1356   4.0 374639.6 4751323.6
0
```

BPIP (Dated: 95039)

DATE : 3/ 8/95
TIME : 9:43:49
BPIP DOWNWASH FILE CONVERTED FROM BREEZWAKE FILE fmcbei.bld TEST

==========
BPIP PROCESSING INFORMATION:
==========

The ST flag has been set for processing for an ISCST2 run.

Inputs entered in METERS will be converted to meters using a conversion factor of 1.0000. Output will be in meters.

The UTMP variable is set to UTMY. The input is assumed to be in UTM coordinates. BPIP will move the UTM origin to the first pair of UTM coordinates read. The UTM coordinates of the new origin will be subtracted from all the other UTM coordinates entered to form this new local coordinate system.

Plant north is set to .00 degrees with respect to True North.

BPIP DOWNWASH FILE CONVERTED FROM BREEZWAKE FILE fmcbei.bld TEST

PRELIMINARY* GEP STACK HEIGHT RESULTS TABLE
(Output Units: meters)

Stack Name	Stack Height	Stack-Building Base Elevation Differences	GEP** EQN1	Preliminary* GEP Stack Height Value
ESHALEBH	4.00	.00	72.42	72.42
MSHALEBH	5.50	.00	85.40	85.40
WSHALEBH	11.30	.00	85.40	85.40
CS1_1	27.40	.00	85.40	85.40
CS1_2	27.40	.00	85.40	85.40
CS2_1	27.40	.00	85.40	85.40
CS2_2	27.40	.00	85.40	85.40
CV1_1	12.80	.00	85.40	85.40
CV1_2	12.80	.00	85.40	85.40
CV2_1	12.50	.00	85.40	85.40
CV2_2	12.50	.00	85.40	85.40
DISCSBH	6.40	.00	85.40	85.40
DISCNBH	6.40	.00	85.40	85.40
ENODULEB	12.80	.00	85.40	85.40
WNODULEB	12.80	.00	85.40	85.40
STOCKPIL	3.50	.00	85.40	85.40
DUSTSILO	20.90	.00	85.40	85.40
EBURDEN	34.10	.00	85.40	85.40
WBURDEN	34.10	.00	85.40	85.40
COKEBAGH	12.80	.00	85.40	85.40
PHOSDOCK	15.20	.00	85.40	85.40
BOILER3	9.80	.00	85.40	85.40
BOILER4	9.80	.00	85.40	85.40
TAPHOOD1	.00	34.00	51.40	65.00
TAPHOOD2	.00	34.00	51.40	65.00

TAPHOOD3	.00	34.00	51.40	65.00
TAPHOOD4	.00	34.00	51.40	65.00
FUR1PRV	6.80	34.00	51.40	65.00
FUR2PRV	6.80	34.00	51.40	65.00
FUR3PRV	6.80	34.00	51.40	65.00
FUR4PRV	6.80	34.00	51.40	65.00
FUR1COF	4.70	34.00	51.40	65.00
FUR2COF	4.70	34.00	51.40	65.00
FUR3COF	4.70	34.00	51.40	65.00
FUR4COF	4.70	34.00	51.40	65.00
SECFLARE	15.70	21.00	64.40	65.00
COFLARE	4.00	.00	53.41	65.00

* Results are based on Determinants 1 & 2 on pages 1 & 2 of the GEP Technical Support Document. Determinant 3 may be investigated for additional stack height credit. Final values result after Determinant 3 has been taken into consideration.

** Results were derived from Equation 1 on page 6 of GEP Technical Support Document. Values have been adjusted for any stack-building base elevation differences.

Note: Criteria for determining stack heights for modeling emission limitations for a source can be found in Table 3.1 of the GEP Technical Support Document.

BPIP (Dated: 95039)

DATE : 3/ 8/95
TIME : 9:43:49

BPIP DOWNWASH FILE CONVERTED FROM BREEZWAKE FILE fmcbei.bld TEST

BPIP output is in meters

SO	BUILDHGT	ESHALEBH	12.19	12.19	12.19	12.19	28.97	28.97
SO	BUILDHGT	ESHALEBH	28.97	12.19	12.19	12.19	12.19	12.19
SO	BUILDHGT	ESHALEBH	12.19	12.19	12.19	12.19	12.19	12.19
SO	BUILDHGT	ESHALEBH	12.19	12.19	12.19	12.19	12.19	12.19
SO	BUILDHGT	ESHALEBH	12.19	12.19	12.19	12.19	12.19	12.19
SO	BUILDHGT	ESHALEBH	12.19	12.19	12.19	12.19	12.19	12.19
SO	BUILDWID	ESHALEBH	456.06	423.46	377.99	321.04	43.32	45.10
SO	BUILDWID	ESHALEBH	45.50	67.10	148.40	225.19	295.14	356.12
SO	BUILDWID	ESHALEBH	406.28	444.09	468.41	478.50	479.12	474.80
SO	BUILDWID	ESHALEBH	456.06	423.46	377.99	321.04	254.33	179.90
SO	BUILDWID	ESHALEBH	100.00	67.10	148.40	225.19	295.14	356.12
SO	BUILDWID	ESHALEBH	406.28	444.09	468.41	478.50	479.12	474.80

SO	BUILDHGT	MSHALEBH	25.16	34.16	34.16	34.16	34.16	28.97
SO	BUILDHGT	MSHALEBH	28.97	28.97	28.97	21.55	25.16	25.16
SO	BUILDHGT	MSHALEBH	25.16	25.16	25.16	25.16	25.16	25.16
SO	BUILDHGT	MSHALEBH	25.16	28.97	28.97	28.97	28.97	28.97
SO	BUILDHGT	MSHALEBH	28.97	28.97	28.97	21.55	25.16	25.16
SO	BUILDHGT	MSHALEBH	25.16	25.16	25.16	25.16	25.16	25.16
SO	BUILDWID	MSHALEBH	17.42	123.67	112.00	96.92	78.90	45.10

SO	BUILDWID	MSHALEBH	45.50	45.35	44.30	51.51	17.27	17.17
SO	BUILDWID	MSHALEBH	16.87	16.80	16.23	15.17	15.89	16.91
SO	BUILDWID	MSHALEBH	17.42	30.50	35.91	40.23	43.32	45.10
SO	BUILDWID	MSHALEBH	45.50	45.35	44.30	51.51	17.27	17.17
SO	BUILDWID	MSHALEBH	16.87	16.80	16.23	15.17	15.89	16.91
SO	BUILDHGT	WSHALEBH	34.16	34.16	34.16	34.16	28.97	28.97
SO	BUILDHGT	WSHALEBH	28.97	28.97	28.97	28.97	28.97	28.97
SO	BUILDHGT	WSHALEBH	28.97	28.97	28.97	28.97	21.55	28.97
SO	BUILDHGT	WSHALEBH	28.97	28.97	28.97	28.97	28.97	28.97
SO	BUILDHGT	WSHALEBH	28.97	28.97	28.97	28.97	28.97	28.97
SO	BUILDHGT	WSHALEBH	28.97	28.97	28.97	28.97	28.26	28.26
SO	BUILDWID	WSHALEBH	131.58	123.67	112.00	96.92	43.32	45.10
SO	BUILDWID	WSHALEBH	45.50	45.35	44.30	41.91	38.24	33.41
SO	BUILDWID	WSHALEBH	27.57	20.89	13.58	5.85	15.29	17.10
SO	BUILDWID	WSHALEBH	24.17	30.50	35.91	40.23	43.32	45.10
SO	BUILDWID	WSHALEBH	45.50	45.35	44.30	41.91	38.24	33.41
SO	BUILDWID	WSHALEBH	27.57	20.89	13.58	5.85	176.30	172.35
SO	BUILDHGT	CS1_1	21.66	21.66	21.66	21.66	21.66	21.66
SO	BUILDHGT	CS1_1	21.66	21.66	34.16	34.16	34.16	34.16
SO	BUILDHGT	CS1_1	28.26	28.26	24.72	24.72	24.72	24.72
SO	BUILDHGT	CS1_1	21.66	21.66	21.66	21.66	21.66	21.66
SO	BUILDHGT	CS1_1	21.66	21.66	21.66	21.66	21.66	21.66
SO	BUILDHGT	CS1_1	21.66	18.91	18.91	18.91	18.91	18.91
SO	BUILDWID	CS1_1	17.84	19.74	21.04	21.70	21.70	21.04
SO	BUILDWID	CS1_1	19.74	20.06	61.80	81.66	99.05	113.42
SO	BUILDWID	CS1_1	159.46	170.27	40.31	38.69	39.65	40.60
SO	BUILDWID	CS1_1	17.84	19.74	21.04	21.70	21.70	21.04
SO	BUILDWID	CS1_1	19.74	20.06	21.00	21.31	20.96	19.99
SO	BUILDWID	CS1_1	18.40	66.09	64.41	60.76	64.77	69.90
SO	BUILDHGT	CS1_2	21.66	21.66	21.66	21.66	21.66	21.66
SO	BUILDHGT	CS1_2	21.66	21.66	21.66	34.16	34.16	34.16
SO	BUILDHGT	CS1_2	34.16	28.26	20.92	24.72	24.72	24.72
SO	BUILDHGT	CS1_2	24.72	21.66	21.66	21.66	21.66	21.66
SO	BUILDHGT	CS1_2	21.66	21.66	21.66	21.66	21.66	18.91
SO	BUILDHGT	CS1_2	18.91	18.91	18.91	9.38	18.91	18.91
SO	BUILDWID	CS1_2	17.84	19.74	21.04	21.70	21.70	21.04
SO	BUILDWID	CS1_2	19.74	20.06	21.00	81.66	99.05	113.42
SO	BUILDWID	CS1_2	124.35	170.27	73.81	38.69	39.65	40.60
SO	BUILDWID	CS1_2	40.31	19.74	21.04	21.70	21.70	21.04
SO	BUILDWID	CS1_2	19.74	20.06	21.00	21.31	20.96	129.06
SO	BUILDWID	CS1_2	85.38	66.09	64.41	36.02	138.37	139.20
SO	BUILDHGT	CS2_1	6.15	9.38	9.38	9.38	9.38	9.38
SO	BUILDHGT	CS2_1	9.38	9.38	9.38	9.38	34.16	34.16
SO	BUILDHGT	CS2_1	34.16	34.16	24.17	6.15	6.15	21.66
SO	BUILDHGT	CS2_1	21.66	21.66	9.38	9.38	9.38	9.38
SO	BUILDHGT	CS2_1	9.38	9.38	9.38	9.38	9.38	9.38
SO	BUILDHGT	CS2_1	9.38	9.38	.00	.00	.00	6.15
SO	BUILDWID	CS2_1	79.34	39.38	37.77	35.02	31.20	26.43
SO	BUILDWID	CS2_1	20.86	23.11	28.40	32.83	99.05	113.42
SO	BUILDWID	CS2_1	124.35	131.50	56.21	36.51	37.10	15.40
SO	BUILDWID	CS2_1	17.84	19.74	37.77	35.02	31.20	26.43
SO	BUILDWID	CS2_1	20.86	23.11	28.40	32.83	36.26	38.60

SO	BUILDWID	CS2_1	39.75	39.70	.00	.00	.00	83.00
SO	BUILDHGT	CS2_2	9.15	9.15	18.91	6.15	6.15	5.94
SO	BUILDHGT	CS2_2	5.94	.00	.00	.00	34.16	34.16
SO	BUILDHGT	CS2_2	34.16	34.16	34.16	24.17	24.17	18.91
SO	BUILDHGT	CS2_2	18.91	18.91	21.66	21.66	6.15	.00
SO	BUILDHGT	CS2_2	.00	.00	.00	.00	.00	9.15
SO	BUILDHGT	CS2_2	9.15	9.15	9.15	.00	.00	9.15
SO	BUILDWID	CS2_2	46.61	43.69	120.78	54.71	42.78	17.17
SO	BUILDWID	CS2_2	15.84	.00	.00	.00	99.05	113.42
SO	BUILDWID	CS2_2	124.35	131.50	134.65	48.66	49.61	139.20
SO	BUILDWID	CS2_2	135.80	128.27	21.04	21.70	42.78	.00
SO	BUILDWID	CS2_2	.00	.00	.00	.00	.00	41.62
SO	BUILDWID	CS2_2	45.28	47.56	48.40	.00	.00	48.10
SO	BUILDHGT	CV1_1	18.91	18.91	18.91	18.91	21.66	21.66
SO	BUILDHGT	CV1_1	21.66	24.17	34.16	34.16	34.16	34.16
SO	BUILDHGT	CV1_1	28.26	28.26	20.92	24.72	24.72	24.72
SO	BUILDHGT	CV1_1	24.72	18.91	18.91	18.91	21.66	21.66
SO	BUILDHGT	CV1_1	21.66	24.17	21.66	21.66	21.66	21.66
SO	BUILDHGT	CV1_1	21.66	24.17	20.92	18.91	18.91	18.91
SO	BUILDWID	CV1_1	72.90	73.69	72.24	68.59	21.70	21.04
SO	BUILDWID	CV1_1	19.74	55.46	61.80	81.66	99.05	113.42
SO	BUILDWID	CV1_1	159.46	170.27	73.81	38.69	39.65	40.60
SO	BUILDWID	CV1_1	40.31	73.69	72.24	68.59	21.70	21.04
SO	BUILDWID	CV1_1	19.74	55.46	21.00	21.31	20.96	19.99
SO	BUILDWID	CV1_1	18.40	62.05	73.81	60.76	64.77	69.90
SO	BUILDHGT	CV1_2	18.91	18.91	18.91	18.91	21.66	21.66
SO	BUILDHGT	CV1_2	21.66	24.17	34.16	34.16	34.16	34.16
SO	BUILDHGT	CV1_2	34.16	28.26	20.92	24.72	24.72	24.72
SO	BUILDHGT	CV1_2	24.72	18.91	18.91	18.91	21.66	21.66
SO	BUILDHGT	CV1_2	21.66	24.17	21.66	21.66	21.66	21.66
SO	BUILDHGT	CV1_2	21.66	24.17	20.92	18.91	18.91	18.91
SO	BUILDWID	CV1_2	72.90	73.69	72.24	68.59	21.70	21.04
SO	BUILDWID	CV1_2	19.74	55.46	61.80	81.66	99.05	113.42
SO	BUILDWID	CV1_2	124.35	170.27	73.81	38.69	39.65	40.60
SO	BUILDWID	CV1_2	40.31	73.69	72.24	68.59	21.70	21.04
SO	BUILDWID	CV1_2	19.74	55.46	21.00	21.31	20.96	19.99
SO	BUILDWID	CV1_2	18.40	62.05	73.81	60.76	64.77	69.90
SO	BUILDHGT	CV2_1	18.91	21.66	21.66	6.15	.00	.00
SO	BUILDHGT	CV2_1	.00	9.15	9.38	34.16	34.16	34.16
SO	BUILDHGT	CV2_1	34.16	24.17	24.17	18.91	18.91	18.91
SO	BUILDHGT	CV2_1	21.66	21.66	21.66	18.18	.00	.00
SO	BUILDHGT	CV2_1	.00	.00	9.38	9.38	18.91	18.91
SO	BUILDHGT	CV2_1	9.38	9.38	9.38	9.38	9.38	6.15
SO	BUILDWID	CV2_1	135.80	19.74	21.04	28.08	.00	.00
SO	BUILDWID	CV2_1	.00	16.01	28.40	81.66	99.05	113.42
SO	BUILDWID	CV2_1	124.35	62.05	64.03	60.76	64.77	69.90
SO	BUILDWID	CV2_1	17.84	19.74	21.04	17.81	.00	.00
SO	BUILDWID	CV2_1	.00	.00	28.40	32.83	116.90	129.06
SO	BUILDWID	CV2_1	39.75	39.70	38.45	36.02	37.02	37.50
SO	BUILDHGT	CV2_2	18.91	18.91	21.66	21.66	6.15	.00

SO	BUILDHGT	CV2_2	.00	9.38	9.38	34.16	34.16	34.16
SO	BUILDHGT	CV2_2	34.16	34.16	24.17	18.91	18.91	18.91
SO	BUILDHGT	CV2_2	21.66	21.66	21.66	21.66	6.15	.00
SO	BUILDHGT	CV2_2	.00	9.38	9.38	9.38	9.38	18.91
SO	BUILDHGT	CV2_2	9.38	9.38	6.15	6.15	6.15	6.15
SO	BUILDWID	CV2_2	135.80	128.27	21.04	21.70	23.34	.00
SO	BUILDWID	CV2_2	.00	23.11	28.40	81.66	99.05	113.42
SO	BUILDWID	CV2_2	124.35	131.50	56.21	60.76	64.77	69.90
SO	BUILDWID	CV2_2	17.84	19.74	21.04	21.70	23.34	.00
SO	BUILDWID	CV2_2	.00	23.11	28.40	32.83	36.26	129.06
SO	BUILDWID	CV2_2	39.75	39.70	37.38	36.51	37.10	37.50
SO	BUILDHGT	DISCSBH	18.18	18.18	18.18	21.66	21.66	21.66
SO	BUILDHGT	DISCSBH	21.66	24.17	34.16	34.16	34.16	28.26
SO	BUILDHGT	DISCSBH	24.72	24.72	24.72	18.18	18.18	18.18
SO	BUILDHGT	DISCSBH	18.18	18.18	18.18	21.66	21.66	21.66
SO	BUILDHGT	DISCSBH	21.66	21.66	21.66	18.91	18.91	18.91
SO	BUILDHGT	DISCSBH	18.91	18.91	18.91	18.18	18.18	18.18
SO	BUILDWID	DISCSBH	18.66	18.95	18.67	21.70	21.70	21.04
SO	BUILDWID	DISCSBH	19.74	55.46	61.80	81.66	99.05	143.80
SO	BUILDWID	DISCSBH	39.87	40.71	40.31	15.39	16.40	17.80
SO	BUILDWID	DISCSBH	18.66	18.95	18.67	21.70	21.70	21.04
SO	BUILDWID	DISCSBH	19.74	20.06	21.00	54.33	59.21	63.45
SO	BUILDWID	DISCSBH	65.77	66.09	64.41	15.39	16.40	17.80
SO	BUILDHGT	DISCNBH	18.18	18.18	21.66	21.66	21.66	21.66
SO	BUILDHGT	DISCNBH	21.66	24.17	34.16	34.16	34.16	24.72
SO	BUILDHGT	DISCNBH	24.72	24.72	24.72	18.18	18.18	18.18
SO	BUILDHGT	DISCNBH	18.18	18.18	21.66	21.66	21.66	21.66
SO	BUILDHGT	DISCNBH	21.66	21.66	18.91	18.91	18.91	18.91
SO	BUILDHGT	DISCNBH	18.91	18.91	18.91	18.18	18.18	18.18
SO	BUILDWID	DISCNBH	18.66	18.95	21.04	21.70	21.70	21.04
SO	BUILDWID	DISCNBH	19.74	55.46	61.80	81.66	99.05	37.82
SO	BUILDWID	DISCNBH	39.87	40.71	40.31	15.39	16.40	17.80
SO	BUILDWID	DISCNBH	18.66	18.95	21.04	21.70	21.70	21.04
SO	BUILDWID	DISCNBH	19.74	20.06	51.50	54.33	59.21	63.45
SO	BUILDWID	DISCNBH	65.77	66.09	64.41	15.39	16.40	17.80
SO	BUILDHGT	ENODULEB	24.72	24.72	24.72	24.72	24.72	34.16
SO	BUILDHGT	ENODULEB	34.16	34.16	24.72	24.72	24.72	24.72
SO	BUILDHGT	ENODULEB	28.97	24.72	24.72	24.72	24.72	24.72
SO	BUILDHGT	ENODULEB	24.72	24.72	24.72	24.72	24.72	24.72
SO	BUILDHGT	ENODULEB	24.72	24.72	24.72	24.72	24.72	24.72
SO	BUILDHGT	ENODULEB	24.72	24.72	24.72	24.72	24.72	24.72
SO	BUILDWID	ENODULEB	40.31	38.80	36.11	32.32	27.55	58.48
SO	BUILDWID	ENODULEB	36.29	43.06	25.20	30.37	34.62	37.82
SO	BUILDWID	ENODULEB	27.57	40.71	40.31	38.69	39.65	40.60
SO	BUILDWID	ENODULEB	40.31	38.80	36.11	32.32	27.55	21.95
SO	BUILDWID	ENODULEB	15.67	19.26	25.20	30.37	34.62	37.82
SO	BUILDWID	ENODULEB	39.87	40.71	40.31	38.69	39.65	40.60
SO	BUILDHGT	WNODULEB	24.72	24.72	24.72	28.26	34.16	34.16
SO	BUILDHGT	WNODULEB	34.16	34.16	28.26	24.72	24.72	24.72
SO	BUILDHGT	WNODULEB	24.72	24.72	24.72	24.72	24.72	24.72
SO	BUILDHGT	WNODULEB	24.72	24.72	24.72	28.26	28.26	28.26
SO	BUILDHGT	WNODULEB	28.26	28.26	28.26	24.72	24.72	24.72

SO	BUILDHGT	WNODULEB	24.72	24.72	24.72	24.72	24.72	24.72
SO	BUILDWID	WNODULEB	40.31	38.80	36.11	109.84	78.90	58.48
SO	BUILDWID	WNODULEB	36.29	43.06	75.85	30.37	34.62	37.82
SO	BUILDWID	WNODULEB	39.87	40.71	40.31	38.69	39.65	40.60
SO	BUILDWID	WNODULEB	40.31	38.80	36.11	109.84	85.06	58.48
SO	BUILDWID	WNODULEB	36.29	47.89	75.85	30.37	34.62	37.82
SO	BUILDWID	WNODULEB	39.87	40.71	40.31	38.69	39.65	40.60
SO	BUILDHGT	STOCKPIL	21.66	21.66	21.66	18.91	18.91	24.17
SO	BUILDHGT	STOCKPIL	24.17	34.16	34.16	24.72	24.72	24.72
SO	BUILDHGT	STOCKPIL	24.72	12.19	12.19	12.19	12.19	12.19
SO	BUILDHGT	STOCKPIL	18.91	18.91	18.91	18.91	18.91	18.91
SO	BUILDHGT	STOCKPIL	18.91	24.72	24.72	24.72	24.72	24.72
SO	BUILDHGT	STOCKPIL	24.72	12.19	18.18	18.18	18.18	.00
SO	BUILDWID	STOCKPIL	17.84	19.74	21.04	68.59	62.86	48.33
SO	BUILDWID	STOCKPIL	49.45	43.06	61.80	30.37	34.62	37.82
SO	BUILDWID	STOCKPIL	39.87	444.56	468.80	478.80	478.66	474.60
SO	BUILDWID	STOCKPIL	72.90	73.69	72.24	68.59	62.86	55.21
SO	BUILDWID	STOCKPIL	45.90	19.26	25.20	30.37	34.62	37.82
SO	BUILDWID	STOCKPIL	39.87	444.56	17.07	15.39	16.40	.00
SO	BUILDHGT	DUSTSILO	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	DUSTSILO	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	DUSTSILO	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	DUSTSILO	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	DUSTSILO	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	DUSTSILO	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	DUSTSILO	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	DUSTSILO	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	DUSTSILO	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	DUSTSILO	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	DUSTSILO	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	DUSTSILO	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	EBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	EBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	EBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	EBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	EBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	EBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	EBURDEN	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	EBURDEN	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	EBURDEN	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	EBURDEN	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	EBURDEN	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	EBURDEN	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	WBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	WBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	WBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	WBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	WBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	WBURDEN	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	WBURDEN	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	WBURDEN	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	WBURDEN	124.35	131.50	134.65	133.71	135.30	135.50

SO	BUILDWID	WBURDEN	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	WBURDEN	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	WBURDEN	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	COKEBAGH	24.72	24.72	24.72	24.72	34.16	34.16
SO	BUILDHGT	COKEBAGH	34.16	34.16	24.72	24.72	24.72	24.72
SO	BUILDHGT	COKEBAGH	28.97	24.72	24.72	24.72	24.72	24.72
SO	BUILDHGT	COKEBAGH	24.72	24.72	24.72	24.72	28.26	28.26
SO	BUILDHGT	COKEBAGH	28.26	28.26	24.72	24.72	24.72	24.72
SO	BUILDHGT	COKEBAGH	24.72	24.72	24.72	24.72	24.72	24.72
SO	BUILDWID	COKEBAGH	40.31	38.80	36.11	32.32	78.90	58.48
SO	BUILDWID	COKEBAGH	36.29	43.06	25.20	30.37	34.62	37.82
SO	BUILDWID	COKEBAGH	27.57	40.71	40.31	38.69	39.65	40.60
SO	BUILDWID	COKEBAGH	40.31	38.80	36.11	32.32	85.06	58.48
SO	BUILDWID	COKEBAGH	36.29	47.89	25.20	30.37	34.62	37.82
SO	BUILDWID	COKEBAGH	39.87	40.71	40.31	38.69	39.65	40.60
SO	BUILDHGT	PHOSDOCK	34.16	34.16	34.16	34.16	34.16	7.60
SO	BUILDHGT	PHOSDOCK	7.60	7.60	7.60	7.60	28.26	34.16
SO	BUILDHGT	PHOSDOCK	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	PHOSDOCK	34.16	34.16	34.16	34.16	34.16	28.97
SO	BUILDHGT	PHOSDOCK	7.60	7.60	7.60	18.91	28.26	34.16
SO	BUILDHGT	PHOSDOCK	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	PHOSDOCK	131.58	123.67	112.00	96.92	78.90	73.76
SO	BUILDWID	PHOSDOCK	70.25	71.05	71.90	70.56	124.08	113.42
SO	BUILDWID	PHOSDOCK	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	PHOSDOCK	131.58	123.67	112.00	96.92	78.90	45.10
SO	BUILDWID	PHOSDOCK	70.25	71.05	71.90	101.19	124.08	113.42
SO	BUILDWID	PHOSDOCK	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	BOILER3	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	BOILER3	7.17	7.17	7.17	7.17	7.17	28.26
SO	BUILDHGT	BOILER3	28.26	28.26	28.26	34.16	34.16	34.16
SO	BUILDHGT	BOILER3	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	BOILER3	7.17	7.17	7.17	24.72	24.72	28.26
SO	BUILDHGT	BOILER3	28.26	28.26	28.26	34.16	34.16	34.16
SO	BUILDWID	BOILER3	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	BOILER3	33.30	33.58	34.10	33.58	32.04	143.80
SO	BUILDWID	BOILER3	159.46	170.27	175.90	133.71	135.30	135.50
SO	BUILDWID	BOILER3	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	BOILER3	33.30	33.58	34.10	30.37	34.62	143.80
SO	BUILDWID	BOILER3	159.46	170.27	175.90	133.71	135.30	135.50
SO	BUILDHGT	BOILER4	34.16	34.16	34.16	34.16	34.16	7.17
SO	BUILDHGT	BOILER4	7.17	7.17	7.17	7.17	7.17	7.17
SO	BUILDHGT	BOILER4	28.26	28.26	28.26	34.16	34.16	34.16
SO	BUILDHGT	BOILER4	34.16	34.16	34.16	34.16	34.16	28.97
SO	BUILDHGT	BOILER4	28.97	7.17	7.17	24.72	24.72	24.72
SO	BUILDHGT	BOILER4	28.26	28.26	28.26	34.16	34.16	34.16
SO	BUILDWID	BOILER4	131.58	123.67	112.00	96.92	78.90	35.53
SO	BUILDWID	BOILER4	33.30	33.58	34.10	33.58	32.04	29.53
SO	BUILDWID	BOILER4	159.46	170.27	175.90	133.71	135.30	135.50
SO	BUILDWID	BOILER4	131.58	123.67	112.00	96.92	78.90	45.10
SO	BUILDWID	BOILER4	45.50	33.58	34.10	30.37	34.62	37.82
SO	BUILDWID	BOILER4	159.46	170.27	175.90	133.71	135.30	135.50

SO	BUILDHGT	TAPHOOD1	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD1	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD1	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD1	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD1	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD1	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	TAPHOOD1	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	TAPHOOD1	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	TAPHOOD1	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	TAPHOOD1	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	TAPHOOD1	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	TAPHOOD1	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	TAPHOOD2	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD2	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD2	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD2	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD2	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD2	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	TAPHOOD2	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	TAPHOOD2	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	TAPHOOD2	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	TAPHOOD2	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	TAPHOOD2	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	TAPHOOD2	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	TAPHOOD3	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD3	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD3	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD3	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD3	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD3	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	TAPHOOD3	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	TAPHOOD3	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	TAPHOOD3	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	TAPHOOD3	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	TAPHOOD3	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	TAPHOOD3	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	TAPHOOD4	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD4	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD4	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD4	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD4	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	TAPHOOD4	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	TAPHOOD4	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	TAPHOOD4	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	TAPHOOD4	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	TAPHOOD4	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	TAPHOOD4	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	TAPHOOD4	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	FUR1PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1PRV	34.16	34.16	34.16	34.16	34.16	34.16

SO	BUILDHGT	FUR1PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	FUR1PRV	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR1PRV	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR1PRV	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	FUR1PRV	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR1PRV	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR1PRV	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	FUR2PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	FUR2PRV	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR2PRV	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR2PRV	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	FUR2PRV	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR2PRV	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR2PRV	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	FUR3PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	FUR3PRV	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR3PRV	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR3PRV	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	FUR3PRV	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR3PRV	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR3PRV	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	FUR4PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4PRV	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	FUR4PRV	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR4PRV	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR4PRV	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	FUR4PRV	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR4PRV	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR4PRV	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	FUR1COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR1COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	FUR1COF	131.58	123.67	112.00	96.92	78.90	58.48

SO	BUILDWID	FUR1COF	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR1COF	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	FUR1COF	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR1COF	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR1COF	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	FUR2COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR2COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	FUR2COF	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR2COF	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR2COF	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	FUR2COF	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR2COF	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR2COF	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	FUR3COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR3COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	FUR3COF	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR3COF	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR3COF	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	FUR3COF	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR3COF	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR3COF	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	FUR4COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	FUR4COF	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDWID	FUR4COF	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR4COF	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR4COF	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDWID	FUR4COF	131.58	123.67	112.00	96.92	78.90	58.48
SO	BUILDWID	FUR4COF	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	FUR4COF	124.35	131.50	134.65	133.71	135.30	135.50
SO	BUILDHGT	SECFLARE	28.26	28.26	28.26	28.26	24.72	34.16
SO	BUILDHGT	SECFLARE	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	SECFLARE	34.16	28.26	28.26	28.26	28.26	28.26
SO	BUILDHGT	SECFLARE	28.26	28.26	28.26	28.26	24.72	34.16
SO	BUILDHGT	SECFLARE	34.16	34.16	34.16	34.16	34.16	34.16
SO	BUILDHGT	SECFLARE	34.16	28.26	28.26	28.26	28.26	28.26
SO	BUILDWID	SECFLARE	163.17	149.03	131.27	109.84	27.55	58.48
SO	BUILDWID	SECFLARE	36.29	43.06	61.80	81.66	99.05	113.42
SO	BUILDWID	SECFLARE	124.35	170.27	175.90	176.50	176.30	172.35
SO	BUILDWID	SECFLARE	163.17	149.03	131.27	109.84	27.55	58.48
SO	BUILDWID	SECFLARE	36.29	43.06	61.80	81.66	99.05	113.42

SO	BUILDWID	SECFLARE	124.35	170.27	175.90	176.50	176.30	172.35

SO	BUILDHGT	COFLARE	.00	9.38	9.38	9.38	9.38	9.38
SO	BUILDHGT	COFLARE	.00	.00	.00	21.66	21.66	21.66
SO	BUILDHGT	COFLARE	21.66	18.91	18.91	18.18	18.18	18.18
SO	BUILDHGT	COFLARE	18.18	.00	.00	.00	.00	.00
SO	BUILDHGT	COFLARE	.00	.00	.00	.00	.00	.00
SO	BUILDHGT	COFLARE	.00	.00	.00	.00	.00	.00
SO	BUILDWID	COFLARE	.00	39.38	37.77	35.02	31.20	26.43
SO	BUILDWID	COFLARE	.00	.00	.00	21.17	20.96	19.99
SO	BUILDWID	COFLARE	18.40	66.09	64.41	15.39	16.40	17.80
SO	BUILDWID	COFLARE	18.66	.00	.00	.00	.00	.00
SO	BUILDWID	COFLARE	.00	.00	.00	.00	.00	.00
SO	BUILDWID	COFLARE	.00	.00	.00	.00	.00	.00

Appendix AH
Typical Modeling Output

Appendix AH comprises four attachments:

(1) Appendix AH-1 – ISC2 for PM_{10} with Unitary Emission Rates (ISC2 receptors)

(2) Appendix AH-2 –FDM for PM_{10} with Unitary Emission Rates (ISC2 and FDM receptors)

(3) Appendix AH-3 – POSTZ for PM_{10} emissions (ISC2 and FDM receptors)

(4) Appendix AH-4 – POSTZ for PM_{10} emissions (FDM receptors)

Appendix AH-1

ISC2 for PM_{10} with Unitary Emission Rates (ISC2 receptors)

```
 0
 1
365
CO STARTING
   TITLEONE Unit rate 1 g/s;ISC & FDM part 1, 1993 ANNUAL EI (rev.6/27/95)
   MODELOPT RURAL CONC
   AVERTIME 1
   POLLUTID ALL
   TERRHGTS ELEV
   RUNORNOT run
CO FINISHED
NO ECHO

SO STARTING
** POINT SOURCE PARAMETERS FOR FMC
   LOCATION ESHALEBH POINT 374603.1 4751600.0 1363
   SRCPARAM ESHALEBH 1 4.0 294.3 8.73 0.41
SO BUILDHGT ESHALEBH   12.19   12.19   12.19   12.19   28.97   28.97
SO BUILDHGT ESHALEBH   28.97   12.19   12.19   12.19   12.19   12.19
SO BUILDHGT ESHALEBH   12.19   12.19   12.19   12.19   12.19   12.19
SO BUILDHGT ESHALEBH   12.19   12.19   12.19   12.19   12.19   12.19
SO BUILDHGT ESHALEBH   12.19   12.19   12.19   12.19   12.19   12.19
SO BUILDHGT ESHALEBH   12.19   12.19   12.19   12.19   12.19   12.19
SO BUILDWID ESHALEBH  456.06  423.46  377.99  321.04   43.32   45.10
SO BUILDWID ESHALEBH   45.50   67.10  148.40  225.19  295.14  356.12
SO BUILDWID ESHALEBH  406.28  444.09  468.41  478.50  479.12  474.80
SO BUILDWID ESHALEBH  456.06  423.46  377.99  321.04  254.33  179.90
SO BUILDWID ESHALEBH  100.00   67.10  148.40  225.19  295.14  356.12
SO BUILDWID ESHALEBH  406.28  444.09  468.41  478.50  479.12  474.80
   LOCATION MSHALEBH POINT 374525.8 4751573.7 1363
   SRCPARAM MSHALEBH 1 5.5 294.3 10.35 0.76
SO BUILDHGT MSHALEBH   25.16   34.16   34.16   34.16   34.16   28.97
SO BUILDHGT MSHALEBH   28.97   28.97   28.97   21.55   25.16   25.16
SO BUILDHGT MSHALEBH   25.16   25.16   25.16   25.16   25.16   25.16
SO BUILDHGT MSHALEBH   25.16   28.97   28.97   28.97   28.97   28.97
SO BUILDHGT MSHALEBH   28.97   28.97   28.97   21.55   25.16   25.16
SO BUILDHGT MSHALEBH   25.16   25.16   25.16   25.16   25.16   25.16
SO BUILDWID MSHALEBH   17.42  123.67  112.00   96.92   78.90   45.10
SO BUILDWID MSHALEBH   45.50   45.35   44.30   51.51   17.27   17.17
SO BUILDWID MSHALEBH   16.87   16.80   16.23   15.17   15.89   16.91
SO BUILDWID MSHALEBH   17.42   30.50   35.91   40.23   43.32   45.10
SO BUILDWID MSHALEBH   45.50   45.35   44.30   51.51   17.27   17.17
SO BUILDWID MSHALEBH   16.87   16.80   16.23   15.17   15.89   16.91
   LOCATION WSHALEBH POINT 374479.0 4751560.9 1363
   SRCPARAM WSHALEBH 1 11.3 294.3 18.5 0.74
SO BUILDHGT WSHALEBH   34.16   34.16   34.16   34.16   28.97   28.97
SO BUILDHGT WSHALEBH   28.97   28.97   28.97   28.97   28.97   28.97
SO BUILDHGT WSHALEBH   28.97   28.97   28.97   28.97   21.55   28.97
SO BUILDHGT WSHALEBH   28.97   28.97   28.97   28.97   28.97   28.97
SO BUILDHGT WSHALEBH   28.97   28.97   28.97   28.97   28.97   28.97
SO BUILDHGT WSHALEBH   28.97   28.97   28.97   28.97   28.26   28.26
SO BUILDWID WSHALEBH  131.58  123.67  112.00   96.92   43.32   45.10
SO BUILDWID WSHALEBH   45.50   45.35   44.30   41.91   38.24   33.41
SO BUILDWID WSHALEBH   27.57   20.89   13.58    5.85   15.29   17.10
SO BUILDWID WSHALEBH   24.17   30.50   35.91   40.23   43.32   45.10
SO BUILDWID WSHALEBH   45.50   45.35   44.30   41.91   38.24   33.41
SO BUILDWID WSHALEBH   27.57   20.89   13.58    5.85  176.30  172.35
   LOCATION CS1_1 POINT 374576.7 4751344.3 1363
   SRCPARAM CS1_1 1 27.4 327.6 5.71 3.16
SO BUILDHGT CS1_1      21.66   21.66   21.66   21.66   21.66   21.66
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SO BUILDHGT CS1_1      21.66   21.66   34.16   34.16   34.16   34.16
SO BUILDHGT CS1_1      28.26   28.26   24.72   24.72   24.72   24.72
SO BUILDHGT CS1_1      21.66   21.66   21.66   21.66   21.66   21.66
SO BUILDHGT CS1_1      21.66   21.66   21.66   21.66   21.66   21.66
SO BUILDHGT CS1_1      21.66   18.91   18.91   18.91   18.91   18.91
SO BUILDWID CS1_1      17.84   19.74   21.04   21.70   21.70   21.04
SO BUILDWID CS1_1      19.74   20.06   61.80   81.66   99.05  113.42
SO BUILDWID CS1_1     159.46  170.27   40.31   38.69   39.65   40.60
SO BUILDWID CS1_1      17.84   19.74   21.04   21.70   21.70   21.04
SO BUILDWID CS1_1      19.74   20.06   21.00   21.31   20.96   19.99
SO BUILDWID CS1_1      18.40   66.09   64.41   60.76   64.77   69.90
   LOCATION CS1_2 POINT 374569.3 4751334.9 1363
   SRCPARAM CS1_2 1 27.4 327.6 5.71 3.16
SO BUILDHGT CS1_2      21.66   21.66   21.66   21.66   21.66   21.66
SO BUILDHGT CS1_2      21.66   21.66   21.66   34.16   34.16   34.16
SO BUILDHGT CS1_2      34.16   28.26   20.92   24.72   24.72   24.72
SO BUILDHGT CS1_2      24.72   21.66   21.66   21.66   21.66   21.66
SO BUILDHGT CS1_2      21.66   21.66   21.66   21.66   21.66   18.91
SO BUILDHGT CS1_2      18.91   18.91   18.91    9.38   18.91   18.91
SO BUILDWID CS1_2      17.84   19.74   21.04   21.70   21.70   21.04
SO BUILDWID CS1_2      19.74   20.06   21.00   81.66   99.05  113.42
SO BUILDWID CS1_2     124.35  170.27   73.81   38.69   39.65   40.60
SO BUILDWID CS1_2      40.31   19.74   21.04   21.70   21.70   21.04
SO BUILDWID CS1_2      19.74   20.06   21.00   21.31   20.96  129.06
SO BUILDWID CS1_2      85.38   66.09   64.41   36.02  138.37  139.20
   LOCATION CS2_1 POINT 374579.9 4751284.3 1363
   SRCPARAM CS2_1 1 27.4 327.6 6.24 3.16
SO BUILDHGT CS2_1       6.15    9.38    9.38    9.38    9.38    9.38
SO BUILDHGT CS2_1       9.38    9.38    9.38    9.38   34.16   34.16
SO BUILDHGT CS2_1      34.16   34.16   24.17    6.15    6.15   21.66
SO BUILDHGT CS2_1      21.66   21.66    9.38    9.38    9.38    9.38
SO BUILDHGT CS2_1       9.38    9.38    9.38    9.38    9.38    9.38
SO BUILDHGT CS2_1       9.38    9.38     .00     .00     .00    6.15
SO BUILDWID CS2_1      79.34   39.38   37.77   35.02   31.20   26.43
SO BUILDWID CS2_1      20.86   23.11   28.40   32.83   99.05  113.42
SO BUILDWID CS2_1     124.35  131.50   56.21   36.51   37.10   15.40
SO BUILDWID CS2_1      17.84   19.74   37.77   35.02   31.20   26.43
SO BUILDWID CS2_1      20.86   23.11   28.40   32.83   36.26   38.60
SO BUILDWID CS2_1      39.75   39.70     .00     .00     .00   83.00
   LOCATION CS2_2 POINT 374573.8 4751275.6 1363
   SRCPARAM CS2_2 1 27.4 327.6 6.24 3.16
SO BUILDHGT CS2_2       9.15    9.15   18.91    6.15    6.15    5.94
SO BUILDHGT CS2_2       5.94     .00     .00     .00   34.16   34.16
SO BUILDHGT CS2_2      34.16   34.16   34.16   24.17   24.17   18.91
SO BUILDHGT CS2_2      18.91   18.91   21.66   21.66    6.15     .00
SO BUILDHGT CS2_2        .00     .00     .00     .00     .00    9.15
SO BUILDHGT CS2_2       9.15    9.15    9.15     .00     .00    9.15
SO BUILDWID CS2_2      46.61   43.69  120.78   54.71   42.78   17.17
SO BUILDWID CS2_2      15.84     .00     .00     .00   99.05  113.42
SO BUILDWID CS2_2     124.35  131.50  134.65   48.66   49.61  139.20
SO BUILDWID CS2_2     135.80  128.27   21.04   21.70   42.78     .00
SO BUILDWID CS2_2        .00     .00     .00     .00     .00   41.62
SO BUILDWID CS2_2      45.28   47.56   48.40     .00     .00   48.10
   LOCATION CV1_1 POINT 374561.4 4751353.7 1363
   SRCPARAM CV1_1 1 12.8 588.7 7.28 1.72
SO BUILDHGT CV1_1      18.91   18.91   18.91   18.91   21.66   21.66
SO BUILDHGT CV1_1      21.66   24.17   34.16   34.16   34.16   34.16
SO BUILDHGT CV1_1      28.26   28.26   20.92   24.72   24.72   24.72
SO BUILDHGT CV1_1      24.72   18.91   18.91   18.91   21.66   21.66
SO BUILDHGT CV1_1      21.66   24.17   21.66   21.66   21.66   21.66
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SO BUILDHGT CV1_1      21.66   24.17   20.92   18.91   18.91   18.91
SO BUILDWID CV1_1      72.90   73.69   72.24   68.59   21.70   21.04
SO BUILDWID CV1_1      19.74   55.46   61.80   81.66   99.05  113.42
SO BUILDWID CV1_1     159.46  170.27   73.81   38.69   39.65   40.60
SO BUILDWID CV1_1      40.31   73.69   72.24   68.59   21.70   21.04
SO BUILDWID CV1_1      19.74   55.46   21.00   21.31   20.96   19.99
SO BUILDWID CV1_1      18.40   62.05   73.81   60.76   64.77   69.90
   LOCATION CV1_2 POINT 374560.0 4751353.3 1363
   SRCPARAM CV1_2 1 12.8 477.6 7.28 1.72
SO BUILDHGT CV1_2      18.91   18.91   18.91   18.91   21.66   21.66
SO BUILDHGT CV1_2      21.66   24.17   34.16   34.16   34.16   34.16
SO BUILDHGT CV1_2      34.16   28.26   20.92   24.72   24.72   24.72
SO BUILDHGT CV1_2      24.72   18.91   18.91   18.91   21.66   21.66
SO BUILDHGT CV1_2      21.66   24.17   21.66   21.66   21.66   21.66
SO BUILDHGT CV1_2      21.66   24.17   20.92   18.91   18.91   18.91
SO BUILDWID CV1_2      72.90   73.69   72.24   68.59   21.70   21.04
SO BUILDWID CV1_2      19.74   55.46   61.80   81.66   99.05  113.42
SO BUILDWID CV1_2     124.35  170.27   73.81   38.69   39.65   40.60
SO BUILDWID CV1_2      40.31   73.69   72.24   68.59   21.70   21.04
SO BUILDWID CV1_2      19.74   55.46   21.00   21.31   20.96   19.99
SO BUILDWID CV1_2      18.40   62.05   73.81   60.76   64.77   69.90
   LOCATION CV2_1 POINT 374581.8 4751302.4 1363
   SRCPARAM CV2_1 1 12.5 588.7 8.98 1.83
SO BUILDHGT CV2_1      18.91   21.66   21.66    6.15     .00     .00
SO BUILDHGT CV2_1        .00    9.15    9.38   34.16   34.16   34.16
SO BUILDHGT CV2_1      34.16   24.17   24.17   18.91   18.91   18.91
SO BUILDHGT CV2_1      21.66   21.66   21.66   18.18     .00     .00
SO BUILDHGT CV2_1        .00     .00    9.38    9.38   18.91   18.91
SO BUILDHGT CV2_1       9.38    9.38    9.38    9.38    9.38    6.15
SO BUILDWID CV2_1     135.80   19.74   21.04   28.08     .00     .00
SO BUILDWID CV2_1        .00   16.01   28.40   81.66   99.05  113.42
SO BUILDWID CV2_1     124.35   62.05   64.03   60.76   64.77   69.90
SO BUILDWID CV2_1      17.84   19.74   21.04   17.81     .00     .00
SO BUILDWID CV2_1        .00     .00   28.40   32.83  116.90  129.06
SO BUILDWID CV2_1      39.75   39.70   38.45   36.02   37.02   37.50
   LOCATION CV2_2 POINT 374572.5 4751299.6 1363
   SRCPARAM CV2_2 1 12.5 477.6 8.08 1.83
SO BUILDHGT CV2_2      18.91   18.91   21.66   21.66    6.15     .00
SO BUILDHGT CV2_2        .00    9.38    9.38   34.16   34.16   34.16
SO BUILDHGT CV2_2      34.16   34.16   24.17   18.91   18.91   18.91
SO BUILDHGT CV2_2      21.66   21.66   21.66   21.66    6.15     .00
SO BUILDHGT CV2_2        .00    9.38    9.38    9.38    9.38   18.91
SO BUILDHGT CV2_2       9.38    9.38    6.15    6.15    6.15    6.15
SO BUILDWID CV2_2     135.80  128.27   21.04   21.70   23.34     .00
SO BUILDWID CV2_2        .00   23.11   28.40   81.66   99.05  113.42
SO BUILDWID CV2_2     124.35  131.50   56.21   60.76   64.77   69.90
SO BUILDWID CV2_2      17.84   19.74   21.04   21.70   23.34     .00
SO BUILDWID CV2_2        .00   23.11   28.40   32.83   36.26  129.06
SO BUILDWID CV2_2      39.75   39.70   37.38   36.51   37.10   37.50
   LOCATION DISCSBH  POINT 374625.7 4751366.8 1363
   SRCPARAM DISCSBH  1 6.4 305.4 24.25 0.61
SO BUILDHGT DISCSBH    18.18   18.18   18.18   21.66   21.66   21.66
SO BUILDHGT DISCSBH    21.66   24.17   34.16   34.16   34.16   28.26
SO BUILDHGT DISCSBH    24.72   24.72   24.72   18.18   18.18   18.18
SO BUILDHGT DISCSBH    18.18   18.18   18.18   21.66   21.66   21.66
SO BUILDHGT DISCSBH    21.66   21.66   21.66   18.91   18.91   18.91
SO BUILDHGT DISCSBH    18.91   18.91   18.91   18.18   18.18   18.18
SO BUILDWID DISCSBH    18.66   18.95   18.67   21.70   21.70   21.04
SO BUILDWID DISCSBH    19.74   55.46   61.80   81.66   99.05  143.80
SO BUILDWID DISCSBH    39.87   40.71   40.31   15.39   16.40   17.80
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SO BUILDWID DISCSBH    18.66   18.95   18.67   21.70   21.70   21.04
SO BUILDWID DISCSBH    19.74   20.06   21.00   54.33   59.21   63.45
SO BUILDWID DISCSBH    65.77   66.09   64.41   15.39   16.40   17.80
   LOCATION DISCNBH  POINT 374623.4 4751374.3 1363
   SRCPARAM DISCNBH  1 6.4 305.4 24.25 0.61
SO BUILDHGT DISCNBH    18.18   18.18   21.66   21.66   21.66   21.66
SO BUILDHGT DISCNBH    21.66   24.17   34.16   34.16   34.16   24.72
SO BUILDHGT DISCNBH    24.72   24.72   24.72   18.18   18.18   18.18
SO BUILDHGT DISCNBH    18.18   18.18   21.66   21.66   21.66   21.66
SO BUILDHGT DISCNBH    21.66   21.66   18.91   18.91   18.91   18.91
SO BUILDHGT DISCNBH    18.91   18.91   18.91   18.18   18.18   18.18
SO BUILDWID DISCNBH    18.66   18.95   21.04   21.70   21.70   21.04
SO BUILDWID DISCNBH    19.74   55.46   61.80   81.66   99.05   37.82
SO BUILDWID DISCNBH    39.87   40.71   40.31   15.39   16.40   17.80
SO BUILDWID DISCNBH    18.66   18.95   21.04   21.70   21.70   21.04
SO BUILDWID DISCNBH    19.74   20.06   51.50   54.33   59.21   63.45
SO BUILDWID DISCNBH    65.77   66.09   64.41   15.39   16.40   17.80
   LOCATION ENODULEB POINT 374558.4 4751452.5 1363
   SRCPARAM ENODULEB 1 12.8 294.3 15.09 0.91
SO BUILDHGT ENODULEB   24.72   24.72   24.72   24.72   24.72   34.16
SO BUILDHGT ENODULEB   34.16   34.16   24.72   24.72   24.72   24.72
SO BUILDHGT ENODULEB   28.97   24.72   24.72   24.72   24.72   24.72
SO BUILDHGT ENODULEB   24.72   24.72   24.72   24.72   24.72   24.72
SO BUILDHGT ENODULEB   24.72   24.72   24.72   24.72   24.72   24.72
SO BUILDHGT ENODULEB   24.72   24.72   24.72   24.72   24.72   24.72
SO BUILDWID ENODULEB   40.31   38.80   36.11   32.32   27.55   58.48
SO BUILDWID ENODULEB   36.29   43.06   25.20   30.37   34.62   37.82
SO BUILDWID ENODULEB   27.57   40.71   40.31   38.69   39.65   40.60
SO BUILDWID ENODULEB   40.31   38.80   36.11   32.32   27.55   21.95
SO BUILDWID ENODULEB   15.67   19.26   25.20   30.37   34.62   37.82
SO BUILDWID ENODULEB   39.87   40.71   40.31   38.69   39.65   40.60
   LOCATION WNODULEB POINT 374535.8 4751448.2 1363
   SRCPARAM WNODULEB 1 12.8 294.3 15.09 0.91
SO BUILDHGT WNODULEB   24.72   24.72   24.72   28.26   34.16   34.16
SO BUILDHGT WNODULEB   34.16   34.16   28.26   24.72   24.72   24.72
SO BUILDHGT WNODULEB   24.72   24.72   24.72   24.72   24.72   24.72
SO BUILDHGT WNODULEB   24.72   24.72   24.72   28.26   28.26   28.26
SO BUILDHGT WNODULEB   28.26   28.26   28.26   24.72   24.72   24.72
SO BUILDHGT WNODULEB   24.72   24.72   24.72   24.72   24.72   24.72
SO BUILDWID WNODULEB   40.31   38.80   36.11  109.84   78.90   58.48
SO BUILDWID WNODULEB   36.29   43.06   75.85   30.37   34.62   37.82
SO BUILDWID WNODULEB   39.87   40.71   40.31   38.69   39.65   40.60
SO BUILDWID WNODULEB   40.31   38.80   36.11  109.84   85.06   58.48
SO BUILDWID WNODULEB   36.29   47.89   75.85   30.37   34.62   37.82
SO BUILDWID WNODULEB   39.87   40.71   40.31   38.69   39.65   40.60
   LOCATION STOCKPIL POINT 374610.9 4751430.1 1363
   SRCPARAM STOCKPIL 1 3.5 294.3 15.65 0.88
SO BUILDHGT STOCKPIL   21.66   21.66   21.66   18.91   18.91   24.17
SO BUILDHGT STOCKPIL   24.17   34.16   34.16   24.72   24.72   24.72
SO BUILDHGT STOCKPIL   24.72   12.19   12.19   12.19   12.19   12.19
SO BUILDHGT STOCKPIL   18.91   18.91   18.91   18.91   18.91   18.91
SO BUILDHGT STOCKPIL   18.91   24.72   24.72   24.72   24.72   24.72
SO BUILDHGT STOCKPIL   24.72   12.19   18.18   18.18   18.18     .00
SO BUILDWID STOCKPIL   17.84   19.74   21.04   68.59   62.86   48.33
SO BUILDWID STOCKPIL   49.45   43.06   61.80   30.37   34.62   37.82
SO BUILDWID STOCKPIL   39.87  444.56  468.80  478.80  478.66  474.60
SO BUILDWID STOCKPIL   72.90   73.69   72.24   68.59   62.86   55.21
SO BUILDWID STOCKPIL   45.90   19.26   25.20   30.37   34.62   37.82
SO BUILDWID STOCKPIL   39.87  444.56   17.07   15.39   16.40     .00
   LOCATION DUSTSILO POINT 374448.4 4751425.3 1363
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   SRCPARAM DUSTSILO 1 20.9 294.3 15.81 0.91
SO BUILDHGT DUSTSILO   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT DUSTSILO   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT DUSTSILO   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT DUSTSILO   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT DUSTSILO   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT DUSTSILO   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID DUSTSILO  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID DUSTSILO   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID DUSTSILO  124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID DUSTSILO  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID DUSTSILO   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID DUSTSILO  124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION EBURDEN POINT 374397.0 4751385.7 1363
   SRCPARAM EBURDEN 1 34.1 294.3 20.69 1.52
SO BUILDHGT EBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT EBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT EBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT EBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT EBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT EBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID EBURDEN   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID EBURDEN    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID EBURDEN   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID EBURDEN   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID EBURDEN    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID EBURDEN   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION WBURDEN POINT 374380.7 4751380.6 1363
   SRCPARAM WBURDEN 1 34.1 294.3 20.69 1.52
SO BUILDHGT WBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT WBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT WBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT WBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT WBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT WBURDEN    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID WBURDEN   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID WBURDEN    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID WBURDEN   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID WBURDEN   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID WBURDEN    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID WBURDEN   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION COKEBAGH POINT 374545.0 4751454.8 1363
   SRCPARAM COKEBAGH 1 12.8 294.3 15.09 0.91
SO BUILDHGT COKEBAGH   24.72   24.72   24.72   24.72   34.16   34.16
SO BUILDHGT COKEBAGH   34.16   34.16   24.72   24.72   24.72   24.72
SO BUILDHGT COKEBAGH   28.97   24.72   24.72   24.72   24.72   24.72
SO BUILDHGT COKEBAGH   24.72   24.72   24.72   24.72   28.26   28.26
SO BUILDHGT COKEBAGH   28.26   28.26   24.72   24.72   24.72   24.72
SO BUILDHGT COKEBAGH   24.72   24.72   24.72   24.72   24.72   24.72
SO BUILDWID COKEBAGH   40.31   38.80   36.11   32.32   78.90   58.48
SO BUILDWID COKEBAGH   36.29   43.06   25.20   30.37   34.62   37.82
SO BUILDWID COKEBAGH   27.57   40.71   40.31   38.69   39.65   40.60
SO BUILDWID COKEBAGH   40.31   38.80   36.11   32.32   85.06   58.48
SO BUILDWID COKEBAGH   36.29   47.89   25.20   30.37   34.62   37.82
SO BUILDWID COKEBAGH   39.87   40.71   40.31   38.69   39.65   40.60
   LOCATION PHOSDOCK POINT 374400.2 4751467.6 1363
   SRCPARAM PHOSDOCK 1 15.2 305.4 11.0 1.17
SO BUILDHGT PHOSDOCK   34.16   34.16   34.16   34.16   34.16    7.60
SO BUILDHGT PHOSDOCK    7.60    7.60    7.60    7.60   28.26   34.16
SO BUILDHGT PHOSDOCK   34.16   34.16   34.16   34.16   34.16   34.16
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SO BUILDHGT PHOSDOCK   34.16   34.16   34.16   34.16   34.16   28.97
SO BUILDHGT PHOSDOCK    7.60    7.60    7.60   18.91   28.26   34.16
SO BUILDHGT PHOSDOCK   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID PHOSDOCK  131.58  123.67  112.00   96.92   78.90   73.76
SO BUILDWID PHOSDOCK   70.25   71.05   71.90   70.56  124.08  113.42
SO BUILDWID PHOSDOCK  124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID PHOSDOCK  131.58  123.67  112.00   96.92   78.90   45.10
SO BUILDWID PHOSDOCK   70.25   71.05   71.90  101.19  124.08  113.42
SO BUILDWID PHOSDOCK  124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION BOILER3 POINT 374443.0 4751473.5 1363
   SRCPARAM BOILER3 1 9.8 422 2.67 1.01
SO BUILDHGT BOILER3    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT BOILER3     7.17    7.17    7.17    7.17    7.17   28.26
SO BUILDHGT BOILER3    28.26   28.26   28.26   34.16   34.16   34.16
SO BUILDHGT BOILER3    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT BOILER3     7.17    7.17    7.17   24.72   24.72   28.26
SO BUILDHGT BOILER3    28.26   28.26   28.26   34.16   34.16   34.16
SO BUILDWID BOILER3   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID BOILER3    33.30   33.58   34.10   33.58   32.04  143.80
SO BUILDWID BOILER3   159.46  170.27  175.90  133.71  135.30  135.50
SO BUILDWID BOILER3   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID BOILER3    33.30   33.58   34.10   30.37   34.62  143.80
SO BUILDWID BOILER3   159.46  170.27  175.90  133.71  135.30  135.50
   LOCATION BOILER4 POINT 374439.7 4751484.3 1363
   SRCPARAM BOILER4 1 9.8 422 2.67 1.01
SO BUILDHGT BOILER4    34.16   34.16   34.16   34.16   34.16    7.17
SO BUILDHGT BOILER4     7.17    7.17    7.17    7.17    7.17    7.17
SO BUILDHGT BOILER4    28.26   28.26   28.26   34.16   34.16   34.16
SO BUILDHGT BOILER4    34.16   34.16   34.16   34.16   34.16   28.97
SO BUILDHGT BOILER4    28.97    7.17    7.17   24.72   24.72   24.72
SO BUILDHGT BOILER4    28.26   28.26   28.26   34.16   34.16   34.16
SO BUILDWID BOILER4   131.58  123.67  112.00   96.92   78.90   35.53
SO BUILDWID BOILER4    33.30   33.58   34.10   33.58   32.04   29.53
SO BUILDWID BOILER4   159.46  170.27  175.90  133.71  135.30  135.50
SO BUILDWID BOILER4   131.58  123.67  112.00   96.92   78.90   45.10
SO BUILDWID BOILER4    45.50   33.58   34.10   30.37   34.62   37.82
SO BUILDWID BOILER4   159.46  170.27  175.90  133.71  135.30  135.50
   LOCATION 1FURTAPH POINT 374419.9 4751410.9 1363
   SRCPARAM 1FURTAPH 1 34.0 294.3 16.17 1.22
SO BUILDHGT 1FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 1FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 1FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 1FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 1FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 1FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID 1FURTAPH  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID 1FURTAPH   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID 1FURTAPH  124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID 1FURTAPH  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID 1FURTAPH   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID 1FURTAPH  124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION 2FURTAPH POINT 374420.9 4751409.6 1363
   SRCPARAM 2FURTAPH 1 34.0 294.3 16.17 1.22
SO BUILDHGT 2FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 2FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 2FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 2FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 2FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 2FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID 2FURTAPH  131.58  123.67  112.00   96.92   78.90   58.48
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SO BUILDWID 2FURTAPH   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID 2FURTAPH  124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID 2FURTAPH  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID 2FURTAPH   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID 2FURTAPH  124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION 3FURTAPH POINT 374355.1 4751390.9 1363
   SRCPARAM 3FURTAPH 1 34.0 294.3 16.17 1.22
SO BUILDHGT 3FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 3FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 3FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 3FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 3FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 3FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID 3FURTAPH  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID 3FURTAPH   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID 3FURTAPH  124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID 3FURTAPH  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID 3FURTAPH   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID 3FURTAPH  124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION 4FURTAPH POINT 374356.8 4751389.4 1363
   SRCPARAM 4FURTAPH 1 34.0 294.3 16.17 1.22
SO BUILDHGT 4FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 4FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 4FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 4FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 4FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT 4FURTAPH   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID 4FURTAPH  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID 4FURTAPH   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID 4FURTAPH  124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID 4FURTAPH  131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID 4FURTAPH   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID 4FURTAPH  124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION FUR1PRV POINT 374424.3 4751408.7 1363
   SRCPARAM FUR1PRV 1 41.0 773.2 5.69 0.76
SO BUILDHGT FUR1PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID FUR1PRV   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR1PRV    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR1PRV   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID FUR1PRV   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR1PRV    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR1PRV   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION FUR2PRV POINT 374421.6 4751407.9 1363
   SRCPARAM FUR2PRV 1 41.0 773.2 5.69 0.76
SO BUILDHGT FUR2PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID FUR2PRV   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR2PRV    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR2PRV   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID FUR2PRV   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR2PRV    36.29   43.06   61.80   81.66   99.05  113.42
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SO BUILDWID FUR2PRV   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION FUR3PRV POINT 374360.3 4751388.9 1363
   SRCPARAM FUR3PRV 1 41.0 773.2 5.69 0.76
SO BUILDHGT FUR3PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID FUR3PRV   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR3PRV    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR3PRV   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID FUR3PRV   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR3PRV    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR3PRV   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION FUR4PRV POINT 374357.7 4751387.9 1363
   SRCPARAM FUR4PRV 1 41.0 773.2 5.69 0.76
SO BUILDHGT FUR4PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4PRV    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID FUR4PRV   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR4PRV    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR4PRV   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID FUR4PRV   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR4PRV    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR4PRV   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION FUR1COF POINT 374444.8 4751416.2 1363
   SRCPARAM FUR1COF 1 38.7 1273.2 20.0 1.43
SO BUILDHGT FUR1COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR1COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID FUR1COF   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR1COF    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR1COF   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID FUR1COF   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR1COF    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR1COF   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION FUR2COF POINT 374391.3 4751398.1 1363
   SRCPARAM FUR2COF 1 38.7 1273.2 20.0 1.43
SO BUILDHGT FUR2COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR2COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID FUR2COF   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR2COF    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR2COF   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID FUR2COF   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR2COF    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR2COF   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION FUR3COF POINT 374390.9 4751397.9 1363
   SRCPARAM FUR3COF 1 38.7 1273.2 20.0 1.43
SO BUILDHGT FUR3COF    34.16   34.16   34.16   34.16   34.16   34.16
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SO BUILDHGT FUR3COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR3COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID FUR3COF   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR3COF    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR3COF   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID FUR3COF   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR3COF    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR3COF   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION FUR4COF POINT 374336.9 4751382.2 1363
   SRCPARAM FUR4COF 1 38.7 1273.2 20.0 1.43
SO BUILDHGT FUR4COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT FUR4COF    34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDWID FUR4COF   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR4COF    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR4COF   124.35  131.50  134.65  133.71  135.30  135.50
SO BUILDWID FUR4COF   131.58  123.67  112.00   96.92   78.90   58.48
SO BUILDWID FUR4COF    36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID FUR4COF   124.35  131.50  134.65  133.71  135.30  135.50
   LOCATION SECFLARE POINT 374498.7 4751401.8 1363
   SRCPARAM SECFLARE 1 36.7 1273.2 20 0.97
SO BUILDHGT SECFLARE   28.26   28.26   28.26   28.26   24.72   34.16
SO BUILDHGT SECFLARE   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT SECFLARE   34.16   28.26   28.26   28.26   28.26   28.26
SO BUILDHGT SECFLARE   28.26   28.26   28.26   28.26   24.72   34.16
SO BUILDHGT SECFLARE   34.16   34.16   34.16   34.16   34.16   34.16
SO BUILDHGT SECFLARE   34.16   28.26   28.26   28.26   28.26   28.26
SO BUILDWID SECFLARE  163.17  149.03  131.27  109.84   27.55   58.48
SO BUILDWID SECFLARE   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID SECFLARE  124.35  170.27  175.90  176.50  176.30  172.35
SO BUILDWID SECFLARE  163.17  149.03  131.27  109.84   27.55   58.48
SO BUILDWID SECFLARE   36.29   43.06   61.80   81.66   99.05  113.42
SO BUILDWID SECFLARE  124.35  170.27  175.90  176.50  176.30  172.35
   LOCATION COFLARE POINT 374639.6 4751323.6 1363
   SRCPARAM COFLARE 1 4.0 1273.2 20.0 0.72
SO BUILDHGT COFLARE      .00    9.38    9.38    9.38    9.38    9.38
SO BUILDHGT COFLARE      .00     .00     .00   21.66   21.66   21.66
SO BUILDHGT COFLARE    21.66   18.91   18.91   18.18   18.18   18.18
SO BUILDHGT COFLARE    18.18     .00     .00     .00     .00     .00
SO BUILDHGT COFLARE      .00     .00     .00     .00     .00     .00
SO BUILDHGT COFLARE      .00     .00     .00     .00     .00     .00
SO BUILDWID COFLARE      .00   39.38   37.77   35.02   31.20   26.43
SO BUILDWID COFLARE      .00     .00     .00   21.17   20.96   19.99
SO BUILDWID COFLARE    18.40   66.09   64.41   15.39   16.40   17.80
SO BUILDWID COFLARE    18.66     .00     .00     .00     .00     .00
SO BUILDWID COFLARE      .00     .00     .00     .00     .00     .00
SO BUILDWID COFLARE      .00     .00     .00     .00     .00     .00
** POINT SOURCE PARAMETERS FOR SIMPLOT
   LOCATION PHOSACID POINT 375616.5 4751615.0 1356
   SRCPARAM PHOSACID 1 54.6 311 15.3 1.83
SO BUILDHGT PHOSACID   35.40   35.40   35.40   35.40   35.40   35.40
SO BUILDHGT PHOSACID   30.50   29.30   29.30   29.30   29.30   29.30
SO BUILDHGT PHOSACID   29.30   29.30   29.30   29.30   35.40   35.40
SO BUILDHGT PHOSACID   35.40   35.40   35.40   35.40   35.40   35.40
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SO BUILDHGT PHOSACID   30.50   29.30   29.30   29.30   29.30   29.30
SO BUILDHGT PHOSACID   29.30   29.30   29.30   29.30   35.40   35.40
SO BUILDWID PHOSACID   59.60   57.35   58.45   57.78   55.35   51.24
SO BUILDWID PHOSACID   30.28   58.42   52.00   45.19   41.92   46.56
SO BUILDWID PHOSACID   49.79   52.95   56.24   57.81   86.28   82.20
SO BUILDWID PHOSACID   76.49   70.07   64.76   57.78   55.35   51.24
SO BUILDWID PHOSACID   30.28   58.42   52.00   45.19   41.92   46.56
SO BUILDWID PHOSACID   49.79   52.95   56.24   57.81   86.28   82.20
   LOCATION GRAN1RNG POINT 375412.8 4751633.0 1356
   SRCPARAM GRAN1RNG 1 29.9 350 17.03 0.89
SO BUILDHGT GRAN1RNG   29.60   29.60   29.60   23.50   23.50   23.50
SO BUILDHGT GRAN1RNG   23.50   23.50   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1RNG   23.50   23.50   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1RNG   23.50   21.30   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1RNG   23.50   23.50   23.50   23.50   35.40   35.40
SO BUILDHGT GRAN1RNG   35.40   23.50   23.50   23.50   23.50   23.50
SO BUILDWID GRAN1RNG   17.72   16.12   18.18   27.18   31.42   34.71
SO BUILDWID GRAN1RNG   36.94   38.05   38.00   36.80   34.93   36.85
SO BUILDWID GRAN1RNG   37.65   37.30   35.82   33.26   29.68   25.20
SO BUILDWID GRAN1RNG   19.95   36.99   22.12   27.18   31.42   34.71
SO BUILDWID GRAN1RNG   36.94   38.05   38.00   36.80   59.52   39.90
SO BUILDWID GRAN1RNG   47.78   37.30   35.82   33.26   29.68   25.20
   LOCATION GRAN1BAG POINT 375416.3 4751638.0 1356
   SRCPARAM GRAN1BAG 1 29.9 341 15.5 0.76
SO BUILDHGT GRAN1BAG   29.60   29.60   29.60   23.50   23.50   23.50
SO BUILDHGT GRAN1BAG   23.50   23.50   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1BAG   23.50   23.50   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1BAG   23.50   21.30   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1BAG   23.50   23.50   23.50   23.50   35.40   35.40
SO BUILDHGT GRAN1BAG   35.40   35.40   23.50   23.50   23.50   23.50
SO BUILDWID GRAN1BAG   17.72   16.12   18.18   27.18   31.42   34.71
SO BUILDWID GRAN1BAG   36.94   38.05   38.00   36.80   34.93   36.85
SO BUILDWID GRAN1BAG   37.65   37.30   35.82   33.26   29.68   25.20
SO BUILDWID GRAN1BAG   19.95   36.99   22.12   27.18   31.42   34.71
SO BUILDWID GRAN1BAG   36.94   38.05   38.00   36.80   59.52   39.90
SO BUILDWID GRAN1BAG   47.78   54.22   35.82   33.26   29.68   25.20
   LOCATION GRAN1DRY POINT 375413.2 4751639.0 1356
   SRCPARAM GRAN1DRY 1 29.9 332 16.99 1.19
SO BUILDHGT GRAN1DRY   29.60   29.60   29.60   23.50   23.50   23.50
SO BUILDHGT GRAN1DRY   23.50   23.50   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1DRY   23.50   23.50   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1DRY   23.50   21.30   23.50   23.50   23.50   23.50
SO BUILDHGT GRAN1DRY   23.50   23.50   23.50   23.50   35.40   35.40
SO BUILDHGT GRAN1DRY   35.40   35.40   23.50   23.50   23.50   23.50
SO BUILDWID GRAN1DRY   17.72   16.12   18.18   27.18   31.42   34.71
SO BUILDWID GRAN1DRY   36.94   38.05   38.00   36.80   34.93   36.85
SO BUILDWID GRAN1DRY   37.65   37.30   35.82   33.26   29.68   25.20
SO BUILDWID GRAN1DRY   19.95   36.99   22.12   27.18   31.42   34.71
SO BUILDWID GRAN1DRY   36.94   38.05   38.00   36.80   59.52   39.90
SO BUILDWID GRAN1DRY   47.78   54.22   35.82   33.26   29.68   25.20
   LOCATION GRAN2TGS POINT 375401.1 4751567.0 1356
   SRCPARAM GRAN2TGS 1 45.7 311 12.7 1.83
SO BUILDHGT GRAN2TGS   29.60   29.60   29.60   29.60   29.60   29.60
SO BUILDHGT GRAN2TGS   29.60   29.60   29.60   29.60   21.30   29.60
SO BUILDHGT GRAN2TGS   29.60   29.60   29.60   29.60   29.60   23.50
SO BUILDHGT GRAN2TGS   29.60   29.60   29.60   29.60   29.60   29.60
SO BUILDHGT GRAN2TGS   29.60   29.60   35.40   35.40   35.40   29.60
SO BUILDHGT GRAN2TGS   29.60   29.60   29.60   29.60   29.60   29.60
SO BUILDWID GRAN2TGS   17.72   16.12   18.18   19.69   20.60   20.89
SO BUILDWID GRAN2TGS   20.54   19.57   18.00   15.89   33.31   16.63
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SO BUILDWID GRAN2TGS   18.60   20.00   20.80   20.97   20.49   25.20
SO BUILDWID GRAN2TGS   17.72   16.12   18.18   19.69   20.60   20.89
SO BUILDWID GRAN2TGS   20.54   19.57   36.20   51.78   59.52   16.63
SO BUILDWID GRAN2TGS   18.60   20.00   20.80   20.97   20.49   19.40
   LOCATION GRAN2COL POINT 375395.9 4751603.0 1356
   SRCPARAM GRAN2COL 1 18.3 331 18.65 0.91
SO BUILDHGT GRAN2COL   29.60   29.60   29.60   29.60   29.60   23.50
SO BUILDHGT GRAN2COL   23.50   23.50   21.30   21.30   21.30   21.30
SO BUILDHGT GRAN2COL   21.30   29.60   29.60   29.60   29.60   23.50
SO BUILDHGT GRAN2COL   29.60   29.60   29.60   29.60   29.60   23.50
SO BUILDHGT GRAN2COL   23.50   23.50   21.30   35.40   35.40   35.40
SO BUILDHGT GRAN2COL   21.30   29.60   29.60   29.60   29.60   23.50
SO BUILDWID GRAN2COL   17.72   16.12   18.18   19.69   20.60   34.71
SO BUILDWID GRAN2COL   36.94   38.05   27.00   30.13   33.31   39.05
SO BUILDWID GRAN2COL   21.58   20.00   20.80   20.97   20.49   25.20
SO BUILDWID GRAN2COL   17.72   16.12   18.18   19.69   20.60   34.71
SO BUILDWID GRAN2COL   36.94   38.05   27.00   51.78   59.52   39.90
SO BUILDWID GRAN2COL   21.58   20.00   20.80   20.97   20.49   25.20
   LOCATION GRAN3    POINT 375676.6 4751603.0 1356
   SRCPARAM GRAN3    1 53.3 324 11.0 1.83
SO BUILDHGT GRAN3      29.30   29.30   29.30   29.30   35.40   35.40
SO BUILDHGT GRAN3      35.40   29.30   29.30   29.30   29.30   29.30
SO BUILDHGT GRAN3      29.30   30.50   30.50   30.50   29.30   29.30
SO BUILDHGT GRAN3      29.30   29.30   29.30   29.30   29.30   29.30
SO BUILDHGT GRAN3      29.30   29.30   29.30   29.30   29.30   29.30
SO BUILDHGT GRAN3      29.30   30.50   30.50   30.50   29.30   29.30
SO BUILDWID GRAN3      54.63   56.78   61.94   65.22   55.35   51.24
SO BUILDWID GRAN3      45.57   58.42   52.00   45.19   41.92   46.56
SO BUILDWID GRAN3      49.79   30.89   30.16   28.51   57.63   55.70
SO BUILDWID GRAN3      54.63   56.78   61.94   65.22   66.51   65.78
SO BUILDWID GRAN3      63.06   58.42   52.00   45.19   41.92   46.56
SO BUILDWID GRAN3      49.79   30.89   30.16   28.51   57.63   55.70
   LOCATION ASDRYVSC POINT 375421.8 4751575.0 1356
   SRCPARAM ASDRYVSC 1 23.2 311 14.9 0.51
SO BUILDHGT ASDRYVSC   21.30   21.30   21.30   21.30   29.60   29.60
SO BUILDHGT ASDRYVSC   29.60   29.60   29.60   29.60   21.30   29.60
SO BUILDHGT ASDRYVSC   29.60   21.30   23.50   23.50   23.50   23.50
SO BUILDHGT ASDRYVSC   23.50   21.30   21.30   21.30   29.60   29.60
SO BUILDHGT ASDRYVSC   29.60   29.60   35.40   35.40   35.40   35.40
SO BUILDHGT ASDRYVSC   29.60   21.30   23.50   23.50   23.50   23.50
SO BUILDWID ASDRYVSC   41.21   36.99   36.31   34.53   20.60   20.89
SO BUILDWID ASDRYVSC   20.54   19.57   18.00   15.89   33.31   16.63
SO BUILDWID ASDRYVSC   18.60   21.67   35.82   33.26   29.68   25.20
SO BUILDWID ASDRYVSC   19.95   36.99   36.31   34.53   20.60   20.89
SO BUILDWID ASDRYVSC   20.54   19.57   46.20   51.78   59.52   39.90
SO BUILDWID ASDRYVSC   18.60   21.67   35.82   33.26   29.68   25.20
   LOCATION ASCOOLCY POINT 375416.7 4751577.0 1356
   SRCPARAM ASCOOLCY 1 21.3 311 12.80 0.51
SO BUILDHGT ASCOOLCY   21.30   21.30   21.30   29.60   29.60   29.60
SO BUILDHGT ASCOOLCY   29.60   29.60   29.60   29.60   21.30   29.60
SO BUILDHGT ASCOOLCY   29.60   29.60   29.60   23.50   23.50   23.50
SO BUILDHGT ASCOOLCY   23.50   21.30   21.30   29.60   29.60   29.60
SO BUILDHGT ASCOOLCY   29.60   29.60   35.40   35.40   35.40   35.40
SO BUILDHGT ASCOOLCY   29.60   29.60   29.60   23.50   23.50   23.50
SO BUILDWID ASCOOLCY   41.21   36.99   36.31   19.69   20.60   20.89
SO BUILDWID ASCOOLCY   20.54   19.57   18.00   15.89   33.31   16.63
SO BUILDWID ASCOOLCY   18.60   20.00   20.80   33.26   29.68   25.20
SO BUILDWID ASCOOLCY   19.95   36.99   36.31   19.69   20.60   20.89
SO BUILDWID ASCOOLCY   20.54   19.57   46.20   51.78   59.52   39.90
SO BUILDWID ASCOOLCY   18.60   20.00   20.80   33.26   29.68   25.20
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   LOCATION CEBOILER POINT 375552.6 4751640.0 1356
   SRCPARAM CEBOILER 1 13.7 505 14.5 0.88
SO BUILDHGT CEBOILER   35.40   35.40   25.90   25.90   25.90   25.90
SO BUILDHGT CEBOILER   29.30   29.30   25.90   25.90   29.30   25.90
SO BUILDHGT CEBOILER   25.90   35.40   35.40   25.90   25.90    9.20
SO BUILDHGT CEBOILER   35.40   35.40   25.90   25.90   25.90   25.90
SO BUILDHGT CEBOILER   30.50   30.50   30.50   29.30   29.30   25.90
SO BUILDHGT CEBOILER   25.90   35.40   35.40   35.40   35.40   35.40
SO BUILDWID CEBOILER   59.60   57.35   44.36   47.86   49.91   52.30
SO BUILDWID CEBOILER   63.06   58.42   50.00   46.11   41.92   45.14
SO BUILDWID CEBOILER   46.23   82.70   86.54   30.48   32.13   27.50
SO BUILDWID CEBOILER   76.49   70.07   44.36   47.86   49.91   52.30
SO BUILDWID CEBOILER   30.28   30.60   30.00   45.19   41.92   45.14
SO BUILDWID CEBOILER   46.23   82.70   86.54   62.00   63.11   62.30
   LOCATION FWBOILER POINT 375546.2 4751643.0 1356
   SRCPARAM FWBOILER 1 10.7 505 15.1 1.22
SO BUILDHGT FWBOILER   35.40    9.20   12.20   25.90   25.90   25.90
SO BUILDHGT FWBOILER   29.30   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT FWBOILER   25.90   35.40   25.90   25.90   12.20   12.20
SO BUILDHGT FWBOILER   35.40    9.20   12.20   25.90   25.90   25.90
SO BUILDHGT FWBOILER   30.50   30.50   30.50   29.30   29.30   25.90
SO BUILDHGT FWBOILER   25.90   35.40   35.40   35.40   35.40   35.40
SO BUILDWID FWBOILER   59.60   23.90   14.41   47.86   49.91   52.30
SO BUILDWID FWBOILER   63.06   52.37   50.00   46.11   42.69   45.14
SO BUILDWID FWBOILER   46.23   82.70   27.91   30.48   16.93   15.60
SO BUILDWID FWBOILER   76.49   23.90   14.41   47.86   49.91   52.30
SO BUILDWID FWBOILER   30.28   30.60   30.00   45.19   41.92   45.14
SO BUILDWID FWBOILER   46.23   82.70   59.00   62.00   63.11   62.30
   LOCATION KEBOILER POINT 375554.0 4751660.0 1356
   SRCPARAM KEBOILER 1 13.7 505 15.0 1.22
SO BUILDHGT KEBOILER   35.40    9.20   12.20   12.20   25.90   25.90
SO BUILDHGT KEBOILER   25.90   29.30   25.90   25.90   25.90   25.90
SO BUILDHGT KEBOILER   29.30   25.90   25.90   25.90   25.90   25.90
SO BUILDHGT KEBOILER    9.20    9.20   12.20   12.20   25.90   25.90
SO BUILDHGT KEBOILER   25.90   30.50   30.50   29.30   29.30   29.30
SO BUILDHGT KEBOILER   29.30   25.90   35.40   35.40   35.40   35.40
SO BUILDWID KEBOILER   59.60   23.90   14.41   15.95   49.91   52.30
SO BUILDWID KEBOILER   53.14   58.42   50.00   46.11   42.69   45.14
SO BUILDWID KEBOILER   49.79   47.40   27.91   30.48   32.13   32.80
SO BUILDWID KEBOILER   25.35   23.90   14.41   15.95   49.91   52.30
SO BUILDWID KEBOILER   53.14   30.60   30.00   45.19   41.92   46.56
SO BUILDWID KEBOILER   49.79   47.40   86.54   62.00   63.11   62.30
   LOCATION H2ONTWR POINT 375779.4 4751530.0 1356
   SRCPARAM H2ONTWR 1 11.6 297 11.89 8.71
SO BUILDHGT H2ONTWR    16.80   10.70   16.80   16.80   16.80   16.80
SO BUILDHGT H2ONTWR    16.80   16.80   35.40   35.40   11.60   29.30
SO BUILDHGT H2ONTWR    29.30   29.30   16.80   16.80   16.80   16.80
SO BUILDHGT H2ONTWR    16.80   16.80   16.80   16.80   16.80   16.80
SO BUILDHGT H2ONTWR    16.80   16.80   11.60   11.60   11.60   11.60
SO BUILDHGT H2ONTWR    11.60   16.80   16.80   16.80   16.80   16.80
SO BUILDWID H2ONTWR   158.99   26.70  160.86  161.34  156.92  147.72
SO BUILDWID H2ONTWR   134.04  116.29   46.20   51.78   22.81   46.56
SO BUILDWID H2ONTWR    49.79   52.95  141.12  152.73  159.69  161.80
SO BUILDWID H2ONTWR   158.99  155.50  160.86  161.34  156.92  147.72
SO BUILDWID H2ONTWR   134.04  116.29   21.00   21.23   22.81   23.70
SO BUILDWID H2ONTWR    22.96  125.23  141.12  152.73  159.69  161.80
   LOCATION H2OETWR POINT 375816.8 4751488.0 1356
   SRCPARAM H2OETWR 1 10.7 297 11.89 10.66
SO BUILDHGT H2OETWR    11.60   11.60   11.60   11.60   11.60   11.60
SO BUILDHGT H2OETWR    11.60   11.60   11.60   11.60   11.60   11.60
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SO BUILDHGT H2OETWR    11.60   11.60   11.60   11.60   11.60   11.60
SO BUILDHGT H2OETWR    11.60   11.60   11.60   11.60   11.60   11.60
SO BUILDHGT H2OETWR    11.60   11.60   11.60   11.60   11.60   11.60
SO BUILDHGT H2OETWR    11.60   11.60   11.60   11.60   11.60   11.60
SO BUILDWID H2OETWR    37.87   37.47   38.23   37.83   36.28   33.62
SO BUILDWID H2OETWR    29.94   25.36   20.00   14.04   11.15   17.32
SO BUILDWID H2OETWR    22.96   23.32   22.06   35.12   37.17   38.10
SO BUILDWID H2OETWR    37.87   37.47   38.23   37.83   36.28   33.62
SO BUILDWID H2OETWR    29.94   25.36   20.00   14.04   11.15   17.32
SO BUILDWID H2OETWR    22.96   27.90   32.00   35.12   37.17   38.10
   LOCATION H2OWTWR POINT 375781.3 4751497.0 1356
   SRCPARAM H2OWTWR 1 11.6 297 11.89 10.66
SO BUILDHGT H2OWTWR    10.70   10.70   10.70   10.70   10.70   10.70
SO BUILDHGT H2OWTWR    11.60   11.60   11.60   11.60   11.60   11.60
SO BUILDHGT H2OWTWR    11.60   10.70   11.60   11.60   11.60   11.60
SO BUILDHGT H2OWTWR    11.60   10.70   10.70   10.70   10.70   10.70
SO BUILDHGT H2OWTWR    11.60   11.60   11.60   11.60   11.60   11.60
SO BUILDHGT H2OWTWR    11.60   10.70   11.60   11.60   10.70   10.70
SO BUILDWID H2OWTWR    26.66   26.70   28.12   28.68   28.37   27.20
SO BUILDWID H2OWTWR    29.94   25.36   20.00   14.04   11.15   17.32
SO BUILDWID H2OWTWR    22.96   23.07   22.06   20.12   17.58   14.50
SO BUILDWID H2OWTWR    10.98   26.70   28.12   28.68   28.37   27.20
SO BUILDWID H2OWTWR    29.94   25.36   20.00   14.04   11.15   17.32
SO BUILDWID H2OWTWR    22.96   23.07   22.06   20.12   27.70   27.60
   LOCATION AMMONIA1 POINT 375492.6 4751477.0 1356
   SRCPARAM AMMONIA1 1 18.3 505 20.0 1.22
SO BUILDHGT AMMONIA1     .00   35.40   35.40   35.40   35.40   35.40
SO BUILDHGT AMMONIA1   35.40   24.40   24.40     .00     .00     .00
SO BUILDHGT AMMONIA1     .00     .00     .00     .00     .00     .00
SO BUILDHGT AMMONIA1     .00   35.40   35.40   35.40   35.40   35.40
SO BUILDHGT AMMONIA1   35.40   24.40   24.40   22.90   22.90   22.90
SO BUILDHGT AMMONIA1   22.90     .00     .00     .00     .00     .00
SO BUILDWID AMMONIA1     .00   57.35   58.45   57.78   55.35   51.24
SO BUILDWID AMMONIA1   45.57   94.07   93.00     .00     .00     .00
SO BUILDWID AMMONIA1     .00     .00     .00     .00     .00     .00
SO BUILDWID AMMONIA1     .00   57.35   58.45   57.78   55.35   51.24
SO BUILDWID AMMONIA1   45.57   59.89   60.00   24.98   25.07   25.99
SO BUILDWID AMMONIA1   26.11     .00     .00     .00     .00     .00
   LOCATION AMMONIA2 POINT 375477.3 4751430.0 1356
   SRCPARAM AMMONIA2 1 18.3 505 20.0 1.22
SO BUILDHGT AMMONIA2     .00     .00     .00     .00     .00     .00
SO BUILDHGT AMMONIA2     .00     .00     .00     .00     .00     .00
SO BUILDHGT AMMONIA2     .00     .00     .00     .00     .00     .00
SO BUILDHGT AMMONIA2     .00   35.40   35.40   35.40   35.40   24.40
SO BUILDHGT AMMONIA2   24.40   22.90   22.90     .00     .00     .00
SO BUILDHGT AMMONIA2     .00     .00     .00     .00     .00     .00
SO BUILDWID AMMONIA2     .00     .00     .00     .00     .00     .00
SO BUILDWID AMMONIA2     .00     .00     .00     .00     .00     .00
SO BUILDWID AMMONIA2     .00     .00     .00     .00     .00     .00
SO BUILDWID AMMONIA2     .00   57.35   58.45   57.78   55.35   56.37
SO BUILDWID AMMONIA2   57.95   26.23   26.00     .00     .00     .00
SO BUILDWID AMMONIA2     .00     .00     .00     .00     .00     .00
   LOCATION SPA POINT 375406.6 4751686.0 1356
   SRCPARAM SPA 1 10.68 311 9.55 0.076
SO BUILDHGT SPA        23.50   16.20   16.20   16.20   16.20   16.20
SO BUILDHGT SPA        16.20   16.20   16.20   16.20   16.20   18.30
SO BUILDHGT SPA        18.30   23.50   23.50   23.50   23.50   23.50
SO BUILDHGT SPA        23.50   16.20   16.20   16.20   16.20   16.20
SO BUILDHGT SPA        16.20   16.20   16.20   16.20   16.20   13.70
SO BUILDHGT SPA        13.70   23.50   23.50   23.50   23.50   23.50
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SO BUILDWID SPA        19.96  170.33  173.06  170.52  162.81  150.14
SO BUILDWID SPA       132.92  111.66   87.00   59.70   67.00   18.76
SO BUILDWID SPA        21.69   37.30   35.82   33.26   29.68   25.20
SO BUILDWID SPA        19.95  170.33  173.06  170.52  162.81  150.14
SO BUILDWID SPA       132.92  111.66   87.00   59.70   67.00   13.59
SO BUILDWID SPA        14.35   37.30   35.82   33.26   29.68   25.20
   LOCATION TANKFARM POINT 375635.3 4751644.6 1356
   SRCPARAM TANKFARM 1 35.05 300 10.06 0.91
SO BUILDHGT TANKFARM   35.40   35.40   35.40   35.40   35.40   30.50
SO BUILDHGT TANKFARM   30.50   30.50   30.50   29.30   29.30   29.30
SO BUILDHGT TANKFARM   29.30   29.30   29.30   29.30   29.30   29.30
SO BUILDHGT TANKFARM   29.30   29.30   29.30   29.30   29.30   30.50
SO BUILDHGT TANKFARM   30.50   30.50   30.50   29.30   29.30   29.30
SO BUILDHGT TANKFARM   29.30   29.30   29.30   29.30   29.30   29.30
SO BUILDWID TANKFARM   76.49   57.35   58.45   57.78   55.35   29.03
SO BUILDWID TANKFARM   30.28   30.60   30.00   45.19   41.92   46.56
SO BUILDWID TANKFARM   49.79   52.95   56.24   57.81   57.63   55.70
SO BUILDWID TANKFARM   54.63   56.78   61.94   65.22   66.51   29.03
SO BUILDWID TANKFARM   30.28   30.60   30.00   45.19   41.92   46.56
SO BUILDWID TANKFARM   49.79   52.95   56.24   57.81   57.63   55.70
** BAPCO SOURCES
   LOCATION COKESCRU POINT 373613.5 4750914.0 1360
   SRCPARAM COKESCRU 1 12.8 316.5 24.26 1.22
SO BUILDHGT COKESCRU 36*7.0
SO BUILDWID COKESCRU 36*45.7
   LOCATION COKEBH POINT 373613.5 4750914.0 1360
   SRCPARAM COKEBH 1 7.6 333.2 21.56 0.91
SO BUILDHGT COKEBH   36*7.0
SO BUILDWID COKEBH   36*45.7
   LOCATION DRUMBH POINT 373839.9 4751273.0 1360
   SRCPARAM DRUMBH 1 10.7 422 30.1 1.07
SO BUILDHGT DRUMBH   36*10.0
SO BUILDWID DRUMBH   36*7.6
** FMC SOURCES LISTED IN ORDER OF APPEARANCE IN THE PM10 INVENTORY
   SRCGROUP G1  ESHALEBH
   SRCGROUP G2  MSHALEBH
   SRCGROUP G3  WSHALEBH
   SRCGROUP G4  CS1_1
   SRCGROUP G5  CS1_2
   SRCGROUP G6  CS2_1
   SRCGROUP G7  CS2_2
   SRCGROUP G8  CV1_1
   SRCGROUP G9  CV1_2
   SRCGROUP G10 CV2_1
   SRCGROUP G11 CV2_2
   SRCGROUP G12 DISCSBH
   SRCGROUP G13 DISCNBH
   SRCGROUP G14 ENODULEB
   SRCGROUP G15 WNODULEB
   SRCGROUP G16 STOCKPIL
   SRCGROUP G17 DUSTSILO
   SRCGROUP G18 EBURDEN
   SRCGROUP G19 WBURDEN
   SRCGROUP G20 COKEBAGH
   SRCGROUP G21 PHOSDOCK
   SRCGROUP G22 BOILER3
   SRCGROUP G23 BOILER4
   SRCGROUP G24 1FURTAPH
   SRCGROUP G25 2FURTAPH
   SRCGROUP G26 3FURTAPH
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   SRCGROUP G27 4FURTAPH
   SRCGROUP G28 FUR1PRV
   SRCGROUP G29 FUR2PRV
   SRCGROUP G30 FUR3PRV
   SRCGROUP G31 FUR4PRV
   SRCGROUP G32 FUR1COF
   SRCGROUP G33 FUR2COF
   SRCGROUP G34 FUR3COF
   SRCGROUP G35 FUR4COF
   SRCGROUP G36 SECFLARE
   SRCGROUP G37 COFLARE
** SIMPLOT SOURCES LISTED IN ORDER OF APPEARANCE IN THE INVENTORY
   SRCGROUP G38 PHOSACID
   SRCGROUP G39 GRAN1RNG
   SRCGROUP G40 GRAN1BAG
   SRCGROUP G41 GRAN1DRY
   SRCGROUP G42 GRAN2TGS
   SRCGROUP G43 GRAN2COL
   SRCGROUP G44 GRAN3
   SRCGROUP G45 ASDRYVSC
   SRCGROUP G46 ASCOOLCY
   SRCGROUP G47 CEBOILER
   SRCGROUP G48 FWBOILER
   SRCGROUP G49 KEBOILER
   SRCGROUP G50 H2ONTWR
   SRCGROUP G51 H2OETWR
   SRCGROUP G52 H2OWTWR
   SRCGROUP G53 AMMONIA1
   SRCGROUP G54 AMMONIA2
   SRCGROUP G55 SPA
   SRCGROUP G56 TANKFARM
** BAPCO SOURCES LISTED IN ORDER OF APPEARANCE IN THE INVENTORY
   SRCGROUP G57 COKESCRU
   SRCGROUP G58 COKEBH
   SRCGROUP G59 DRUMBH
SO FINISHED

RE STARTING
** CARTIESAN GRID IDENTICAL WITH FDM GRID
   DISCCART 376200 4752100 1341
   DISCCART 375000 4751800 1356
   DISCCART 377900 4754300 1362
   DISCCART 377950 4751300 1356
   DISCCART 371650 4748400 1387
   DISCCART 357000 4743000 1353
   DISCCART 376450 4750540 1470
   DISCCART 364700 4746700 1370
   DISCCART 364700 4758700 1325
   DISCCART 366700 4742700 1372
   DISCCART 366700 4758700 1325
   DISCCART 370700 4747700 1402
   DISCCART 370700 4748700 1400
   DISCCART 370700 4749700 1359
   DISCCART 370700 4750700 1356
   DISCCART 370700 4751700 1353
   DISCCART 370700 4752700 1353
   DISCCART 370700 4754700 1347
   DISCCART 371760 4750600 1356
   DISCCART 372700 4746700 1475
   DISCCART 372700 4747700 1432
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DISCCART	372700	4748700	1463
DISCCART	372700	4749700	1379
DISCCART	372700	4751700	1356
DISCCART	372700	4752700	1353
DISCCART	372700	4753700	1350
DISCCART	372700	4754700	1338
DISCCART	373200	4749200	1369
DISCCART	373200	4750200	1375
DISCCART	373200	4751200	1356
DISCCART	373200	4752200	1356
DISCCART	373700	4748700	1436
DISCCART	373700	4749700	1412
DISCCART	373700	4751700	1357
DISCCART	374200	4749200	1448
DISCCART	374200	4752200	1356
DISCCART	374700	4748700	1630
DISCCART	374700	4749700	1408
DISCCART	374700	4751700	1356
DISCCART	374700	4752700	1350
DISCCART	374700	4753700	1350
DISCCART	374700	4754700	1362
DISCCART	375200	4749200	1600
DISCCART	375200	4752200	1356
DISCCART	375700	4749700	1692
DISCCART	375700	4751700	1430
DISCCART	376200	4749200	1624
DISCCART	376300	4752400	1356
DISCCART	376700	4749700	1524
DISCCART	376700	4750700	1463
DISCCART	376700	4751700	1347
DISCCART	376700	4752700	1350
DISCCART	376700	4753700	1362
DISCCART	376700	4754700	1356
DISCCART	376700	4758700	1356
DISCCART	377200	4752200	1356
DISCCART	378700	4747700	1524
DISCCART	378700	4748700	1414
DISCCART	378700	4749700	1390
DISCCART	378700	4750700	1356
DISCCART	378700	4751700	1353
DISCCART	378700	4752700	1362
DISCCART	378700	4753700	1359
DISCCART	378700	4754700	1362
DISCCART	379400	4753600	1365
DISCCART	380700	4746700	1360
DISCCART	380700	4748700	1360
DISCCART	380700	4750700	1362
DISCCART	380700	4752700	1362
DISCCART	380700	4754700	1359
DISCCART	380700	4756700	1359
DISCCART	380700	4758700	1325
DISCCART	380889	4747781	1384
DISCCART	382700	4748700	1375
DISCCART	382700	4750700	1411
DISCCART	382700	4752700	1417
DISCCART	382700	4754700	1395
DISCCART	382700	4756700	1408
DISCCART	382700	4758700	1364
DISCCART	382800	4746400	1359
DISCCART	360000	4745000	1364

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   DISCCART 360000  4750000     1364
   DISCCART 364700  4750700     1350
   DISCCART 364700  4754700     1347
   DISCCART 366700  4756700     1322
   DISCCART 370700  4758700     1325
   DISCCART 368700  4752700     1350
   DISCCART 372700  4756700     1356
   DISCCART 368700  4744700     1390
   DISCCART 368700  4748700     1356
** extra receptors for sites 1, 2, and 7
   DISCCART 376150  4752050     1341
   DISCCART 376200  4752050     1341
   DISCCART 376250  4752050     1341
   DISCCART 376100  4752100     1341
   DISCCART 376150  4752100     1341
   DISCCART 376250  4752100     1341
   DISCCART 376150  4752150     1341
   DISCCART 376200  4752150     1341
   DISCCART 376250  4752150     1341
   DISCCART 374900  4751750     1356
   DISCCART 374950  4751775     1356
   DISCCART 375000  4751790     1356
   DISCCART 375050  4751775     1356
   DISCCART 375100  4751775     1356
   DISCCART 375050  4751800     1356
   DISCCART 375100  4751800     1356
   DISCCART 374950  4751850     1356
   DISCCART 375000  4751850     1356
   DISCCART 375050  4751850     1356
   DISCCART 375100  4751850     1356
   DISCCART 376400  4750490     1462
   DISCCART 376450  4750490     1466
   DISCCART 376500  4750490     1472
   DISCCART 376400  4750540     1465
   DISCCART 376500  4750540     1472
   DISCCART 376550  4750540     1472
   DISCCART 376400  4750590     1463
   DISCCART 376450  4750590     1465
   DISCCART 376500  4750590     1466
   DISCCART 376450  4750640     1457
RE FINISHED

ME STARTING
   INPUTFIL s19394xx.bin unform
   ANEMHGHT 62 FEET
   SURFDATA     1 1993 Site1
   UAIRDATA     1 1993 Site1
   dayrange 1-365
ME FINISHED

OU STARTING
**  REMEMBER TO CHANGE THE YEAR NUMBER FOR THE POSTFILE
   RECTABLE ALLAVE FIRST
   POSTFILE 1 G1 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G2 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G3 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G4 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G5 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G6 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G7 UNFORM IP93MU02.1HR 22
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   POSTFILE 1 G8 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G9 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G10 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G11 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G12 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G13 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G14 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G15 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G16 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G17 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G18 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G19 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G20 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G21 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G22 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G23 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G24 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G25 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G26 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G27 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G28 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G29 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G30 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G31 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G32 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G33 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G34 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G35 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G36 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G37 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G38 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G39 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G40 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G41 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G42 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G43 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G44 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G45 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G46 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G47 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G48 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G49 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G50 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G51 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G52 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G53 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G54 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G55 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G56 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G57 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G58 UNFORM IP93MU02.1HR 22
   POSTFILE 1 G59 UNFORM IP93MU02.1HR 22
OU FINISHED
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Mode: InterISC
CO STARTING
   TITLEONE Unit rate 1 g/s;ISC & FDM part 1, 1993 ANNUAL EI (rev.6/27/95)
   MODELOPT RURAL CONC
   AVERTIME 1
   POLLUTID ALL
   TERRHGTS ELEV
   RUNORNOT run
CO FINISHED
NO ECHO

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

*** MODELING OPTIONS USED: CONC   RURAL ELEV

*** MODEL SETUP OPTIONS SUMMARY ***

- -

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

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Final 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 Assumes No FLAGPOLE Receptor Heights.

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

**This Run Includes: 59 Source(s); 59 Source Group(s); and 120 Receptor(s)

**The Model Assumes A Pollutant Type of: ALL

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

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of Concurrent Values for Postprocessing (POSTFILE 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) = 18.90 ; Decay Coef. = .0000 ; Rot. Angle = .0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = .10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: if93an0.inp ; **Output Print File: if93an0.out

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
ESHALEBH	0	.10000E+01	374603.1	4751600.0	1363.0	4.00	294.30	8.73	.41	YES	
MSHALEBH	0	.10000E+01	374525.8	4751574.0	1363.0	5.50	294.30	10.35	.76	YES	
WSHALEBH	0	.10000E+01	374479.0	4751561.0	1363.0	11.30	294.30	18.50	.74	YES	
CS1_1	0	.10000E+01	374576.7	4751345.0	1363.0	27.40	327.60	5.71	3.16	YES	
CS1_2	0	.10000E+01	374569.3	4751335.0	1363.0	27.40	327.60	5.71	3.16	YES	
CS2_1	0	.10000E+01	374579.9	4751285.0	1363.0	27.40	327.60	6.24	3.16	YES	
CS2_2	0	.10000E+01	374573.8	4751276.0	1363.0	27.40	327.60	6.24	3.16	YES	
CV1_1	0	.10000E+01	374561.4	4751354.0	1363.0	12.80	588.70	7.28	1.72	YES	
CV1_2	0	.10000E+01	374560.0	4751354.0	1363.0	12.80	477.60	7.28	1.72	YES	
CV2_1	0	.10000E+01	374581.8	4751303.0	1363.0	12.50	588.70	8.98	1.83	YES	
CV2_2	0	.10000E+01	374572.5	4751300.0	1363.0	12.50	477.60	8.08	1.83	YES	
DISCSBH	0	.10000E+01	374625.7	4751367.0	1363.0	6.40	305.40	24.25	.61	YES	
DISCNBH	0	.10000E+01	374623.4	4751375.0	1363.0	6.40	305.40	24.25	.61	YES	
ENODULEB	0	.10000E+01	374558.4	4751453.0	1363.0	12.80	294.30	15.09	.91	YES	
WNODULEB	0	.10000E+01	374535.8	4751448.0	1363.0	12.80	294.30	15.09	.91	YES	
STOCKPIL	0	.10000E+01	374610.9	4751430.0	1363.0	3.50	294.30	15.65	.88	YES	
DUSTSILO	0	.10000E+01	374448.4	4751426.0	1363.0	20.90	294.30	15.81	.91	YES	
EBURDEN	0	.10000E+01	374397.0	4751386.0	1363.0	34.10	294.30	20.69	1.52	YES	
WBURDEN	0	.10000E+01	374380.7	4751381.0	1363.0	34.10	294.30	20.69	1.52	YES	
COKEBAGH	0	.10000E+01	374545.0	4751455.0	1363.0	12.80	294.30	15.09	.91	YES	
PHOSDOCK	0	.10000E+01	374400.2	4751468.0	1363.0	15.20	305.40	11.00	1.17	YES	
BOILER3	0	.10000E+01	374443.0	4751474.0	1363.0	9.80	422.00	2.67	1.01	YES	
BOILER4	0	.10000E+01	374439.7	4751485.0	1363.0	9.80	422.00	2.67	1.01	YES	
1FURTAPH	0	.10000E+01	374419.9	4751411.0	1363.0	34.00	294.30	16.17	1.22	YES	
2FURTAPH	0	.10000E+01	374420.9	4751410.0	1363.0	34.00	294.30	16.17	1.22	YES	
3FURTAPH	0	.10000E+01	374355.1	4751391.0	1363.0	34.00	294.30	16.17	1.22	YES	
4FURTAPH	0	.10000E+01	374356.8	4751390.0	1363.0	34.00	294.30	16.17	1.22	YES	
FUR1PRV	0	.10000E+01	374424.3	4751409.0	1363.0	41.00	773.20	5.69	.76	YES	
FUR2PRV	0	.10000E+01	374421.6	4751408.0	1363.0	41.00	773.20	5.69	.76	YES	
FUR3PRV	0	.10000E+01	374360.3	4751389.0	1363.0	41.00	773.20	5.69	.76	YES	
FUR4PRV	0	.10000E+01	374357.7	4751388.0	1363.0	41.00	773.20	5.69	.76	YES	
FUR1COF	0	.10000E+01	374444.8	4751416.0	1363.0	38.70	1273.20	20.00	1.43	YES	
FUR2COF	0	.10000E+01	374391.3	4751398.0	1363.0	38.70	1273.20	20.00	1.43	YES	
FUR3COF	0	.10000E+01	374390.9	4751398.0	1363.0	38.70	1273.20	20.00	1.43	YES	
FUR4COF	0	.10000E+01	374336.9	4751382.0	1363.0	38.70	1273.20	20.00	1.43	YES	
SECFLARE	0	.10000E+01	374498.7	4751402.0	1363.0	36.70	1273.20	20.00	.97	YES	
COFLARE	0	.10000E+01	374639.6	4751324.0	1363.0	4.00	1273.20	20.00	.72	YES	
PHOSACID	0	.10000E+01	375616.5	4751615.0	1356.0	54.60	311.00	15.30	1.83	YES	
GRAN1RNG	0	.10000E+01	375412.8	4751633.0	1356.0	29.90	350.00	17.03	.89	YES	
GRAN1BAG	0	.10000E+01	375416.3	4751638.0	1356.0	29.90	341.00	15.50	.76	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
GRAN1DRY	0	.10000E+01	375413.2	4751639.0	1356.0	29.90	332.00	16.99	1.19	YES	
GRAN2TGS	0	.10000E+01	375401.1	4751567.0	1356.0	45.70	311.00	12.70	1.83	YES	
GRAN2COL	0	.10000E+01	375395.9	4751603.0	1356.0	18.30	331.00	18.65	.91	YES	
GRAN3	0	.10000E+01	375676.6	4751603.0	1356.0	53.30	324.00	11.00	1.83	YES	
ASDRYVSC	0	.10000E+01	375421.8	4751575.0	1356.0	23.20	311.00	14.90	.51	YES	
ASCOOLCY	0	.10000E+01	375416.7	4751577.0	1356.0	21.30	311.00	12.80	.51	YES	
CEBOILER	0	.10000E+01	375552.6	4751640.0	1356.0	13.70	505.00	14.50	.88	YES	
FWBOILER	0	.10000E+01	375546.2	4751643.0	1356.0	10.70	505.00	15.10	1.22	YES	
KEBOILER	0	.10000E+01	375554.0	4751660.0	1356.0	13.70	505.00	15.00	1.22	YES	
H2ONTWR	0	.10000E+01	375779.4	4751530.0	1356.0	11.60	297.00	11.89	8.71	YES	
H2OETWR	0	.10000E+01	375816.8	4751488.0	1356.0	10.70	297.00	11.89	10.66	YES	
H2OWTWR	0	.10000E+01	375781.3	4751497.0	1356.0	11.60	297.00	11.89	10.66	YES	
AMMONIA1	0	.10000E+01	375492.6	4751477.0	1356.0	18.30	505.00	20.00	1.22	YES	
AMMONIA2	0	.10000E+01	375477.3	4751430.0	1356.0	18.30	505.00	20.00	1.22	YES	
SPA	0	.10000E+01	375406.6	4751686.0	1356.0	10.68	311.00	9.55	.08	YES	
TANKFARM	0	.10000E+01	375635.3	4751645.0	1356.0	35.05	300.00	10.06	.91	YES	
COKESCRU	0	.10000E+01	373613.5	4750914.0	1360.0	12.80	316.50	24.26	1.22	YES	
COKEBH	0	.10000E+01	373613.5	4750914.0	1360.0	7.60	333.20	21.56	.91	YES	
DRUMBH	0	.10000E+01	373839.9	4751273.0	1360.0	10.70	422.00	30.10	1.07	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
G1	ESHALEBH,
G2	MSHALEBH,
G3	WSHALEBH,
G4	CS1_1 ,
G5	CS1_2 ,
G6	CS2_1 ,
G7	CS2_2 ,
G8	CV1_1 ,
G9	CV1_2 ,
G10	CV2_1 ,
G11	CV2_2 ,
G12	DISCSBH ,
G13	DISCNBH ,
G14	ENODULEB,
G15	WNODULEB,
G16	STOCKPIL,

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
G22	BOILER3 ,
G23	BOILER4 ,
G24	1FURTAPH,
G25	2FURTAPH,
G26	3FURTAPH,
G27	4FURTAPH,
G28	FUR1PRV ,
G29	FUR2PRV ,
G30	FUR3PRV ,
G31	FUR4PRV ,
G32	FUR1COF ,
G33	FUR2COF ,
G34	FUR3COF ,
G35	FUR4COF ,
G36	SECFLARE,
G37	COFLARE ,

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
G43	GRAN2COL,
G44	GRAN3 ,
G45	ASDRYVSC,
G46	ASCOOLCY,
G47	CEBOILER,
G48	FWBOILER,
G49	KEBOILER,
G50	H2ONTWR ,
G51	H2OETWR ,
G52	H2OWTWR ,
G53	AMMONIA1,
G54	AMMONIA2,
G55	SPA ,
G56	TANKFARM,
G57	COKESCRU,
G58	COKEBH ,

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: ESHALEBH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	12.2,	456.1,	0	2	12.2,	423.5,	0	3	12.2,	378.0,	0	4	12.2,	321.0,	0	5	29.0,	43.3,	0	6	29.0,	45.1,	0
7	29.0,	45.5,	0	8	12.2,	67.1,	0	9	12.2,	148.4,	0	10	12.2,	225.2,	0	11	12.2,	295.1,	0	12	12.2,	356.1,	0
13	12.2,	406.3,	0	14	12.2,	444.1,	0	15	12.2,	468.4,	0	16	12.2,	478.5,	0	17	12.2,	479.1,	0	18	12.2,	474.8,	0
19	12.2,	456.1,	0	20	12.2,	423.5,	0	21	12.2,	378.0,	0	22	12.2,	321.0,	0	23	12.2,	254.3,	0	24	12.2,	179.9,	0
25	12.2,	100.0,	0	26	12.2,	67.1,	0	27	12.2,	148.4,	0	28	12.2,	225.2,	0	29	12.2,	295.1,	0	30	12.2,	356.1,	0
31	12.2,	406.3,	0	32	12.2,	444.1,	0	33	12.2,	468.4,	0	34	12.2,	478.5,	0	35	12.2,	479.1,	0	36	12.2,	474.8,	0

SOURCE ID: MSHALEBH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	25.2,	17.4,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	29.0,	45.1,	0
7	29.0,	45.5,	0	8	29.0,	45.3,	0	9	29.0,	44.3,	0	10	21.5,	51.5,	0	11	25.2,	17.3,	0	12	25.2,	17.2,	0
13	25.2,	16.9,	0	14	25.2,	16.8,	0	15	25.2,	16.2,	0	16	25.2,	15.2,	0	17	25.2,	15.9,	0	18	25.2,	16.9,	0
19	25.2,	17.4,	0	20	29.0,	30.5,	0	21	29.0,	35.9,	0	22	29.0,	40.2,	0	23	29.0,	43.3,	0	24	29.0,	45.1,	0
25	29.0,	45.5,	0	26	29.0,	45.3,	0	27	29.0,	44.3,	0	28	21.5,	51.5,	0	29	25.2,	17.3,	0	30	25.2,	17.2,	0
31	25.2,	16.9,	0	32	25.2,	16.8,	0	33	25.2,	16.2,	0	34	25.2,	15.2,	0	35	25.2,	15.9,	0	36	25.2,	16.9,	0

SOURCE ID: WSHALEBH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	29.0,	43.3,	0	6	29.0,	45.1,	0
7	29.0,	45.5,	0	8	29.0,	45.3,	0	9	29.0,	44.3,	0	10	29.0,	41.9,	0	11	29.0,	38.2,	0	12	29.0,	33.4,	0
13	29.0,	27.6,	0	14	29.0,	20.9,	0	15	29.0,	13.6,	0	16	29.0,	5.9,	0	17	21.5,	15.3,	0	18	29.0,	17.1,	0
19	29.0,	24.2,	0	20	29.0,	30.5,	0	21	29.0,	35.9,	0	22	29.0,	40.2,	0	23	29.0,	43.3,	0	24	29.0,	45.1,	0
25	29.0,	45.5,	0	26	29.0,	45.3,	0	27	29.0,	44.3,	0	28	29.0,	41.9,	0	29	29.0,	38.2,	0	30	29.0,	33.4,	0
31	29.0,	27.6,	0	32	29.0,	20.9,	0	33	29.0,	13.6,	0	34	29.0,	5.9,	0	35	28.3,	176.3,	0	36	28.3,	172.4,	0

SOURCE ID: CS1_1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	21.7,	17.8,	0	2	21.7,	19.7,	0	3	21.7,	21.0,	0	4	21.7,	21.7,	0	5	21.7,	21.7,	0	6	21.7,	21.0,	0
7	21.7,	19.7,	0	8	21.7,	20.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	28.3,	159.5,	0	14	28.3,	170.3,	0	15	24.7,	40.3,	0	16	24.7,	38.7,	0	17	24.7,	39.6,	0	18	24.7,	40.6,	0
19	21.7,	17.8,	0	20	21.7,	19.7,	0	21	21.7,	21.0,	0	22	21.7,	21.7,	0	23	21.7,	21.7,	0	24	21.7,	21.0,	0
25	21.7,	19.7,	0	26	21.7,	20.1,	0	27	21.7,	21.0,	0	28	21.7,	21.3,	0	29	21.7,	21.0,	0	30	21.7,	20.0,	0
31	21.7,	18.4,	0	32	18.9,	66.1,	0	33	18.9,	64.4,	0	34	18.9,	60.8,	0	35	18.9,	64.8,	0	36	18.9,	69.9,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: CS1_2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	21.7,	17.8,	0	2	21.7,	19.7,	0	3	21.7,	21.0,	0	4	21.7,	21.7,	0	5	21.7,	21.7,	0	6	21.7,	21.0,	0
7	21.7,	19.7,	0	8	21.7,	20.1,	0	9	21.7,	21.0,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	28.3,	170.3,	0	15	20.9,	73.8,	0	16	24.7,	38.7,	0	17	24.7,	39.6,	0	18	24.7,	40.6,	0
19	24.7,	40.3,	0	20	21.7,	19.7,	0	21	21.7,	21.0,	0	22	21.7,	21.7,	0	23	21.7,	21.7,	0	24	21.7,	21.0,	0
25	21.7,	19.7,	0	26	21.7,	20.1,	0	27	21.7,	21.0,	0	28	21.7,	21.3,	0	29	21.7,	21.0,	0	30	18.9,	129.1,	0
31	18.9,	85.4,	0	32	18.9,	66.1,	0	33	18.9,	64.4,	0	34	9.4,	36.0,	0	35	18.9,	138.4,	0	36	18.9,	139.2,	0

SOURCE ID: CS2_1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	6.2,	79.3,	0	2	9.4,	39.4,	0	3	9.4,	37.8,	0	4	9.4,	35.0,	0	5	9.4,	31.2,	0	6	9.4,	26.4,	0
7	9.4,	20.9,	0	8	9.4,	23.1,	0	9	9.4,	28.4,	0	10	9.4,	32.8,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	24.2,	56.2,	0	16	6.2,	36.5,	0	17	6.2,	37.1,	0	18	21.7,	15.4,	0
19	21.7,	17.8,	0	20	21.7,	19.7,	0	21	9.4,	37.8,	0	22	9.4,	35.0,	0	23	9.4,	31.2,	0	24	9.4,	26.4,	0
25	9.4,	20.9,	0	26	9.4,	23.1,	0	27	9.4,	28.4,	0	28	9.4,	32.8,	0	29	9.4,	36.3,	0	30	9.4,	38.6,	0
31	9.4,	39.8,	0	32	9.4,	39.7,	0	33	.0,	.0,	0	34	.0,	.0,	0	35	.0,	.0,	0	36	6.2,	83.0,	0

SOURCE ID: CS2_2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	9.2,	46.6,	0	2	9.2,	43.7,	0	3	18.9,	120.8,	0	4	6.2,	54.7,	0	5	6.2,	42.8,	0	6	5.9,	17.2,	0
7	5.9,	15.8,	0	8	.0,	.0,	0	9	.0,	.0,	0	10	.0,	.0,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	24.2,	48.7,	0	17	24.2,	49.6,	0	18	18.9,	139.2,	0
19	18.9,	135.8,	0	20	18.9,	128.3,	0	21	21.7,	21.0,	0	22	21.7,	21.7,	0	23	6.2,	42.8,	0	24	.0,	.0,	0
25	.0,	.0,	0	26	.0,	.0,	0	27	.0,	.0,	0	28	.0,	.0,	0	29	.0,	.0,	0	30	9.2,	41.6,	0
31	9.2,	45.3,	0	32	9.2,	47.6,	0	33	9.2,	48.4,	0	34	.0,	.0,	0	35	.0,	.0,	0	36	9.2,	48.1,	0

SOURCE ID: CV1_1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	18.9,	72.9,	0	2	18.9,	73.7,	0	3	18.9,	72.2,	0	4	18.9,	68.6,	0	5	21.7,	21.7,	0	6	21.7,	21.0,	0
7	21.7,	19.7,	0	8	24.2,	55.5,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	28.3,	159.5,	0	14	28.3,	170.3,	0	15	20.9,	73.8,	0	16	24.7,	38.7,	0	17	24.7,	39.6,	0	18	24.7,	40.6,	0
19	24.7,	40.3,	0	20	18.9,	73.7,	0	21	18.9,	72.2,	0	22	18.9,	68.6,	0	23	21.7,	21.7,	0	24	21.7,	21.0,	0
25	21.7,	19.7,	0	26	24.2,	55.5,	0	27	21.7,	21.0,	0	28	21.7,	21.3,	0	29	21.7,	21.0,	0	30	21.7,	20.0,	0
31	21.7,	18.4,	0	32	24.2,	62.0,	0	33	20.9,	73.8,	0	34	18.9,	60.8,	0	35	18.9,	64.8,	0	36	18.9,	69.9,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: CV1_2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	18.9,	72.9,	0	2	18.9,	73.7,	0	3	18.9,	72.2,	0	4	18.9,	68.6,	0	5	21.7,	21.7,	0	6	21.7,	21.0,	0
7	21.7,	19.7,	0	8	24.2,	55.5,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	28.3,	170.3,	0	15	20.9,	73.8,	0	16	24.7,	38.7,	0	17	24.7,	39.6,	0	18	24.7,	40.6,	0
19	24.7,	40.3,	0	20	18.9,	73.7,	0	21	18.9,	72.2,	0	22	18.9,	68.6,	0	23	21.7,	21.7,	0	24	21.7,	21.0,	0
25	21.7,	19.7,	0	26	24.2,	55.5,	0	27	21.7,	21.0,	0	28	21.7,	21.3,	0	29	21.7,	21.0,	0	30	21.7,	20.0,	0
31	21.7,	18.4,	0	32	24.2,	62.0,	0	33	20.9,	73.8,	0	34	18.9,	60.8,	0	35	18.9,	64.8,	0	36	18.9,	69.9,	0

SOURCE ID: CV2_1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	18.9,	135.8,	0	2	21.7,	19.7,	0	3	21.7,	21.0,	0	4	6.2,	28.1,	0	5	.0,	.0,	0	6	.0,	.0,	0
7	.0,	.0,	0	8	9.2,	16.0,	0	9	9.4,	28.4,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	24.2,	62.0,	0	15	24.2,	64.0,	0	16	18.9,	60.8,	0	17	18.9,	64.8,	0	18	18.9,	69.9,	0
19	21.7,	17.8,	0	20	21.7,	19.7,	0	21	21.7,	21.0,	0	22	18.2,	17.8,	0	23	.0,	.0,	0	24	.0,	.0,	0
25	.0,	.0,	0	26	.0,	.0,	0	27	9.4,	28.4,	0	28	9.4,	32.8,	0	29	18.9,	116.9,	0	30	18.9,	129.1,	0
31	9.4,	39.8,	0	32	9.4,	39.7,	0	33	9.4,	38.5,	0	34	9.4,	36.0,	0	35	9.4,	37.0,	0	36	6.2,	37.5,	0

SOURCE ID: CV2_2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	18.9,	135.8,	0	2	18.9,	128.3,	0	3	21.7,	21.0,	0	4	21.7,	21.7,	0	5	6.2,	23.3,	0	6	.0,	.0,	0
7	.0,	.0,	0	8	9.4,	23.1,	0	9	9.4,	28.4,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	24.2,	56.2,	0	16	18.9,	60.8,	0	17	18.9,	64.8,	0	18	18.9,	69.9,	0
19	21.7,	17.8,	0	20	21.7,	19.7,	0	21	21.7,	21.0,	0	22	21.7,	21.7,	0	23	6.2,	23.3,	0	24	.0,	.0,	0
25	.0,	.0,	0	26	9.4,	23.1,	0	27	9.4,	28.4,	0	28	9.4,	32.8,	0	29	9.4,	36.3,	0	30	18.9,	129.1,	0
31	9.4,	39.8,	0	32	9.4,	39.7,	0	33	6.2,	37.4,	0	34	6.2,	36.5,	0	35	6.2,	37.1,	0	36	6.2,	37.5,	0

SOURCE ID: DISCSBH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	18.2,	18.7,	0	2	18.2,	18.9,	0	3	18.2,	18.7,	0	4	21.7,	21.7,	0	5	21.7,	21.7,	0	6	21.7,	21.0,	0
7	21.7,	19.7,	0	8	24.2,	55.5,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	28.3,	143.8,	0
13	24.7,	39.9,	0	14	24.7,	40.7,	0	15	24.7,	40.3,	0	16	18.2,	15.4,	0	17	18.2,	16.4,	0	18	18.2,	17.8,	0
19	18.2,	18.7,	0	20	18.2,	18.9,	0	21	18.2,	18.7,	0	22	21.7,	21.7,	0	23	21.7,	21.7,	0	24	21.7,	21.0,	0
25	21.7,	19.7,	0	26	21.7,	20.1,	0	27	21.7,	21.0,	0	28	18.9,	54.3,	0	29	18.9,	59.2,	0	30	18.9,	63.5,	0
31	18.9,	65.8,	0	32	18.9,	66.1,	0	33	18.9,	64.4,	0	34	18.2,	15.4,	0	35	18.2,	16.4,	0	36	18.2,	17.8,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: DISCNBH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	18.2,	18.7,	0	2	18.2,	18.9,	0	3	21.7,	21.0,	0	4	21.7,	21.7,	0	5	21.7,	21.7,	0	6	21.7,	21.0,	0
7	21.7,	19.7,	0	8	24.2,	55.5,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	24.7,	37.8,	0
13	24.7,	39.9,	0	14	24.7,	40.7,	0	15	24.7,	40.3,	0	16	18.2,	15.4,	0	17	18.2,	16.4,	0	18	18.2,	17.8,	0
19	18.2,	18.7,	0	20	18.2,	18.9,	0	21	21.7,	21.0,	0	22	21.7,	21.7,	0	23	21.7,	21.7,	0	24	21.7,	21.0,	0
25	21.7,	19.7,	0	26	21.7,	20.1,	0	27	18.9,	51.5,	0	28	18.9,	54.3,	0	29	18.9,	59.2,	0	30	18.9,	63.5,	0
31	18.9,	65.8,	0	32	18.9,	66.1,	0	33	18.9,	64.4,	0	34	18.2,	15.4,	0	35	18.2,	16.4,	0	36	18.2,	17.8,	0

SOURCE ID: ENODULEB

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	24.7,	40.3,	0	2	24.7,	38.8,	0	3	24.7,	36.1,	0	4	24.7,	32.3,	0	5	24.7,	27.5,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	24.7,	25.2,	0	10	24.7,	30.4,	0	11	24.7,	34.6,	0	12	24.7,	37.8,	0
13	29.0,	27.6,	0	14	24.7,	40.7,	0	15	24.7,	40.3,	0	16	24.7,	38.7,	0	17	24.7,	39.6,	0	18	24.7,	40.6,	0
19	24.7,	40.3,	0	20	24.7,	38.8,	0	21	24.7,	36.1,	0	22	24.7,	32.3,	0	23	24.7,	27.5,	0	24	24.7,	21.9,	0
25	24.7,	15.7,	0	26	24.7,	19.3,	0	27	24.7,	25.2,	0	28	24.7,	30.4,	0	29	24.7,	34.6,	0	30	24.7,	37.8,	0
31	24.7,	39.9,	0	32	24.7,	40.7,	0	33	24.7,	40.3,	0	34	24.7,	38.7,	0	35	24.7,	39.6,	0	36	24.7,	40.6,	0

SOURCE ID: WNODULEB

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WA
1	24.7,	40.3,	0	2	24.7,	38.8,	0	3	24.7,	36.1,	0	4	28.3,	109.8,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	28.3,	75.9,	0	10	24.7,	30.4,	0	11	24.7,	34.6,	0	12	24.7,	37.8,	0
13	24.7,	39.9,	0	14	24.7,	40.7,	0	15	24.7,	40.3,	0	16	24.7,	38.7,	0	17	24.7,	39.6,	0	18	24.7,	40.6,	0
19	24.7,	40.3,	0	20	24.7,	38.8,	0	21	24.7,	36.1,	0	22	28.3,	109.8,	0	23	28.3,	85.1,	0	24	28.3,	58.5,	0
25	28.3,	36.3,	0	26	28.3,	47.9,	0	27	28.3,	75.9,	0	28	24.7,	30.4,	0	29	24.7,	34.6,	0	30	24.7,	37.8,	0
31	24.7,	39.9,	0	32	24.7,	40.7,	0	33	24.7,	40.3,	0	34	24.7,	38.7,	0	35	24.7,	39.6,	0	36	24.7,	40.6,	0

SOURCE ID: STOCKPIL

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	21.7,	17.8,	0	2	21.7,	19.7,	0	3	21.7,	21.0,	0	4	18.9,	68.6,	0	5	18.9,	62.9,	0	6	24.2,	48.3,	0
7	24.2,	49.5,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	24.7,	30.4,	0	11	24.7,	34.6,	0	12	24.7,	37.8,	0
13	24.7,	39.9,	0	14	12.2,	444.6,	0	15	12.2,	468.8,	0	16	12.2,	478.8,	0	17	12.2,	478.7,	0	18	12.2,	474.6,	0
19	18.9,	72.9,	0	20	18.9,	73.7,	0	21	18.9,	72.2,	0	22	18.9,	68.6,	0	23	18.9,	62.9,	0	24	18.9,	55.2,	0
25	18.9,	45.9,	0	26	24.7,	19.3,	0	27	24.7,	25.2,	0	28	24.7,	30.4,	0	29	24.7,	34.6,	0	30	24.7,	37.8,	0
31	24.7,	39.9,	0	32	12.2,	444.6,	0	33	18.2,	17.1,	0	34	18.2,	15.4,	0	35	18.2,	16.4,	0	36	.0,	.0,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: DUSTSILO

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: EBURDEN

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: WBURDEN

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: COKEBAGH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	24.7,	40.3,	0	2	24.7,	38.8,	0	3	24.7,	36.1,	0	4	24.7,	32.3,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	24.7,	25.2,	0	10	24.7,	30.4,	0	11	24.7,	34.6,	0	12	24.7,	37.8,	0
13	29.0,	27.6,	0	14	24.7,	40.7,	0	15	24.7,	40.3,	0	16	24.7,	38.7,	0	17	24.7,	39.6,	0	18	24.7,	40.6,	0
19	24.7,	40.3,	0	20	24.7,	38.8,	0	21	24.7,	36.1,	0	22	24.7,	32.3,	0	23	28.3,	85.1,	0	24	28.3,	58.5,	0
25	28.3,	36.3,	0	26	28.3,	47.9,	0	27	24.7,	25.2,	0	28	24.7,	30.4,	0	29	24.7,	34.6,	0	30	24.7,	37.8,	0
31	24.7,	39.9,	0	32	24.7,	40.7,	0	33	24.7,	40.3,	0	34	24.7,	38.7,	0	35	24.7,	39.6,	0	36	24.7,	40.6,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: PHOSDOCK

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	7.6,	73.8,	0
7	7.6,	70.3,	0	8	7.6,	71.1,	0	9	7.6,	71.9,	0	10	7.6,	70.6,	0	11	28.3,	124.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	29.0,	45.1,	0
25	7.6,	70.3,	0	26	7.6,	71.1,	0	27	7.6,	71.9,	0	28	18.9,	101.2,	0	29	28.3,	124.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: BOILER3

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	7.2,	33.3,	0	8	7.2,	33.6,	0	9	7.2,	34.1,	0	10	7.2,	33.6,	0	11	7.2,	32.0,	0	12	28.3,	143.8,	0
13	28.3,	159.5,	0	14	28.3,	170.3,	0	15	28.3,	175.9,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	7.2,	33.3,	0	26	7.2,	33.6,	0	27	7.2,	34.1,	0	28	24.7,	30.4,	0	29	24.7,	34.6,	0	30	28.3,	143.8,	0
31	28.3,	159.5,	0	32	28.3,	170.3,	0	33	28.3,	175.9,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: BOILER4

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	7.2,	35.5,	0
7	7.2,	33.3,	0	8	7.2,	33.6,	0	9	7.2,	34.1,	0	10	7.2,	33.6,	0	11	7.2,	32.0,	0	12	7.2,	29.5,	0
13	28.3,	159.5,	0	14	28.3,	170.3,	0	15	28.3,	175.9,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	29.0,	45.1,	0
25	29.0,	45.5,	0	26	7.2,	33.6,	0	27	7.2,	34.1,	0	28	24.7,	30.4,	0	29	24.7,	34.6,	0	30	24.7,	37.8,	0
31	28.3,	159.5,	0	32	28.3,	170.3,	0	33	28.3,	175.9,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: 1FURTAPH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2FURTAPH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WA
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: 3FURTAPH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: 4FURTAPH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: FUR1PRV

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: FUR2PRV

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: FUR3PRV

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: FUR4PRV

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: FUR1COF

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: FUR2COF

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WA
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: FUR3COF

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAI
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: FUR4COF

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAI
1	34.2,	131.6,	0	2	34.2,	123.7,	0	3	34.2,	112.0,	0	4	34.2,	96.9,	0	5	34.2,	78.9,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	34.2,	131.5,	0	15	34.2,	134.7,	0	16	34.2,	133.7,	0	17	34.2,	135.3,	0	18	34.2,	135.5,	0
19	34.2,	131.6,	0	20	34.2,	123.7,	0	21	34.2,	112.0,	0	22	34.2,	96.9,	0	23	34.2,	78.9,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	34.2,	131.5,	0	33	34.2,	134.7,	0	34	34.2,	133.7,	0	35	34.2,	135.3,	0	36	34.2,	135.5,	0

SOURCE ID: SECFLARE

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	28.3,	163.2,	0	2	28.3,	149.0,	0	3	28.3,	131.3,	0	4	28.3,	109.8,	0	5	24.7,	27.5,	0	6	34.2,	58.5,	0
7	34.2,	36.3,	0	8	34.2,	43.1,	0	9	34.2,	61.8,	0	10	34.2,	81.7,	0	11	34.2,	99.1,	0	12	34.2,	113.4,	0
13	34.2,	124.4,	0	14	28.3,	170.3,	0	15	28.3,	175.9,	0	16	28.3,	176.5,	0	17	28.3,	176.3,	0	18	28.3,	172.4,	0
19	28.3,	163.2,	0	20	28.3,	149.0,	0	21	28.3,	131.3,	0	22	28.3,	109.8,	0	23	24.7,	27.5,	0	24	34.2,	58.5,	0
25	34.2,	36.3,	0	26	34.2,	43.1,	0	27	34.2,	61.8,	0	28	34.2,	81.7,	0	29	34.2,	99.1,	0	30	34.2,	113.4,	0
31	34.2,	124.4,	0	32	28.3,	170.3,	0	33	28.3,	175.9,	0	34	28.3,	176.5,	0	35	28.3,	176.3,	0	36	28.3,	172.4,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: COFLARE

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	.0,	.0,	0	2	9.4,	39.4,	0	3	9.4,	37.8,	0	4	9.4,	35.0,	0	5	9.4,	31.2,	0	6	9.4,	26.4,	0
7	.0,	.0,	0	8	.0,	.0,	0	9	.0,	.0,	0	10	21.7,	21.2,	0	11	21.7,	21.0,	0	12	21.7,	20.0,	0
13	21.7,	18.4,	0	14	18.9,	66.1,	0	15	18.9,	64.4,	0	16	18.2,	15.4,	0	17	18.2,	16.4,	0	18	18.2,	17.8,	0
19	18.2,	18.7,	0	20	.0,	.0,	0	21	.0,	.0,	0	22	.0,	.0,	0	23	.0,	.0,	0	24	.0,	.0,	0
25	.0,	.0,	0	26	.0,	.0,	0	27	.0,	.0,	0	28	.0,	.0,	0	29	.0,	.0,	0	30	.0,	.0,	0
31	.0,	.0,	0	32	.0,	.0,	0	33	.0,	.0,	0	34	.0,	.0,	0	35	.0,	.0,	0	36	.0,	.0,	0

SOURCE ID: PHOSACID

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	35.4,	59.6,	0	2	35.4,	57.3,	0	3	35.4,	58.5,	0	4	35.4,	57.8,	0	5	35.4,	55.3,	0	6	35.4,	51.2,	0
7	30.5,	30.3,	0	8	29.3,	58.4,	0	9	29.3,	52.0,	0	10	29.3,	45.2,	0	11	29.3,	41.9,	0	12	29.3,	46.6,	0
13	29.3,	49.8,	0	14	29.3,	53.0,	0	15	29.3,	56.2,	0	16	29.3,	57.8,	0	17	35.4,	86.3,	0	18	35.4,	82.2,	0
19	35.4,	76.5,	0	20	35.4,	70.1,	0	21	35.4,	64.8,	0	22	35.4,	57.8,	0	23	35.4,	55.3,	0	24	35.4,	51.2,	0
25	30.5,	30.3,	0	26	29.3,	58.4,	0	27	29.3,	52.0,	0	28	29.3,	45.2,	0	29	29.3,	41.9,	0	30	29.3,	46.6,	0
31	29.3,	49.8,	0	32	29.3,	53.0,	0	33	29.3,	56.2,	0	34	29.3,	57.8,	0	35	35.4,	86.3,	0	36	35.4,	82.2,	0

SOURCE ID: GRAN1RNG

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	29.6,	17.7,	0	2	29.6,	16.1,	0	3	29.6,	18.2,	0	4	23.5,	27.2,	0	5	23.5,	31.4,	0	6	23.5,	34.7,	0
7	23.5,	36.9,	0	8	23.5,	38.0,	0	9	23.5,	38.0,	0	10	23.5,	36.8,	0	11	23.5,	34.9,	0	12	23.5,	36.8,	0
13	23.5,	37.6,	0	14	23.5,	37.3,	0	15	23.5,	35.8,	0	16	23.5,	33.3,	0	17	23.5,	29.7,	0	18	23.5,	25.2,	0
19	23.5,	19.9,	0	20	21.3,	37.0,	0	21	23.5,	22.1,	0	22	23.5,	27.2,	0	23	23.5,	31.4,	0	24	23.5,	34.7,	0
25	23.5,	36.9,	0	26	23.5,	38.0,	0	27	23.5,	38.0,	0	28	23.5,	36.8,	0	29	35.4,	59.5,	0	30	35.4,	39.9,	0
31	35.4,	47.8,	0	32	23.5,	37.3,	0	33	23.5,	35.8,	0	34	23.5,	33.3,	0	35	23.5,	29.7,	0	36	23.5,	25.2,	0

SOURCE ID: GRAN1BAG

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	29.6,	17.7,	0	2	29.6,	16.1,	0	3	29.6,	18.2,	0	4	23.5,	27.2,	0	5	23.5,	31.4,	0	6	23.5,	34.7,	0
7	23.5,	36.9,	0	8	23.5,	38.0,	0	9	23.5,	38.0,	0	10	23.5,	36.8,	0	11	23.5,	34.9,	0	12	23.5,	36.8,	0
13	23.5,	37.6,	0	14	23.5,	37.3,	0	15	23.5,	35.8,	0	16	23.5,	33.3,	0	17	23.5,	29.7,	0	18	23.5,	25.2,	0
19	23.5,	19.9,	0	20	21.3,	37.0,	0	21	23.5,	22.1,	0	22	23.5,	27.2,	0	23	23.5,	31.4,	0	24	23.5,	34.7,	0
25	23.5,	36.9,	0	26	23.5,	38.0,	0	27	23.5,	38.0,	0	28	23.5,	36.8,	0	29	35.4,	59.5,	0	30	35.4,	39.9,	0
31	35.4,	47.8,	0	32	35.4,	54.2,	0	33	23.5,	35.8,	0	34	23.5,	33.3,	0	35	23.5,	29.7,	0	36	23.5,	25.2,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: GRAN1DRY

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	29.6,	17.7,	0	2	29.6,	16.1,	0	3	29.6,	18.2,	0	4	23.5,	27.2,	0	5	23.5,	31.4,	0	6	23.5,	34.7,	0
7	23.5,	36.9,	0	8	23.5,	38.0,	0	9	23.5,	38.0,	0	10	23.5,	36.8,	0	11	23.5,	34.9,	0	12	23.5,	36.8,	0
13	23.5,	37.6,	0	14	23.5,	37.3,	0	15	23.5,	35.8,	0	16	23.5,	33.3,	0	17	23.5,	29.7,	0	18	23.5,	25.2,	0
19	23.5,	19.9,	0	20	21.3,	37.0,	0	21	23.5,	22.1,	0	22	23.5,	27.2,	0	23	23.5,	31.4,	0	24	23.5,	34.7,	0
25	23.5,	36.9,	0	26	23.5,	38.0,	0	27	23.5,	38.0,	0	28	23.5,	36.8,	0	29	35.4,	59.5,	0	30	35.4,	39.9,	0
31	35.4,	47.8,	0	32	35.4,	54.2,	0	33	23.5,	35.8,	0	34	23.5,	33.3,	0	35	23.5,	29.7,	0	36	23.5,	25.2,	0

SOURCE ID: GRAN2TGS

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	29.6,	17.7,	0	2	29.6,	16.1,	0	3	29.6,	18.2,	0	4	29.6,	19.7,	0	5	29.6,	20.6,	0	6	29.6,	20.9,	0
7	29.6,	20.5,	0	8	29.6,	19.6,	0	9	29.6,	18.0,	0	10	29.6,	15.9,	0	11	21.3,	33.3,	0	12	29.6,	16.6,	0
13	29.6,	18.6,	0	14	29.6,	20.0,	0	15	29.6,	20.8,	0	16	29.6,	21.0,	0	17	29.6,	20.5,	0	18	23.5,	25.2,	0
19	29.6,	17.7,	0	20	29.6,	16.1,	0	21	29.6,	18.2,	0	22	29.6,	19.7,	0	23	29.6,	20.6,	0	24	29.6,	20.9,	0
25	29.6,	20.5,	0	26	29.6,	19.6,	0	27	35.4,	36.2,	0	28	35.4,	51.8,	0	29	35.4,	59.5,	0	30	29.6,	16.6,	0
31	29.6,	18.6,	0	32	29.6,	20.0,	0	33	29.6,	20.8,	0	34	29.6,	21.0,	0	35	29.6,	20.5,	0	36	29.6,	19.4,	0

SOURCE ID: GRAN2COL

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	29.6,	17.7,	0	2	29.6,	16.1,	0	3	29.6,	18.2,	0	4	29.6,	19.7,	0	5	29.6,	20.6,	0	6	23.5,	34.7,	0
7	23.5,	36.9,	0	8	23.5,	38.0,	0	9	21.3,	27.0,	0	10	21.3,	30.1,	0	11	21.3,	33.3,	0	12	21.3,	39.0,	0
13	21.3,	21.6,	0	14	29.6,	20.0,	0	15	29.6,	20.8,	0	16	29.6,	21.0,	0	17	29.6,	20.5,	0	18	23.5,	25.2,	0
19	29.6,	17.7,	0	20	29.6,	16.1,	0	21	29.6,	18.2,	0	22	29.6,	19.7,	0	23	29.6,	20.6,	0	24	23.5,	34.7,	0
25	23.5,	36.9,	0	26	23.5,	38.0,	0	27	21.3,	27.0,	0	28	35.4,	51.8,	0	29	35.4,	59.5,	0	30	35.4,	39.9,	0
31	21.3,	21.6,	0	32	29.6,	20.0,	0	33	29.6,	20.8,	0	34	29.6,	21.0,	0	35	29.6,	20.5,	0	36	23.5,	25.2,	0

SOURCE ID: GRAN3

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	29.3,	54.6,	0	2	29.3,	56.8,	0	3	29.3,	61.9,	0	4	29.3,	65.2,	0	5	35.4,	55.3,	0	6	35.4,	51.2,	0
7	35.4,	45.6,	0	8	29.3,	58.4,	0	9	29.3,	52.0,	0	10	29.3,	45.2,	0	11	29.3,	41.9,	0	12	29.3,	46.6,	0
13	29.3,	49.8,	0	14	30.5,	30.9,	0	15	30.5,	30.2,	0	16	30.5,	28.5,	0	17	29.3,	57.6,	0	18	29.3,	55.7,	0
19	29.3,	54.6,	0	20	29.3,	56.8,	0	21	29.3,	61.9,	0	22	29.3,	65.2,	0	23	29.3,	66.5,	0	24	29.3,	65.8,	0
25	29.3,	63.1,	0	26	29.3,	58.4,	0	27	29.3,	52.0,	0	28	29.3,	45.2,	0	29	29.3,	41.9,	0	30	29.3,	46.6,	0
31	29.3,	49.8,	0	32	30.5,	30.9,	0	33	30.5,	30.2,	0	34	30.5,	28.5,	0	35	29.3,	57.6,	0	36	29.3,	55.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: ASDRYVSC

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	21.3,	41.2,	0	2	21.3,	37.0,	0	3	21.3,	36.3,	0	4	21.3,	34.5,	0	5	29.6,	20.6,	0	6	29.6,	20.9,	0
7	29.6,	20.5,	0	8	29.6,	19.6,	0	9	29.6,	18.0,	0	10	29.6,	15.9,	0	11	21.3,	33.3,	0	12	29.6,	16.6,	0
13	29.6,	18.6,	0	14	21.3,	21.7,	0	15	23.5,	35.8,	0	16	23.5,	33.3,	0	17	23.5,	29.7,	0	18	23.5,	25.2,	0
19	23.5,	19.9,	0	20	21.3,	37.0,	0	21	21.3,	36.3,	0	22	21.3,	34.5,	0	23	29.6,	20.6,	0	24	29.6,	20.9,	0
25	29.6,	20.5,	0	26	29.6,	19.6,	0	27	35.4,	46.2,	0	28	35.4,	51.8,	0	29	35.4,	59.5,	0	30	35.4,	39.9,	0
31	29.6,	18.6,	0	32	21.3,	21.7,	0	33	23.5,	35.8,	0	34	23.5,	33.3,	0	35	23.5,	29.7,	0	36	23.5,	25.2,	0

SOURCE ID: ASCOOLCY

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	21.3,	41.2,	0	2	21.3,	37.0,	0	3	21.3,	36.3,	0	4	29.6,	19.7,	0	5	29.6,	20.6,	0	6	29.6,	20.9,	0
7	29.6,	20.5,	0	8	29.6,	19.6,	0	9	29.6,	18.0,	0	10	29.6,	15.9,	0	11	21.3,	33.3,	0	12	29.6,	16.6,	0
13	29.6,	18.6,	0	14	29.6,	20.0,	0	15	29.6,	20.8,	0	16	23.5,	33.3,	0	17	23.5,	29.7,	0	18	23.5,	25.2,	0
19	23.5,	19.9,	0	20	21.3,	37.0,	0	21	21.3,	36.3,	0	22	29.6,	19.7,	0	23	29.6,	20.6,	0	24	29.6,	20.9,	0
25	29.6,	20.5,	0	26	29.6,	19.6,	0	27	35.4,	46.2,	0	28	35.4,	51.8,	0	29	35.4,	59.5,	0	30	35.4,	39.9,	0
31	29.6,	18.6,	0	32	29.6,	20.0,	0	33	29.6,	20.8,	0	34	23.5,	33.3,	0	35	23.5,	29.7,	0	36	23.5,	25.2,	0

SOURCE ID: CEBOILER

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	35.4,	59.6,	0	2	35.4,	57.3,	0	3	25.9,	44.4,	0	4	25.9,	47.9,	0	5	25.9,	49.9,	0	6	25.9,	52.3,	0
7	29.3,	63.1,	0	8	29.3,	58.4,	0	9	25.9,	50.0,	0	10	25.9,	46.1,	0	11	29.3,	41.9,	0	12	25.9,	45.1,	0
13	25.9,	46.2,	0	14	35.4,	82.7,	0	15	35.4,	86.5,	0	16	25.9,	30.5,	0	17	25.9,	32.1,	0	18	9.2,	27.5,	0
19	35.4,	76.5,	0	20	35.4,	70.1,	0	21	25.9,	44.4,	0	22	25.9,	47.9,	0	23	25.9,	49.9,	0	24	25.9,	52.3,	0
25	30.5,	30.3,	0	26	30.5,	30.6,	0	27	30.5,	30.0,	0	28	29.3,	45.2,	0	29	29.3,	41.9,	0	30	25.9,	45.1,	0
31	25.9,	46.2,	0	32	35.4,	82.7,	0	33	35.4,	86.5,	0	34	35.4,	62.0,	0	35	35.4,	63.1,	0	36	35.4,	62.3,	0

SOURCE ID: FWBOILER

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	35.4,	59.6,	0	2	9.2,	23.9,	0	3	12.2,	14.4,	0	4	25.9,	47.9,	0	5	25.9,	49.9,	0	6	25.9,	52.3,	0
7	29.3,	63.1,	0	8	25.9,	52.4,	0	9	25.9,	50.0,	0	10	25.9,	46.1,	0	11	25.9,	42.7,	0	12	25.9,	45.1,	0
13	25.9,	46.2,	0	14	35.4,	82.7,	0	15	25.9,	27.9,	0	16	25.9,	30.5,	0	17	12.2,	16.9,	0	18	12.2,	15.6,	0
19	35.4,	76.5,	0	20	9.2,	23.9,	0	21	12.2,	14.4,	0	22	25.9,	47.9,	0	23	25.9,	49.9,	0	24	25.9,	52.3,	0
25	30.5,	30.3,	0	26	30.5,	30.6,	0	27	30.5,	30.0,	0	28	29.3,	45.2,	0	29	29.3,	41.9,	0	30	25.9,	45.1,	0
31	25.9,	46.2,	0	32	35.4,	82.7,	0	33	35.4,	59.0,	0	34	35.4,	62.0,	0	35	35.4,	63.1,	0	36	35.4,	62.3,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: KEBOILER

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WA
1	35.4,	59.6,	0	2	9.2,	23.9,	0	3	12.2,	14.4,	0	4	12.2,	15.9,	0	5	25.9,	49.9,	0	6	25.9,	52.3,	C
7	25.9,	53.1,	0	8	29.3,	58.4,	0	9	25.9,	50.0,	0	10	25.9,	46.1,	0	11	25.9,	42.7,	0	12	25.9,	45.1,	C
13	29.3,	49.8,	0	14	25.9,	47.4,	0	15	25.9,	27.9,	0	16	25.9,	30.5,	0	17	25.9,	32.1,	0	18	25.9,	32.8,	0
19	9.2,	25.3,	0	20	9.2,	23.9,	0	21	12.2,	14.4,	0	22	12.2,	15.9,	0	23	25.9,	49.9,	0	24	25.9,	52.3,	0
25	25.9,	53.1,	0	26	30.5,	30.6,	0	27	30.5,	30.0,	0	28	29.3,	45.2,	0	29	29.3,	41.9,	0	30	29.3,	46.6,	0
31	29.3,	49.8,	0	32	25.9,	47.4,	0	33	35.4,	86.5,	0	34	35.4,	62.0,	0	35	35.4,	63.1,	0	36	35.4,	62.3,	0

SOURCE ID: H2ONTWR

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAI
1	16.8,	159.0,	0	2	10.7,	26.7,	0	3	16.8,	160.9,	0	4	16.8,	161.3,	0	5	16.8,	156.9,	0	6	16.8,	147.7,	0
7	16.8,	134.0,	0	8	16.8,	116.3,	0	9	35.4,	46.2,	0	10	35.4,	51.8,	0	11	11.6,	22.8,	0	12	29.3,	46.6,	0
13	29.3,	49.8,	0	14	29.3,	53.0,	0	15	16.8,	141.1,	0	16	16.8,	152.7,	0	17	16.8,	159.7,	0	18	16.8,	161.8,	0
19	16.8,	159.0,	0	20	16.8,	155.5,	0	21	16.8,	160.9,	0	22	16.8,	161.3,	0	23	16.8,	156.9,	0	24	16.8,	147.7,	0
25	16.8,	134.0,	0	26	16.8,	116.3,	0	27	11.6,	21.0,	0	28	11.6,	21.2,	0	29	11.6,	22.8,	0	30	11.6,	23.7,	0
31	11.6,	23.0,	0	32	16.8,	125.2,	0	33	16.8,	141.1,	0	34	16.8,	152.7,	0	35	16.8,	159.7,	0	36	16.8,	161.8,	0

SOURCE ID: H2OETWR

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	37.9,	0	2	11.6,	37.5,	0	3	11.6,	38.2,	0	4	11.6,	37.8,	0	5	11.6,	36.3,	0	6	11.6,	33.6,	0
7	11.6,	29.9,	0	8	11.6,	25.4,	0	9	11.6,	20.0,	0	10	11.6,	14.0,	0	11	11.6,	11.2,	0	12	11.6,	17.3,	0
13	11.6,	23.0,	0	14	11.6,	23.3,	0	15	11.6,	22.1,	0	16	11.6,	35.1,	0	17	11.6,	37.2,	0	18	11.6,	38.1,	0
19	11.6,	37.9,	0	20	11.6,	37.5,	0	21	11.6,	38.2,	0	22	11.6,	37.8,	0	23	11.6,	36.3,	0	24	11.6,	33.6,	0
25	11.6,	29.9,	0	26	11.6,	25.4,	0	27	11.6,	20.0,	0	28	11.6,	14.0,	0	29	11.6,	11.2,	0	30	11.6,	17.3,	0
31	11.6,	23.0,	0	32	11.6,	27.9,	0	33	11.6,	32.0,	0	34	11.6,	35.1,	0	35	11.6,	37.2,	0	36	11.6,	38.1,	0

SOURCE ID: H2OWTWR

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7,	26.7,	0	2	10.7,	26.7,	0	3	10.7,	28.1,	0	4	10.7,	28.7,	0	5	10.7,	28.4,	0	6	10.7,	27.2,	0
7	11.6,	29.9,	0	8	11.6,	25.4,	0	9	11.6,	20.0,	0	10	11.6,	14.0,	0	11	11.6,	11.2,	0	12	11.6,	17.3,	0
13	11.6,	23.0,	0	14	10.7,	23.1,	0	15	11.6,	22.1,	0	16	11.6,	20.1,	0	17	11.6,	17.6,	0	18	11.6,	14.5,	0
19	11.6,	11.0,	0	20	10.7,	26.7,	0	21	10.7,	28.1,	0	22	10.7,	28.7,	0	23	10.7,	28.4,	0	24	10.7,	27.2,	0
25	11.6,	29.9,	0	26	11.6,	25.4,	0	27	11.6,	20.0,	0	28	11.6,	14.0,	0	29	11.6,	11.2,	0	30	11.6,	17.3,	0
31	11.6,	23.0,	0	32	10.7,	23.1,	0	33	11.6,	22.1,	0	34	11.6,	20.1,	0	35	10.7,	27.7,	0	36	10.7,	27.6,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: AMMONIA1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	.0,	.0,	0	2	35.4,	57.3,	0	3	35.4,	58.5,	0	4	35.4,	57.8,	0	5	35.4,	55.3,	0	6	35.4,	51.2,	0
7	35.4,	45.6,	0	8	24.4,	94.1,	0	9	24.4,	93.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	.0,	.0,	0	14	.0,	.0,	0	15	.0,	.0,	0	16	.0,	.0,	0	17	.0,	.0,	0	18	.0,	.0,	0
19	.0,	.0,	0	20	35.4,	57.3,	0	21	35.4,	58.5,	0	22	35.4,	57.8,	0	23	35.4,	55.3,	0	24	35.4,	51.2,	0
25	35.4,	45.6,	0	26	24.4,	59.9,	0	27	24.4,	60.0,	0	28	22.9,	25.0,	0	29	22.9,	25.1,	0	30	22.9,	26.0,	0
31	22.9,	26.1,	0	32	.0,	.0,	0	33	.0,	.0,	0	34	.0,	.0,	0	35	.0,	.0,	0	36	.0,	.0,	0

SOURCE ID: AMMONIA2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	.0,	.0,	0	2	.0,	.0,	0	3	.0,	.0,	0	4	.0,	.0,	0	5	.0,	.0,	0	6	.0,	.0,	0
7	.0,	.0,	0	8	.0,	.0,	0	9	.0,	.0,	0	10	.0,	.0,	0	11	.0,	.0,	0	12	.0,	.0,	0
13	.0,	.0,	0	14	.0,	.0,	0	15	.0,	.0,	0	16	.0,	.0,	0	17	.0,	.0,	0	18	.0,	.0,	0
19	.0,	.0,	0	20	35.4,	57.3,	0	21	35.4,	58.5,	0	22	35.4,	57.8,	0	23	35.4,	55.3,	0	24	24.4,	56.4,	0
25	24.4,	58.0,	0	26	22.9,	26.2,	0	27	22.9,	26.0,	0	28	.0,	.0,	0	29	.0,	.0,	0	30	.0,	.0,	0
31	.0,	.0,	0	32	.0,	.0,	0	33	.0,	.0,	0	34	.0,	.0,	0	35	.0,	.0,	0	36	.0,	.0,	0

SOURCE ID: SPA

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	23.5,	20.0,	0	2	16.2,	170.3,	0	3	16.2,	173.1,	0	4	16.2,	170.5,	0	5	16.2,	162.8,	0	6	16.2,	150.1,	0
7	16.2,	132.9,	0	8	16.2,	111.7,	0	9	16.2,	87.0,	0	10	16.2,	59.7,	0	11	16.2,	67.0,	0	12	18.3,	18.8,	0
13	18.3,	21.7,	0	14	23.5,	37.3,	0	15	23.5,	35.8,	0	16	23.5,	33.3,	0	17	23.5,	29.7,	0	18	23.5,	25.2,	0
19	23.5,	19.9,	0	20	16.2,	170.3,	0	21	16.2,	173.1,	0	22	16.2,	170.5,	0	23	16.2,	162.8,	0	24	16.2,	150.1,	0
25	16.2,	132.9,	0	26	16.2,	111.7,	0	27	16.2,	87.0,	0	28	16.2,	59.7,	0	29	16.2,	67.0,	0	30	13.7,	13.6,	0
31	13.7,	14.4,	0	32	23.5,	37.3,	0	33	23.5,	35.8,	0	34	23.5,	33.3,	0	35	23.5,	29.7,	0	36	23.5,	25.2,	0

SOURCE ID: TANKFARM

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	35.4,	76.5,	0	2	35.4,	57.3,	0	3	35.4,	58.5,	0	4	35.4,	57.8,	0	5	35.4,	55.3,	0	6	30.5,	29.0,	0
7	30.5,	30.3,	0	8	30.5,	30.6,	0	9	30.5,	30.0,	0	10	29.3,	45.2,	0	11	29.3,	41.9,	0	12	29.3,	46.6,	0
13	29.3,	49.8,	0	14	29.3,	53.0,	0	15	29.3,	56.2,	0	16	29.3,	57.8,	0	17	29.3,	57.6,	0	18	29.3,	55.7,	0
19	29.3,	54.6,	0	20	29.3,	56.8,	0	21	29.3,	61.9,	0	22	29.3,	65.2,	0	23	29.3,	66.5,	0	24	30.5,	29.0,	0
25	30.5,	30.3,	0	26	30.5,	30.6,	0	27	30.5,	30.0,	0	28	29.3,	45.2,	0	29	29.3,	41.9,	0	30	29.3,	46.6,	0
31	29.3,	49.8,	0	32	29.3,	53.0,	0	33	29.3,	56.2,	0	34	29.3,	57.8,	0	35	29.3,	57.6,	0	36	29.3,	55.7,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: COKESCRU

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	7.0,	45.7,	0	2	7.0,	45.7,	0	3	7.0,	45.7,	0	4	7.0,	45.7,	0	5	7.0,	45.7,	0	6	7.0,	45.7,	0
7	7.0,	45.7,	0	8	7.0,	45.7,	0	9	7.0,	45.7,	0	10	7.0,	45.7,	0	11	7.0,	45.7,	0	12	7.0,	45.7,	0
13	7.0,	45.7,	0	14	7.0,	45.7,	0	15	7.0,	45.7,	0	16	7.0,	45.7,	0	17	7.0,	45.7,	0	18	7.0,	45.7,	0
19	7.0,	45.7,	0	20	7.0,	45.7,	0	21	7.0,	45.7,	0	22	7.0,	45.7,	0	23	7.0,	45.7,	0	24	7.0,	45.7,	0
25	7.0,	45.7,	0	26	7.0,	45.7,	0	27	7.0,	45.7,	0	28	7.0,	45.7,	0	29	7.0,	45.7,	0	30	7.0,	45.7,	0
31	7.0,	45.7,	0	32	7.0,	45.7,	0	33	7.0,	45.7,	0	34	7.0,	45.7,	0	35	7.0,	45.7,	0	36	7.0,	45.7,	0

SOURCE ID: COKEBH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	7.0,	45.7,	0	2	7.0,	45.7,	0	3	7.0,	45.7,	0	4	7.0,	45.7,	0	5	7.0,	45.7,	0	6	7.0,	45.7,	0
7	7.0,	45.7,	0	8	7.0,	45.7,	0	9	7.0,	45.7,	0	10	7.0,	45.7,	0	11	7.0,	45.7,	0	12	7.0,	45.7,	0
13	7.0,	45.7,	0	14	7.0,	45.7,	0	15	7.0,	45.7,	0	16	7.0,	45.7,	0	17	7.0,	45.7,	0	18	7.0,	45.7,	0
19	7.0,	45.7,	0	20	7.0,	45.7,	0	21	7.0,	45.7,	0	22	7.0,	45.7,	0	23	7.0,	45.7,	0	24	7.0,	45.7,	0
25	7.0,	45.7,	0	26	7.0,	45.7,	0	27	7.0,	45.7,	0	28	7.0,	45.7,	0	29	7.0,	45.7,	0	30	7.0,	45.7,	0
31	7.0,	45.7,	0	32	7.0,	45.7,	0	33	7.0,	45.7,	0	34	7.0,	45.7,	0	35	7.0,	45.7,	0	36	7.0,	45.7,	0

SOURCE ID: DRUMBH

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.0,	7.6,	0	2	10.0,	7.6,	0	3	10.0,	7.6,	0	4	10.0,	7.6,	0	5	10.0,	7.6,	0	6	10.0,	7.6,	0
7	10.0,	7.6,	0	8	10.0,	7.6,	0	9	10.0,	7.6,	0	10	10.0,	7.6,	0	11	10.0,	7.6,	0	12	10.0,	7.6,	0
13	10.0,	7.6,	0	14	10.0,	7.6,	0	15	10.0,	7.6,	0	16	10.0,	7.6,	0	17	10.0,	7.6,	0	18	10.0,	7.6,	0
19	10.0,	7.6,	0	20	10.0,	7.6,	0	21	10.0,	7.6,	0	22	10.0,	7.6,	0	23	10.0,	7.6,	0	24	10.0,	7.6,	0
25	10.0,	7.6,	0	26	10.0,	7.6,	0	27	10.0,	7.6,	0	28	10.0,	7.6,	0	29	10.0,	7.6,	0	30	10.0,	7.6,	0
31	10.0,	7.6,	0	32	10.0,	7.6,	0	33	10.0,	7.6,	0	34	10.0,	7.6,	0	35	10.0,	7.6,	0	36	10.0,	7.6,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV

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

(376200.0,	4752100.0,	1341.0,	.0);	(375000.0,	4751800.0,	1356.0,	.0);
(377900.0,	4754300.0,	1362.0,	.0);	(377950.0,	4751300.0,	1356.0,	.0);
(371650.0,	4748400.0,	1387.0,	.0);	(357000.0,	4743000.0,	1353.0,	.0);
(376450.0,	4750540.0,	1470.0,	.0);	(364700.0,	4746700.0,	1370.0,	.0);
(364700.0,	4758700.0,	1325.0,	.0);	(366700.0,	4742700.0,	1372.0,	.0);
(366700.0,	4758700.0,	1325.0,	.0);	(370700.0,	4747700.0,	1402.0,	.0);
(370700.0,	4748700.0,	1400.0,	.0);	(370700.0,	4749700.0,	1359.0,	.0);
(370700.0,	4750700.0,	1356.0,	.0);	(370700.0,	4751700.0,	1353.0,	.0);
(370700.0,	4752700.0,	1353.0,	.0);	(370700.0,	4754700.0,	1347.0,	.0);
(371760.0,	4750600.0,	1356.0,	.0);	(372700.0,	4746700.0,	1475.0,	.0);
(372700.0,	4747700.0,	1432.0,	.0);	(372700.0,	4748700.0,	1463.0,	.0);
(372700.0,	4749700.0,	1379.0,	.0);	(372700.0,	4751700.0,	1356.0,	.0);
(372700.0,	4752700.0,	1353.0,	.0);	(372700.0,	4753700.0,	1350.0,	.0);
(372700.0,	4754700.0,	1338.0,	.0);	(373200.0,	4749200.0,	1369.0,	.0);
(373200.0,	4750200.0,	1375.0,	.0);	(373200.0,	4751200.0,	1356.0,	.0);
(373200.0,	4752200.0,	1356.0,	.0);	(373700.0,	4748700.0,	1436.0,	.0);
(373700.0,	4749700.0,	1412.0,	.0);	(373700.0,	4751700.0,	1357.0,	.0);
(374200.0,	4749200.0,	1448.0,	.0);	(374200.0,	4752200.0,	1356.0,	.0);
(374700.0,	4748700.0,	1630.0,	.0);	(374700.0,	4749700.0,	1408.0,	.0);
(374700.0,	4751700.0,	1356.0,	.0);	(374700.0,	4752700.0,	1350.0,	.0);
(374700.0,	4753700.0,	1350.0,	.0);	(374700.0,	4754700.0,	1362.0,	.0);
(375200.0,	4749200.0,	1600.0,	.0);	(375200.0,	4752200.0,	1356.0,	.0);
(375700.0,	4749700.0,	1692.0,	.0);	(375700.0,	4751700.0,	1430.0,	.0);
(376200.0,	4749200.0,	1624.0,	.0);	(376300.0,	4752400.0,	1356.0,	.0);
(376700.0,	4749700.0,	1524.0,	.0);	(376700.0,	4750700.0,	1463.0,	.0);
(376700.0,	4751700.0,	1347.0,	.0);	(376700.0,	4752700.0,	1350.0,	.0);
(376700.0,	4753700.0,	1362.0,	.0);	(376700.0,	4754700.0,	1356.0,	.0);
(376700.0,	4758700.0,	1356.0,	.0);	(377200.0,	4752200.0,	1356.0,	.0);
(378700.0,	4747700.0,	1524.0,	.0);	(378700.0,	4748700.0,	1414.0,	.0);
(378700.0,	4749700.0,	1390.0,	.0);	(378700.0,	4750700.0,	1356.0,	.0);
(378700.0,	4751700.0,	1353.0,	.0);	(378700.0,	4752700.0,	1362.0,	.0);
(378700.0,	4753700.0,	1359.0,	.0);	(378700.0,	4754700.0,	1362.0,	.0);
(379400.0,	4753600.0,	1365.0,	.0);	(380700.0,	4746700.0,	1360.0,	.0);
(380700.0,	4748700.0,	1360.0,	.0);	(380700.0,	4750700.0,	1362.0,	.0);
(380700.0,	4752700.0,	1362.0,	.0);	(380700.0,	4754700.0,	1359.0,	.0);
(380700.0,	4756700.0,	1359.0,	.0);	(380700.0,	4758700.0,	1325.0,	.0);
(380889.0,	4747781.0,	1384.0,	.0);	(382700.0,	4748700.0,	1375.0,	.0);
(382700.0,	4750700.0,	1411.0,	.0);	(382700.0,	4752700.0,	1417.0,	.0);
(382700.0,	4754700.0,	1395.0,	.0);	(382700.0,	4756700.0,	1408.0,	.0);
(382700.0,	4758700.0,	1364.0,	.0);	(382800.0,	4746400.0,	1359.0,	.0);
(360000.0,	4745000.0,	1364.0,	.0);	(360000.0,	4750000.0,	1364.0,	.0);
(364700.0,	4750700.0,	1350.0,	.0);	(364700.0,	4754700.0,	1347.0,	.0);
(366700.0,	4756700.0,	1322.0,	.0);	(370700.0,	4758700.0,	1325.0,	.0);
(368700.0,	4752700.0,	1350.0,	.0);	(372700.0,	4756700.0,	1356.0,	.0);
(368700.0,	4744700.0,	1390.0,	.0);	(368700.0,	4748700.0,	1356.0,	.0);

*** MODELING OPTIONS USED: CONC RURAL ELEV

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

(376150.0,	4752050.0,	1341.0,	.0);	(376200.0,	4752050.0,	1341.0,	.0);
(376250.0,	4752050.0,	1341.0,	.0);	(376100.0,	4752100.0,	1341.0,	.0);
(376150.0,	4752100.0,	1341.0,	.0);	(376250.0,	4752100.0,	1341.0,	.0);
(376150.0,	4752150.0,	1341.0,	.0);	(376200.0,	4752150.0,	1341.0,	.0);
(376250.0,	4752150.0,	1341.0,	.0);	(374900.0,	4751750.0,	1356.0,	.0);
(374950.0,	4751775.0,	1356.0,	.0);	(375000.0,	4751790.0,	1356.0,	.0);
(375050.0,	4751775.0,	1356.0,	.0);	(375100.0,	4751775.0,	1356.0,	.0);
(375050.0,	4751800.0,	1356.0,	.0);	(375100.0,	4751800.0,	1356.0,	.0);
(374950.0,	4751850.0,	1356.0,	.0);	(375000.0,	4751850.0,	1356.0,	.0);
(375050.0,	4751850.0,	1356.0,	.0);	(375100.0,	4751850.0,	1356.0,	.0);
(376400.0,	4750490.0,	1462.0,	.0);	(376450.0,	4750490.0,	1466.0,	.0);
(376500.0,	4750490.0,	1472.0,	.0);	(376400.0,	4750540.0,	1465.0,	.0);
(376500.0,	4750540.0,	1472.0,	.0);	(376550.0,	4750540.0,	1472.0,	.0);
(376400.0,	4750590.0,	1463.0,	.0);	(376450.0,	4750590.0,	1465.0,	.0);
(376500.0,	4750590.0,	1466.0,	.0);	(376450.0,	4750640.0,	1457.0,	.0);

*** MODELING OPTIONS USED: CONC RURAL ELEV

* SOURCE-RECEPTOR COMBINATIONS LESS THAN 1.0 METER OR 3*ZLB *
IN DISTANCE. CALCULATIONS MAY NOT BE PERFORMED.

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
TANKFARM	375700.0	4751700.0	85.23

*** MODELING OPTIONS USED: CONC RURAL ELEV

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

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

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

*** MODELING OPTIONS USED: CONC RURAL ELEV

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

FILE: s19394xx.bin FORMAT: UNFORM
SURFACE STATION NO.: 1 UPPER AIR STATION NO.: 1
NAME: SITE1 NAME: SITE1
YEAR: 1993 YEAR: 1993

YEAR	MONTH	DAY	HOUR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN
93	1	1	1	313.0	7.30	272.9	4	913.0	913.0
93	1	1	2	310.0	8.10	273.1	4	1013.0	1013.0
93	1	1	3	312.0	6.40	273.3	4	800.0	800.0
93	1	1	4	302.0	7.40	273.7	4	925.0	925.0
93	1	1	5	308.0	8.20	273.6	4	1025.0	1025.0
93	1	1	6	307.0	8.80	273.6	4	1100.0	1100.0
93	1	1	7	312.0	9.40	273.9	4	1175.0	1175.0
93	1	1	8	317.0	8.40	274.7	4	1050.0	1050.0
93	1	1	9	315.0	7.20	275.0	4	1500.0	1500.0
93	1	1	10	329.0	6.30	275.6	4	1500.0	1500.0
93	1	1	11	323.0	5.40	276.9	3	1500.0	1500.0
93	1	1	12	327.0	5.00	277.4	3	1500.0	1500.0
93	1	1	13	325.0	7.20	278.2	4	1500.0	1500.0
93	1	1	14	23.0	5.10	280.2	3	1500.0	1500.0
93	1	1	15	63.0	7.40	278.9	4	1500.0	1500.0
93	1	1	16	85.0	8.50	275.0	4	1500.0	1500.0
93	1	1	17	59.0	8.70	274.9	4	1500.0	1500.0
93	1	1	18	58.0	10.00	275.1	4	1250.0	1250.0
93	1	1	19	60.0	11.80	275.1	4	1475.0	1475.0
93	1	1	20	73.0	12.30	275.6	4	1500.0	1500.0
93	1	1	21	77.0	10.60	275.1	4	1325.0	1325.0
93	1	1	22	71.0	8.80	275.3	4	1100.0	1100.0
93	1	1	23	83.0	9.80	274.6	4	1225.0	1225.0
93	1	1	24	64.0	7.20	274.7	4	900.0	900.0

*** 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.

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G1 ***
INCLUDING SOURCE(S): ESHALEBH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	79.92487	(93092302)	375000.00	4751800.00	241.66200	(93081403)
377900.00	4754300.00	39.66858	(93121503)	377950.00	4751300.00	88.79402	(93102304)
371650.00	4748400.00	13.81760	(93112507)	357000.00	4743000.00	9.73185	(93121903)
376450.00	4750540.00	30.47781	(93112605)	364700.00	4746700.00	19.97565	(93121903)
364700.00	4758700.00	12.55764	(93122624)	366700.00	4742700.00	7.46438	(93120601)
366700.00	4758700.00	15.23203	(93030319)	370700.00	4747700.00	9.49138	(93112507)
370700.00	4748700.00	11.42570	(93112507)	370700.00	4749700.00	63.44858	(93121903)
370700.00	4750700.00	72.25256	(93012218)	370700.00	4751700.00	70.44042	(93072021)
370700.00	4752700.00	68.36813	(93100224)	370700.00	4754700.00	47.38478	(93083101)
371760.00	4750600.00	99.75222	(93092806)	372700.00	4746700.00	8.24417	(93112607)
372700.00	4747700.00	12.32746	(93112607)	372700.00	4748700.00	15.44171	(93112607)
372700.00	4749700.00	27.51336	(93042704)	372700.00	4751700.00	151.45440	(93072024)
372700.00	4752700.00	138.16830	(93072903)	372700.00	4753700.00	90.34155	(93081720)
372700.00	4754700.00	50.91721	(93092402)	373200.00	4749200.00	122.01320	(93011424)
373200.00	4750200.00	42.78267	(93011408)	373200.00	4751200.00	232.32490	(93081202)
373200.00	4752200.00	211.27050	(93122721)	373700.00	4748700.00	20.14843	(93112706)
373700.00	4749700.00	36.72570	(93112607)	373700.00	4751700.00	364.09260	(93082705)
374200.00	4749200.00	26.86329	(93112502)	374200.00	4752200.00	463.36570	(93092719)
374700.00	4748700.00	9.59153	(93112703)	374700.00	4749700.00	42.96423	(93112703)
374700.00	4751700.00	812.25220	(93102302)	374700.00	4752700.00	225.70830	(93090706)
374700.00	4753700.00	44.55890	(93060422)	374700.00	4754700.00	54.63859	(93060422)
375200.00	4749200.00	14.44338	(93112703)	375200.00	4752200.00	166.78880	(93042604)
375700.00	4749700.00	15.41216	(93012123)	375700.00	4751700.00	87.54050	(93121504)
376200.00	4749200.00	10.65033	(93012207)	376300.00	4752400.00	100.21430	(93092019)
376700.00	4749700.00	16.72589	(93112605)	376700.00	4750700.00	28.20084	(93112605)
376700.00	4751700.00	109.66800	(93121701)	376700.00	4752700.00	59.44310	(93081403)
376700.00	4753700.00	62.60778	(93042604)	376700.00	4754700.00	46.05507	(93122103)
376700.00	4758700.00	18.44709	(93102318)	377200.00	4752200.00	100.94460	(93030403)
378700.00	4747700.00	6.25066	(93112602)	378700.00	4748700.00	10.52647	(93112605)
378700.00	4749700.00	13.02449	(93112605)	378700.00	4750700.00	53.09292	(93012008)
378700.00	4751700.00	61.48029	(93121504)	378700.00	4752700.00	37.04514	(93080102)
378700.00	4753700.00	38.36498	(93081403)	378700.00	4754700.00	37.15921	(93121503)
379400.00	4753600.00	35.98435	(93062902)	380700.00	4746700.00	28.69523	(93122003)
380700.00	4748700.00	37.73793	(93122608)	380700.00	4750700.00	41.45472	(93030203)
380700.00	4752700.00	39.81204	(93050920)	380700.00	4754700.00	26.42941	(93081403)
380700.00	4756700.00	16.85096	(93030819)	380700.00	4758700.00	12.46283	(93102302)
380889.00	4747781.00	6.56556	(93112522)	382700.00	4748700.00	5.28103	(93010405)
382700.00	4750700.00	5.33072	(93112622)	382700.00	4752700.00	5.19501	(93121504)
382700.00	4754700.00	5.08440	(93020506)	382700.00	4756700.00	4.28062	(93122401)
382700.00	4758700.00	17.52861	(93093003)	382800.00	4746400.00	24.08743	(93012503)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G1 ***
INCLUDING SOURCE(S): ESHALEBH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	13.23726	(93110903)	360000.00	4750000.00	13.36106	(93071921)
364700.00	4750700.00	22.73547	(93092002)	364700.00	4754700.00	20.51590	(93030919)
366700.00	4756700.00	14.84593	(93030119)	370700.00	4758700.00	18.56783	(93020419)
368700.00	4752700.00	39.55631	(93092122)	372700.00	4756700.00	48.46687	(93041520)
368700.00	4744700.00	4.84575	(93112507)	368700.00	4748700.00	37.03902	(93121903)
376150.00	4752050.00	79.17161	(93092302)	376200.00	4752050.00	71.34829	(93092302)
376250.00	4752050.00	62.14016	(93092302)	376100.00	4752100.00	88.05121	(93050905)
376150.00	4752100.00	80.01401	(93050905)	376250.00	4752100.00	79.18073	(93092302)
376150.00	4752150.00	85.18682	(93050905)	376200.00	4752150.00	85.72546	(93050905)
376250.00	4752150.00	81.98364	(93050905)	374900.00	4751750.00	271.25100	(93081403)
374950.00	4751775.00	255.63460	(93081403)	375000.00	4751790.00	244.94080	(93081403)
375050.00	4751775.00	195.38280	(93062902)	375100.00	4751775.00	212.75450	(93050905)
375050.00	4751800.00	229.72420	(93092019)	375100.00	4751800.00	192.31050	(93062902)
374950.00	4751850.00	230.81830	(93030520)	375000.00	4751850.00	219.60440	(93030520)
375050.00	4751850.00	170.40050	(93081403)	375100.00	4751850.00	217.71010	(93081403)
376400.00	4750490.00	31.61917	(93112605)	376450.00	4750490.00	30.34376	(93112605)
376500.00	4750490.00	28.94011	(93112605)	376400.00	4750540.00	31.88454	(93112605)
376500.00	4750540.00	29.41713	(93112605)	376550.00	4750540.00	28.58430	(93112605)
376400.00	4750590.00	32.64125	(93112605)	376450.00	4750590.00	31.47744	(93112605)
376500.00	4750590.00	30.46082	(93112605)	376450.00	4750640.00	32.78626	(93112605)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G2 ***
INCLUDING SOURCE(S): MSHALEBH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	73.53533	(93092302)	375000.00	4751800.00	220.66740	(93081403)
377900.00	4754300.00	37.27034	(93121503)	377950.00	4751300.00	57.66971	(93102304)
371650.00	4748400.00	14.18658	(93011408)	357000.00	4743000.00	9.11510	(93121903)
376450.00	4750540.00	30.57957	(93112605)	364700.00	4746700.00	17.75819	(93111107)
364700.00	4758700.00	11.95408	(93122624)	366700.00	4742700.00	7.20996	(93120601)
366700.00	4758700.00	14.01283	(93030319)	370700.00	4747700.00	9.99640	(93112507)
370700.00	4748700.00	12.07816	(93112507)	370700.00	4749700.00	46.21458	(93121903)
370700.00	4750700.00	51.88244	(93012218)	370700.00	4751700.00	52.29739	(93072024)
370700.00	4752700.00	60.72882	(93100224)	370700.00	4754700.00	44.84409	(93083101)
371760.00	4750600.00	66.95223	(93092806)	372700.00	4746700.00	8.71027	(93112607)
372700.00	4747700.00	13.02109	(93112607)	372700.00	4748700.00	16.48791	(93112607)
372700.00	4749700.00	28.64356	(93072705)	372700.00	4751700.00	99.77175	(93112003)
372700.00	4752700.00	118.16420	(93082601)	372700.00	4753700.00	55.28960	(93111405)
372700.00	4754700.00	40.84830	(93112105)	373200.00	4749200.00	79.11086	(93093023)
373200.00	4750200.00	45.24981	(93072904)	373200.00	4751200.00	124.25220	(93081202)
373200.00	4752200.00	181.85940	(93092419)	373700.00	4748700.00	21.35533	(93112706)
373700.00	4749700.00	39.50082	(93112607)	373700.00	4751700.00	220.45730	(93072004)
374200.00	4749200.00	28.51181	(93112502)	374200.00	4752200.00	346.67160	(93092319)
374700.00	4748700.00	10.49797	(93112703)	374700.00	4749700.00	45.15080	(93112703)
374700.00	4751700.00	383.14520	(93030520)	374700.00	4752700.00	193.30230	(93072703)
374700.00	4753700.00	90.22418	(93090706)	374700.00	4754700.00	30.13159	(93051701)
375200.00	4749200.00	15.48721	(93112703)	375200.00	4752200.00	113.26570	(93093003)
375700.00	4749700.00	15.18065	(93122519)	375700.00	4751700.00	82.18259	(93121504)
376200.00	4749200.00	10.70942	(93112523)	376300.00	4752400.00	95.52397	(93092019)
376700.00	4749700.00	17.18442	(93112605)	376700.00	4750700.00	28.22028	(93112605)
376700.00	4751700.00	73.79128	(93121701)	376700.00	4752700.00	61.50253	(93081403)
376700.00	4753700.00	55.19524	(93042604)	376700.00	4754700.00	23.94850	(93110820)
376700.00	4758700.00	16.69558	(93102318)	377200.00	4752200.00	61.59999	(93030403)
378700.00	4747700.00	6.49462	(93112605)	378700.00	4748700.00	10.74215	(93112605)
378700.00	4749700.00	12.91518	(93010402)	378700.00	4750700.00	43.09733	(93022602)
378700.00	4751700.00	41.91944	(93121504)	378700.00	4752700.00	26.51990	(93092302)
378700.00	4753700.00	38.91110	(93081403)	378700.00	4754700.00	29.32606	(93121503)
379400.00	4753600.00	35.05301	(93062902)	380700.00	4746700.00	28.80158	(93090519)
380700.00	4748700.00	35.55304	(93122608)	380700.00	4750700.00	33.30394	(93030201)
380700.00	4752700.00	31.39262	(93050920)	380700.00	4754700.00	26.59220	(93081403)
380700.00	4756700.00	15.14828	(93030819)	380700.00	4758700.00	10.92314	(93102302)
380889.00	4747781.00	6.50089	(93010402)	382700.00	4748700.00	19.40014	(93112601)
382700.00	4750700.00	5.43965	(93112622)	382700.00	4752700.00	5.28284	(93121504)
382700.00	4754700.00	5.14042	(93021424)	382700.00	4756700.00	4.34838	(93121503)
382700.00	4758700.00	15.22361	(93093003)	382800.00	4746400.00	23.26794	(93012503)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G2 ***
INCLUDING SOURCE(S): MSHALEBH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.18620	(93110903)	360000.00	4750000.00	12.01578	(93090204)
364700.00	4750700.00	19.48277	(93092002)	364700.00	4754700.00	19.68929	(93050524)
366700.00	4756700.00	13.79614	(93030119)	370700.00	4758700.00	17.88556	(93100219)
368700.00	4752700.00	35.60445	(93112901)	372700.00	4756700.00	45.22039	(93041520)
368700.00	4744700.00	4.94940	(93070705)	368700.00	4748700.00	29.39264	(93121903)
376150.00	4752050.00	74.19296	(93092302)	376200.00	4752050.00	67.74622	(93092302)
376250.00	4752050.00	59.86508	(93092302)	376100.00	4752100.00	81.38112	(93050905)
376150.00	4752100.00	74.35078	(93050905)	376250.00	4752100.00	73.40479	(93092302)
376150.00	4752150.00	78.90725	(93050905)	376200.00	4752150.00	79.32172	(93050905)
376250.00	4752150.00	76.01847	(93050905)	374900.00	4751750.00	246.07480	(93092019)
374950.00	4751775.00	232.59000	(93092019)	375000.00	4751790.00	221.47810	(93092019)
375050.00	4751775.00	177.72650	(93050905)	375100.00	4751775.00	193.94740	(93050905)
375050.00	4751800.00	195.62500	(93092019)	375100.00	4751800.00	168.40620	(93062902)
374950.00	4751850.00	219.40550	(93030520)	375000.00	4751850.00	150.53150	(93112106)
375050.00	4751850.00	187.45520	(93081403)	375100.00	4751850.00	201.38690	(93081403)
376400.00	4750490.00	31.72678	(93112605)	376450.00	4750490.00	30.46644	(93112605)
376500.00	4750490.00	29.08385	(93112605)	376400.00	4750540.00	31.96473	(93112605)
376500.00	4750540.00	29.52956	(93112605)	376550.00	4750540.00	28.70070	(93112605)
376400.00	4750590.00	32.67443	(93112605)	376450.00	4750590.00	31.52538	(93112605)
376500.00	4750590.00	30.51956	(93112605)	376450.00	4750640.00	32.76566	(93112605)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G3 ***
INCLUDING SOURCE(S): WSHALEBH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	72.31728	(93092302)	375000.00	4751800.00	379.81950	(93092019)
377900.00	4754300.00	51.12537	(93121503)	377950.00	4751300.00	64.66137	(93102024)
371650.00	4748400.00	14.37968	(93072904)	357000.00	4743000.00	8.53943	(93121903)
376450.00	4750540.00	30.92840	(93112602)	364700.00	4746700.00	18.85014	(93111107)
364700.00	4758700.00	10.35893	(93122624)	366700.00	4742700.00	18.23922	(93120519)
366700.00	4758700.00	11.61420	(93082620)	370700.00	4747700.00	10.19181	(93012201)
370700.00	4748700.00	12.28232	(93021020)	370700.00	4749700.00	49.79520	(93111107)
370700.00	4750700.00	58.24020	(93012218)	370700.00	4751700.00	57.12797	(93012118)
370700.00	4752700.00	54.29249	(93030107)	370700.00	4754700.00	36.00681	(93112017)
371760.00	4750600.00	77.19899	(93092806)	372700.00	4746700.00	9.09382	(93112607)
372700.00	4747700.00	13.57506	(93112607)	372700.00	4748700.00	17.31446	(93112607)
372700.00	4749700.00	109.03900	(93092224)	372700.00	4751700.00	125.16790	(93042703)
372700.00	4752700.00	96.69492	(93082601)	372700.00	4753700.00	58.88696	(93111405)
372700.00	4754700.00	19.03390	(93112105)	373200.00	4749200.00	98.84890	(93070704)
373200.00	4750200.00	153.64180	(93120522)	373200.00	4751200.00	173.18680	(93012018)
373200.00	4752200.00	147.80340	(93082404)	373700.00	4748700.00	22.30770	(93112706)
373700.00	4749700.00	41.56000	(93112607)	373700.00	4751700.00	294.21310	(93052305)
374200.00	4749200.00	29.78058	(93112502)	374200.00	4752200.00	107.26740	(93101619)
374700.00	4748700.00	11.27267	(93112703)	374700.00	4749700.00	46.50955	(93112703)
374700.00	4751700.00	581.58390	(93030520)	374700.00	4752700.00	95.94839	(93072703)
374700.00	4753700.00	90.65788	(93090706)	374700.00	4754700.00	37.86725	(93090706)
375200.00	4749200.00	16.37900	(93112703)	375200.00	4752200.00	231.08600	(93093003)
375700.00	4749700.00	12.90687	(93012207)	375700.00	4751700.00	80.04246	(93110702)
376200.00	4749200.00	11.31956	(93112523)	376300.00	4752400.00	114.12220	(93092019)
376700.00	4749700.00	17.65899	(93112602)	376700.00	4750700.00	28.47781	(93112601)
376700.00	4751700.00	72.09171	(93121701)	376700.00	4752700.00	66.13638	(93081403)
376700.00	4753700.00	81.34678	(93042604)	376700.00	4754700.00	21.22298	(93110820)
376700.00	4758700.00	16.62976	(93102318)	377200.00	4752200.00	65.23614	(93030403)
378700.00	4747700.00	6.72439	(93112602)	378700.00	4748700.00	10.96773	(93112602)
378700.00	4749700.00	12.76540	(93072104)	378700.00	4750700.00	41.90384	(93022602)
378700.00	4751700.00	39.48923	(93121504)	378700.00	4752700.00	24.71764	(93092302)
378700.00	4753700.00	43.34228	(93081403)	378700.00	4754700.00	32.30761	(93121503)
379400.00	4753600.00	36.50541	(93062902)	380700.00	4746700.00	25.15967	(93090519)
380700.00	4748700.00	30.39761	(93122608)	380700.00	4750700.00	31.74589	(93122520)
380700.00	4752700.00	34.38443	(93050920)	380700.00	4754700.00	28.69240	(93081403)
380700.00	4756700.00	16.71191	(93121503)	380700.00	4758700.00	9.24366	(93102302)
380889.00	4747781.00	10.59800	(93112705)	382700.00	4748700.00	23.56726	(93111106)
382700.00	4750700.00	5.53552	(93020405)	382700.00	4752700.00	5.38557	(93110702)
382700.00	4754700.00	5.11510	(93021424)	382700.00	4756700.00	4.44035	(93121503)
382700.00	4758700.00	15.88101	(93093003)	382800.00	4746400.00	21.58046	(93012503)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G3 ***
INCLUDING SOURCE(S): WSHALEBH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.54241	(93110903)	360000.00	4750000.00	12.26803	(93012019)
364700.00	4750700.00	19.87730	(93092002)	364700.00	4754700.00	18.08588	(93050524)
366700.00	4756700.00	11.88457	(93020501)	370700.00	4758700.00	9.40611	(93100219)
368700.00	4752700.00	34.11307	(93112901)	372700.00	4756700.00	25.32840	(93061204)
368700.00	4744700.00	4.98001	(93092224)	368700.00	4748700.00	30.81381	(93111107)
376150.00	4752050.00	71.16788	(93092302)	376200.00	4752050.00	61.55355	(93092302)
376250.00	4752050.00	50.66664	(93092302)	376100.00	4752100.00	77.06973	(93050905)
376150.00	4752100.00	67.63359	(93092302)	376250.00	4752100.00	72.21637	(93092302)
376150.00	4752150.00	76.81047	(93050905)	376200.00	4752150.00	76.88231	(93050905)
376250.00	4752150.00	71.34469	(93050905)	374900.00	4751750.00	436.85020	(93092019)
374950.00	4751775.00	408.91600	(93092019)	375000.00	4751790.00	319.52260	(93092019)
375050.00	4751775.00	246.14910	(93050905)	375100.00	4751775.00	306.77160	(93050905)
375050.00	4751800.00	301.80100	(93062902)	375100.00	4751800.00	180.22090	(93050905)
374950.00	4751850.00	258.20200	(93112106)	375000.00	4751850.00	245.89530	(93122401)
375050.00	4751850.00	320.02940	(93081403)	375100.00	4751850.00	326.06970	(93092019)
376400.00	4750490.00	32.07841	(93112602)	376450.00	4750490.00	30.82162	(93112602)
376500.00	4750490.00	29.44628	(93112602)	376400.00	4750540.00	32.30647	(93112602)
376500.00	4750540.00	29.87876	(93112602)	376550.00	4750540.00	29.04622	(93112602)
376400.00	4750590.00	32.99433	(93112602)	376450.00	4750590.00	31.84770	(93112602)
376500.00	4750590.00	30.84195	(93112602)	376450.00	4750640.00	33.05277	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G4 ***
INCLUDING SOURCE(S): CS1_1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	5.61222	(93081819)	375000.00	4751800.00	18.36462	(93081522)
377900.00	4754300.00	7.56510	(93070204)	377950.00	4751300.00	17.55350	(93032501)
371650.00	4748400.00	23.57130	(93091119)	357000.00	4743000.00	2.58255	(93012006)
376450.00	4750540.00	32.67155	(93112602)	364700.00	4746700.00	5.58091	(93020520)
364700.00	4758700.00	1.85878	(93101605)	366700.00	4742700.00	6.22180	(93070705)
366700.00	4758700.00	2.33660	(93042721)	370700.00	4747700.00	17.53605	(93032823)
370700.00	4748700.00	20.51592	(93080103)	370700.00	4749700.00	6.66061	(93072624)
370700.00	4750700.00	4.96520	(93090703)	370700.00	4751700.00	4.73589	(93080805)
370700.00	4752700.00	5.36497	(93072120)	370700.00	4754700.00	4.36146	(93042721)
371760.00	4750600.00	5.78371	(93072824)	372700.00	4746700.00	8.92378	(93112607)
372700.00	4747700.00	15.92167	(93070704)	372700.00	4748700.00	17.03314	(93112607)
372700.00	4749700.00	14.03622	(93033019)	372700.00	4751700.00	7.28203	(93073024)
372700.00	4752700.00	5.84602	(93082820)	372700.00	4753700.00	4.18329	(93072723)
372700.00	4754700.00	2.67248	(93082723)	373200.00	4749200.00	9.85589	(93071321)
373200.00	4750200.00	16.97860	(93081423)	373200.00	4751200.00	8.49485	(93080422)
373200.00	4752200.00	8.71672	(93072622)	373700.00	4748700.00	20.22582	(93072704)
373700.00	4749700.00	40.94878	(93102206)	373700.00	4751700.00	12.56659	(93080224)
374200.00	4749200.00	30.46350	(93101703)	374200.00	4752200.00	12.89197	(93072220)
374700.00	4748700.00	13.20733	(93112703)	374700.00	4749700.00	62.03121	(93080705)
374700.00	4751700.00	18.00120	(93090217)	374700.00	4752700.00	7.47347	(93090819)
374700.00	4753700.00	4.92409	(93052120)	374700.00	4754700.00	4.48688	(93011405)
375200.00	4749200.00	19.10692	(93112703)	375200.00	4752200.00	12.31037	(93090822)
375700.00	4749700.00	14.37981	(93020406)	375700.00	4751700.00	55.90092	(93092019)
376200.00	4749200.00	13.12350	(93020406)	376300.00	4752400.00	6.96678	(93091020)
376700.00	4749700.00	18.89665	(93112602)	376700.00	4750700.00	29.42617	(93112601)
376700.00	4751700.00	5.39699	(93090921)	376700.00	4752700.00	5.11070	(93091020)
376700.00	4753700.00	8.59108	(93041903)	376700.00	4754700.00	3.89372	(93121924)
376700.00	4758700.00	3.59196	(93122005)	377200.00	4752200.00	5.56190	(93090905)
378700.00	4747700.00	6.80503	(93112602)	378700.00	4748700.00	34.83507	(93101624)
378700.00	4749700.00	29.01250	(93010405)	378700.00	4750700.00	16.44838	(93030203)
378700.00	4751700.00	10.29060	(93111118)	378700.00	4752700.00	5.11073	(93090905)
378700.00	4753700.00	6.19679	(93060421)	378700.00	4754700.00	6.19750	(93100523)
379400.00	4753600.00	8.05501	(93092019)	380700.00	4746700.00	9.33670	(93082603)
380700.00	4748700.00	13.29275	(93010405)	380700.00	4750700.00	12.85948	(93102304)
380700.00	4752700.00	4.16280	(93050920)	380700.00	4754700.00	5.34397	(93060421)
380700.00	4756700.00	4.44339	(93093003)	380700.00	4758700.00	1.48776	(93061421)
380889.00	4747781.00	21.23036	(93072104)	382700.00	4748700.00	14.26573	(93112601)
382700.00	4750700.00	19.45344	(93102304)	382700.00	4752700.00	10.76793	(93110702)
382700.00	4754700.00	10.48587	(93062902)	382700.00	4756700.00	10.02371	(93030520)
382700.00	4758700.00	5.40581	(93093003)	382800.00	4746400.00	9.64885	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G4 ***
INCLUDING SOURCE(S): CS1_1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	4.09325	(93091224)	360000.00	4750000.00	4.20172	(93092002)
364700.00	4750700.00	3.47658	(93062304)	364700.00	4754700.00	3.21861	(93050820)
366700.00	4756700.00	2.02450	(93101605)	370700.00	4758700.00	1.66664	(93111403)
368700.00	4752700.00	4.63934	(93080424)	372700.00	4756700.00	3.09065	(93020222)
368700.00	4744700.00	11.76608	(93070705)	368700.00	4748700.00	4.47088	(93081203)
376150.00	4752050.00	5.79412	(93081819)	376200.00	4752050.00	5.50363	(93080520)
376250.00	4752050.00	5.69715	(93080520)	376100.00	4752100.00	6.14604	(93081520)
376150.00	4752100.00	5.74178	(93081819)	376250.00	4752100.00	5.40659	(93081819)
376150.00	4752150.00	6.06384	(93081520)	376200.00	4752150.00	5.87829	(93081520)
376250.00	4752150.00	5.50258	(93081520)	374900.00	4751750.00	19.81508	(93071621)
374950.00	4751775.00	18.82826	(93071723)	375000.00	4751790.00	18.51098	(93070120)
375050.00	4751775.00	17.47611	(93080522)	375100.00	4751775.00	16.41287	(93090222)
375050.00	4751800.00	17.67633	(93080620)	375100.00	4751800.00	17.29509	(93081523)
374950.00	4751850.00	17.13025	(93080621)	375000.00	4751850.00	18.22810	(93081521)
375050.00	4751850.00	17.54211	(93081522)	375100.00	4751850.00	17.31902	(93080620)
376400.00	4750490.00	33.93805	(93112602)	376450.00	4750490.00	32.54279	(93112602)
376500.00	4750490.00	31.05714	(93112602)	376400.00	4750540.00	34.19225	(93112602)
376500.00	4750540.00	31.48105	(93112602)	376550.00	4750540.00	30.50599	(93112602)
376400.00	4750590.00	34.87840	(93112602)	376450.00	4750590.00	33.54109	(93112602)
376500.00	4750590.00	32.36005	(93112601)	376450.00	4750640.00	34.37491	(93020405)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G5 ***
INCLUDING SOURCE(S): CS1_2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	5.57186	(93081819)	375000.00	4751800.00	18.21671	(93081522)
377900.00	4754300.00	7.57938	(93070204)	377950.00	4751300.00	6.39663	(93061301)
371650.00	4748400.00	23.65344	(93091119)	357000.00	4743000.00	2.59090	(93012006)
376450.00	4750540.00	32.60148	(93112602)	364700.00	4746700.00	5.59546	(93020520)
364700.00	4758700.00	1.85094	(93101605)	366700.00	4742700.00	6.22078	(93070705)
366700.00	4758700.00	2.31977	(93042721)	370700.00	4747700.00	17.60015	(93032823)
370700.00	4748700.00	20.32242	(93080103)	370700.00	4749700.00	6.65623	(93072624)
370700.00	4750700.00	4.97041	(93072923)	370700.00	4751700.00	4.80445	(93052704)
370700.00	4752700.00	5.19273	(93072120)	370700.00	4754700.00	4.41697	(93042721)
371760.00	4750600.00	5.98414	(93072824)	372700.00	4746700.00	8.95324	(93112607)
372700.00	4747700.00	15.79696	(93070704)	372700.00	4748700.00	17.12223	(93112607)
372700.00	4749700.00	14.28079	(93020202)	372700.00	4751700.00	7.14300	(93073024)
372700.00	4752700.00	5.75788	(93082820)	372700.00	4753700.00	4.13712	(93072723)
372700.00	4754700.00	2.71186	(93082723)	373200.00	4749200.00	9.80339	(93071321)
373200.00	4750200.00	17.76112	(93081423)	373200.00	4751200.00	8.08288	(93080422)
373200.00	4752200.00	8.27997	(93072622)	373700.00	4748700.00	20.34219	(93072704)
373700.00	4749700.00	41.16617	(93102206)	373700.00	4751700.00	12.92608	(93080224)
374200.00	4749200.00	30.67863	(93020605)	374200.00	4752200.00	9.60259	(93081901)
374700.00	4748700.00	13.27410	(93112703)	374700.00	4749700.00	65.27845	(93080705)
374700.00	4751700.00	18.23881	(93090217)	374700.00	4752700.00	7.24893	(93090819)
374700.00	4753700.00	4.93033	(93072301)	374700.00	4754700.00	4.39121	(93011405)
375200.00	4749200.00	19.19411	(93112703)	375200.00	4752200.00	12.20822	(93090822)
375700.00	4749700.00	14.41935	(93020406)	375700.00	4751700.00	55.27111	(93092019)
376200.00	4749200.00	13.14562	(93020406)	376300.00	4752400.00	6.95960	(93091020)
376700.00	4749700.00	18.89623	(93112602)	376700.00	4750700.00	29.34369	(93112601)
376700.00	4751700.00	5.32793	(93090921)	376700.00	4752700.00	5.06758	(93091020)
376700.00	4753700.00	8.58483	(93041903)	376700.00	4754700.00	3.88324	(93121924)
376700.00	4758700.00	3.58413	(93122005)	377200.00	4752200.00	5.54324	(93090905)
378700.00	4747700.00	6.80635	(93112602)	378700.00	4748700.00	34.14403	(93101624)
378700.00	4749700.00	29.52042	(93022604)	378700.00	4750700.00	16.27828	(93030203)
378700.00	4751700.00	4.41612	(93073103)	378700.00	4752700.00	5.08466	(93090905)
378700.00	4753700.00	6.09748	(93060421)	378700.00	4754700.00	6.24501	(93100523)
379400.00	4753600.00	8.03959	(93092019)	380700.00	4746700.00	12.83429	(93082603)
380700.00	4748700.00	13.44510	(93010405)	380700.00	4750700.00	12.14263	(93021501)
380700.00	4752700.00	4.19691	(93080102)	380700.00	4754700.00	5.35904	(93060421)
380700.00	4756700.00	4.46564	(93093003)	380700.00	4758700.00	1.48708	(93061421)
380889.00	4747781.00	21.53545	(93072104)	382700.00	4748700.00	14.25698	(93112601)
382700.00	4750700.00	12.64910	(93090605)	382700.00	4752700.00	10.63982	(93110702)
382700.00	4754700.00	10.56107	(93062902)	382700.00	4756700.00	10.06899	(93030520)
382700.00	4758700.00	5.39864	(93093003)	382800.00	4746400.00	9.64246	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G5 ***
INCLUDING SOURCE(S): CS1_2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	4.11495	(93091224)	360000.00	4750000.00	4.21973	(93092002)
364700.00	4750700.00	3.45519	(93062304)	364700.00	4754700.00	3.23598	(93050820)
366700.00	4756700.00	2.05097	(93101605)	370700.00	4758700.00	1.66159	(93111403)
368700.00	4752700.00	4.63302	(93080424)	372700.00	4756700.00	2.23045	(93041520)
368700.00	4744700.00	11.79028	(93070705)	368700.00	4748700.00	4.44421	(93081203)
376150.00	4752050.00	5.77961	(93081819)	376200.00	4752050.00	5.49496	(93081819)
376250.00	4752050.00	5.59984	(93080520)	376100.00	4752100.00	6.16082	(93081520)
376150.00	4752100.00	5.79743	(93081520)	376250.00	4752100.00	5.38755	(93081819)
376150.00	4752150.00	6.02337	(93081520)	376200.00	4752150.00	5.88958	(93081520)
376250.00	4752150.00	5.55886	(93081520)	374900.00	4751750.00	19.62304	(93071621)
374950.00	4751775.00	18.70224	(93081521)	375000.00	4751790.00	18.33452	(93070120)
375050.00	4751775.00	17.19286	(93080522)	375100.00	4751775.00	16.42308	(93081523)
375050.00	4751800.00	17.63384	(93080620)	375100.00	4751800.00	16.17500	(93081523)
374950.00	4751850.00	17.04842	(93080621)	375000.00	4751850.00	18.07538	(93081521)
375050.00	4751850.00	17.40287	(93081522)	375100.00	4751850.00	17.22969	(93080620)
376400.00	4750490.00	33.87357	(93112602)	376450.00	4750490.00	32.47950	(93112602)
376500.00	4750490.00	30.99552	(93112602)	376400.00	4750540.00	34.11673	(93112602)
376500.00	4750540.00	31.41255	(93112602)	376550.00	4750540.00	30.43880	(93112602)
376400.00	4750590.00	34.79359	(93112602)	376450.00	4750590.00	33.43691	(93112601)
376500.00	4750590.00	32.28327	(93112601)	376450.00	4750640.00	34.28697	(93020405)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G6 ***
INCLUDING SOURCE(S): CS2_1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	4.65328	(93041011)	375000.00	4751800.00	8.77527	(93101407)
377900.00	4754300.00	2.70256	(93051102)	377950.00	4751300.00	3.41861	(93080519)
371650.00	4748400.00	11.80930	(93091119)	357000.00	4743000.00	2.03782	(93012006)
376450.00	4750540.00	33.42749	(93112601)	364700.00	4746700.00	3.97418	(93012006)
364700.00	4758700.00	1.84608	(93102919)	366700.00	4742700.00	4.37617	(93070705)
366700.00	4758700.00	1.84252	(93042020)	370700.00	4747700.00	9.83488	(93011503)
370700.00	4748700.00	9.66646	(93123005)	370700.00	4749700.00	3.05751	(93091703)
370700.00	4750700.00	3.29460	(93072923)	370700.00	4751700.00	3.82123	(93092107)
370700.00	4752700.00	3.97559	(93030802)	370700.00	4754700.00	3.24422	(93083020)
371760.00	4750600.00	3.73774	(93051909)	372700.00	4746700.00	9.11323	(93112607)
372700.00	4747700.00	12.07592	(93070704)	372700.00	4748700.00	17.47732	(93112607)
372700.00	4749700.00	5.52991	(93122804)	372700.00	4751700.00	5.06974	(93102209)
372700.00	4752700.00	4.17748	(93073118)	372700.00	4753700.00	3.21919	(93040605)
372700.00	4754700.00	2.13606	(93022021)	373200.00	4749200.00	5.43051	(93062019)
373200.00	4750200.00	7.48469	(93072518)	373200.00	4751200.00	5.78789	(93071607)
373200.00	4752200.00	4.79111	(93072122)	373700.00	4748700.00	20.04926	(93072704)
373700.00	4749700.00	11.27632	(93071321)	373700.00	4751700.00	8.70564	(93081507)
374200.00	4749200.00	31.67948	(93070702)	374200.00	4752200.00	7.36832	(93083006)
374700.00	4748700.00	13.78129	(93112703)	374700.00	4749700.00	16.39314	(93062017)
374700.00	4751700.00	8.35915	(93081216)	374700.00	4752700.00	5.19728	(93061120)
374700.00	4753700.00	3.46269	(93072301)	374700.00	4754700.00	3.37315	(93081601)
375200.00	4749200.00	20.01105	(93112703)	375200.00	4752200.00	6.31634	(93061119)
375700.00	4749700.00	15.13236	(93020406)	375700.00	4751700.00	51.24582	(93092019)
376200.00	4749200.00	13.60186	(93020406)	376300.00	4752400.00	4.22702	(93082421)
376700.00	4749700.00	19.42395	(93112602)	376700.00	4750700.00	29.96524	(93112601)
376700.00	4751700.00	3.25889	(93061318)	376700.00	4752700.00	3.14787	(93062922)
376700.00	4753700.00	3.28581	(93081521)	376700.00	4754700.00	2.90670	(93060124)
376700.00	4758700.00	1.78498	(93020319)	377200.00	4752200.00	3.48760	(93052223)
378700.00	4747700.00	6.92284	(93112602)	378700.00	4748700.00	29.99222	(93101624)
378700.00	4749700.00	31.13598	(93022604)	378700.00	4750700.00	3.14232	(93082619)
378700.00	4751700.00	2.44240	(93101218)	378700.00	4752700.00	2.91134	(93090905)
378700.00	4753700.00	2.72120	(93071524)	378700.00	4754700.00	2.70316	(93030521)
379400.00	4753600.00	4.12164	(93092019)	380700.00	4746700.00	12.12012	(93082603)
380700.00	4748700.00	12.47002	(93010405)	380700.00	4750700.00	2.88101	(93080802)
380700.00	4752700.00	2.42979	(93080102)	380700.00	4754700.00	2.49653	(93060421)
380700.00	4756700.00	2.83845	(93093003)	380700.00	4758700.00	1.02235	(93061421)
380889.00	4747781.00	21.50471	(93072104)	382700.00	4748700.00	14.91380	(93073104)
382700.00	4750700.00	9.41485	(93090605)	382700.00	4752700.00	7.78865	(93050920)
382700.00	4754700.00	7.89084	(93062902)	382700.00	4756700.00	7.55307	(93030520)
382700.00	4758700.00	3.37465	(93093003)	382800.00	4746400.00	9.35203	(93072905)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G6 ***
INCLUDING SOURCE(S): CS2_1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	3.48555	(93091224)	360000.00	4750000.00	3.12167	(93092002)
364700.00	4750700.00	2.26071	(93121718)	364700.00	4754700.00	2.19719	(93072120)
366700.00	4756700.00	2.12009	(93101605)	370700.00	4758700.00	1.49307	(93111403)
368700.00	4752700.00	2.92948	(93092202)	372700.00	4756700.00	2.04723	(93041520)
368700.00	4744700.00	8.90318	(93070705)	368700.00	4748700.00	3.09717	(93081203)
376150.00	4752050.00	4.82341	(93041011)	376200.00	4752050.00	4.69713	(93041011)
376250.00	4752050.00	4.56762	(93081819)	376100.00	4752100.00	4.50829	(93041011)
376150.00	4752100.00	4.62454	(93041011)	376250.00	4752100.00	4.60412	(93041011)
376150.00	4752150.00	4.15875	(93041011)	376200.00	4752150.00	4.33003	(93041011)
376250.00	4752150.00	4.42227	(93041011)	374900.00	4751750.00	9.94079	(93101407)
374950.00	4751775.00	9.50780	(93101407)	375000.00	4751790.00	8.79330	(93101407)
375050.00	4751775.00	8.16078	(93090817)	375100.00	4751775.00	8.46592	(93070916)
375050.00	4751800.00	8.08263	(93090817)	375100.00	4751800.00	8.01453	(93070916)
374950.00	4751850.00	8.51037	(93070920)	375000.00	4751850.00	8.67448	(93070917)
375050.00	4751850.00	7.98131	(93101407)	375100.00	4751850.00	7.67941	(93063020)
376400.00	4750490.00	34.77493	(93112524)	376450.00	4750490.00	33.34322	(93112602)
376500.00	4750490.00	31.80022	(93112602)	376400.00	4750540.00	35.06721	(93112602)
376500.00	4750540.00	32.18702	(93112601)	376550.00	4750540.00	31.16891	(93112601)
376400.00	4750590.00	35.71375	(93112601)	376450.00	4750590.00	34.29625	(93112601)
376500.00	4750590.00	33.08476	(93112601)	376450.00	4750640.00	34.98302	(93020405)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G7 ***
INCLUDING SOURCE(S): CS2_2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	4.61532	(93041011)	375000.00	4751800.00	9.36734	(93061119)
377900.00	4754300.00	2.68268	(93051102)	377950.00	4751300.00	3.35552	(93080519)
371650.00	4748400.00	20.87005	(93091119)	357000.00	4743000.00	2.04176	(93012006)
376450.00	4750540.00	33.37154	(93112601)	364700.00	4746700.00	3.96885	(93012006)
364700.00	4758700.00	1.83691	(93102919)	366700.00	4742700.00	5.39871	(93070705)
366700.00	4758700.00	1.85005	(93042020)	370700.00	4747700.00	9.81470	(93011503)
370700.00	4748700.00	9.60883	(93123005)	370700.00	4749700.00	3.06432	(93091703)
370700.00	4750700.00	3.32350	(93072923)	370700.00	4751700.00	3.82189	(93092107)
370700.00	4752700.00	4.02014	(93030802)	370700.00	4754700.00	3.21888	(93083020)
371760.00	4750600.00	3.72043	(93051909)	372700.00	4746700.00	9.14119	(93112607)
372700.00	4747700.00	14.17201	(93070704)	372700.00	4748700.00	17.56110	(93112607)
372700.00	4749700.00	5.52529	(93122804)	372700.00	4751700.00	5.18800	(93102209)
372700.00	4752700.00	4.25243	(93073118)	372700.00	4753700.00	3.25831	(93040605)
372700.00	4754700.00	2.10201	(93082723)	373200.00	4749200.00	7.33487	(93062019)
373200.00	4750200.00	7.60167	(93072518)	373200.00	4751200.00	5.88216	(93052908)
373200.00	4752200.00	4.83058	(93080322)	373700.00	4748700.00	20.15470	(93072704)
373700.00	4749700.00	32.89992	(93042803)	373700.00	4751700.00	8.62582	(93081507)
374200.00	4749200.00	31.89407	(93070702)	374200.00	4752200.00	7.38694	(93083006)
374700.00	4748700.00	13.84908	(93112703)	374700.00	4749700.00	53.96288	(93080705)
374700.00	4751700.00	11.65927	(93030115)	374700.00	4752700.00	5.20662	(93061120)
374700.00	4753700.00	3.49287	(93072301)	374700.00	4754700.00	3.33613	(93081601)
375200.00	4749200.00	20.10237	(93112703)	375200.00	4752200.00	10.17446	(93081420)
375700.00	4749700.00	15.17673	(93020406)	375700.00	4751700.00	50.76694	(93092019)
376200.00	4749200.00	13.62705	(93020406)	376300.00	4752400.00	4.17328	(93082421)
376700.00	4749700.00	19.42914	(93112602)	376700.00	4750700.00	29.89657	(93112601)
376700.00	4751700.00	3.29386	(93061318)	376700.00	4752700.00	3.16510	(93062922)
376700.00	4753700.00	3.28159	(93081521)	376700.00	4754700.00	3.20586	(93060124)
376700.00	4758700.00	1.78383	(93020319)	377200.00	4752200.00	3.46877	(93090419)
378700.00	4747700.00	6.92519	(93112602)	378700.00	4748700.00	28.69846	(93101624)
378700.00	4749700.00	31.06828	(93022604)	378700.00	4750700.00	3.10370	(93082619)
378700.00	4751700.00	2.49418	(93101218)	378700.00	4752700.00	2.87098	(93090905)
378700.00	4753700.00	2.73312	(93071524)	378700.00	4754700.00	2.70566	(93030521)
379400.00	4753600.00	4.06426	(93092019)	380700.00	4746700.00	12.04219	(93082603)
380700.00	4748700.00	12.40139	(93010405)	380700.00	4750700.00	2.92062	(93080802)
380700.00	4752700.00	2.48847	(93080102)	380700.00	4754700.00	2.48911	(93060421)
380700.00	4756700.00	2.84912	(93093003)	380700.00	4758700.00	1.02265	(93061421)
380889.00	4747781.00	21.50232	(93072104)	382700.00	4748700.00	15.17033	(93073104)
382700.00	4750700.00	9.43164	(93090605)	382700.00	4752700.00	7.96662	(93050920)
382700.00	4754700.00	7.90474	(93062902)	382700.00	4756700.00	7.56916	(93030520)
382700.00	4758700.00	3.36606	(93093003)	382800.00	4746400.00	9.52468	(93072905)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G7 ***
INCLUDING SOURCE(S): CS2_2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	3.49702	(93091224)	360000.00	4750000.00	3.12316	(93092002)
364700.00	4750700.00	2.28951	(93121718)	364700.00	4754700.00	2.17200	(93072120)
366700.00	4756700.00	2.14079	(93101605)	370700.00	4758700.00	1.48628	(93111403)
368700.00	4752700.00	2.88996	(93092202)	372700.00	4756700.00	1.99088	(93041520)
368700.00	4744700.00	11.19961	(93070705)	368700.00	4748700.00	3.06393	(93081203)
376150.00	4752050.00	4.80262	(93041011)	376200.00	4752050.00	4.69495	(93041011)
376250.00	4752050.00	4.55425	(93081819)	376100.00	4752100.00	4.43677	(93041011)
376150.00	4752100.00	4.56933	(93041011)	376250.00	4752100.00	4.58329	(93041011)
376150.00	4752150.00	4.08147	(93041011)	376200.00	4752150.00	4.26551	(93041011)
376250.00	4752150.00	4.37212	(93041011)	374900.00	4751750.00	13.81037	(93070920)
374950.00	4751775.00	11.60966	(93070920)	375000.00	4751790.00	8.82068	(93061119)
375050.00	4751775.00	8.12619	(93090817)	375100.00	4751775.00	8.37019	(93070916)
375050.00	4751800.00	8.00034	(93090817)	375100.00	4751800.00	7.87247	(93070916)
374950.00	4751850.00	12.95964	(93081420)	375000.00	4751850.00	11.12544	(93061119)
375050.00	4751850.00	8.40299	(93061119)	375100.00	4751850.00	7.63273	(93063020)
376400.00	4750490.00	34.72227	(93112524)	376450.00	4750490.00	33.29358	(93112602)
376500.00	4750490.00	31.75166	(93112602)	376400.00	4750540.00	35.00704	(93112602)
376500.00	4750540.00	32.13214	(93112601)	376550.00	4750540.00	31.11494	(93112601)
376400.00	4750590.00	35.64509	(93112601)	376450.00	4750590.00	34.22927	(93112601)
376500.00	4750590.00	33.02234	(93112601)	376450.00	4750640.00	34.90761	(93020405)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G8 ***
INCLUDING SOURCE(S): CV1_1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	9.37642	(93100423)	375000.00	4751800.00	28.58694	(93050921)
377900.00	4754300.00	16.46499	(93093003)	377950.00	4751300.00	28.61927	(93032501)
371650.00	4748400.00	24.97281	(93092424)	357000.00	4743000.00	5.29895	(93021404)
376450.00	4750540.00	38.47150	(93073104)	364700.00	4746700.00	12.34369	(93021404)
364700.00	4758700.00	2.76418	(93091801)	366700.00	4742700.00	10.99564	(93112518)
366700.00	4758700.00	3.05817	(93082520)	370700.00	4747700.00	26.32414	(93112507)
370700.00	4748700.00	27.99755	(93020424)	370700.00	4749700.00	14.80908	(93080502)
370700.00	4750700.00	20.31597	(93020107)	370700.00	4751700.00	13.36011	(93121705)
370700.00	4752700.00	12.76772	(93012403)	370700.00	4754700.00	7.86012	(93032122)
371760.00	4750600.00	18.81852	(93020203)	372700.00	4746700.00	10.61617	(93073005)
372700.00	4747700.00	14.37691	(93120518)	372700.00	4748700.00	20.31013	(93073005)
372700.00	4749700.00	41.59383	(93121904)	372700.00	4751700.00	22.72005	(93050823)
372700.00	4752700.00	15.18503	(93060702)	372700.00	4753700.00	17.52353	(93061902)
372700.00	4754700.00	9.07406	(93082103)	373200.00	4749200.00	21.64193	(93021022)
373200.00	4750200.00	55.35027	(93110324)	373200.00	4751200.00	34.09805	(93112719)
373200.00	4752200.00	20.09795	(93111021)	373700.00	4748700.00	24.87743	(93112607)
373700.00	4749700.00	45.74660	(93102206)	373700.00	4751700.00	34.26241	(93060320)
374200.00	4749200.00	37.21500	(93072105)	374200.00	4752200.00	30.16459	(93101619)
374700.00	4748700.00	15.35445	(93091919)	374700.00	4749700.00	84.27889	(93122419)
374700.00	4751700.00	23.40422	(93060517)	374700.00	4752700.00	12.80386	(93031721)
374700.00	4753700.00	7.88316	(93011405)	374700.00	4754700.00	9.31840	(93011405)
375200.00	4749200.00	22.27194	(93082403)	375200.00	4752200.00	17.82220	(93011402)
375700.00	4749700.00	16.51484	(93091519)	375700.00	4751700.00	59.47091	(93102018)
376200.00	4749200.00	15.35984	(93091519)	376300.00	4752400.00	21.97224	(93112106)
376700.00	4749700.00	22.20813	(93082903)	376700.00	4750700.00	34.73360	(93073104)
376700.00	4751700.00	18.82516	(93040502)	376700.00	4752700.00	11.55290	(93112106)
376700.00	4753700.00	18.33315	(93041903)	376700.00	4754700.00	11.89348	(93122103)
376700.00	4758700.00	8.15371	(93122005)	377200.00	4752200.00	15.64106	(93110501)
378700.00	4747700.00	8.03795	(93092120)	378700.00	4748700.00	7.19467	(93112602)
378700.00	4749700.00	32.59893	(93022604)	378700.00	4750700.00	29.35940	(93030203)
378700.00	4751700.00	16.92188	(93111118)	378700.00	4752700.00	14.91211	(93020506)
378700.00	4753700.00	15.21500	(93122401)	378700.00	4754700.00	13.93281	(93121503)
379400.00	4753600.00	17.85015	(93102018)	380700.00	4746700.00	17.49497	(93121801)
380700.00	4748700.00	21.34772	(93032506)	380700.00	4750700.00	20.91630	(93122520)
380700.00	4752700.00	17.76451	(93030403)	380700.00	4754700.00	11.60986	(93122401)
380700.00	4756700.00	9.73048	(93093003)	380700.00	4758700.00	2.36970	(93061421)
380889.00	4747781.00	22.76935	(93072104)	382700.00	4748700.00	20.65164	(93112601)
382700.00	4750700.00	9.39087	(93122508)	382700.00	4752700.00	6.43265	(93082524)
382700.00	4754700.00	13.55745	(93062902)	382700.00	4756700.00	13.99631	(93030520)
382700.00	4758700.00	10.82170	(93093003)	382800.00	4746400.00	16.01931	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G8 ***
INCLUDING SOURCE(S): CV1_1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	7.31698	(93123007)	360000.00	4750000.00	9.12523	(93092002)
364700.00	4750700.00	7.75277	(93102606)	364700.00	4754700.00	6.84413	(93031204)
366700.00	4756700.00	3.10871	(93020502)	370700.00	4758700.00	3.99863	(93062821)
368700.00	4752700.00	10.22509	(93122922)	372700.00	4756700.00	10.70243	(93020222)
368700.00	4744700.00	14.55211	(93120519)	368700.00	4748700.00	10.90077	(93121323)
376150.00	4752050.00	7.97967	(93100423)	376200.00	4752050.00	6.74423	(93042120)
376250.00	4752050.00	5.89684	(93080520)	376100.00	4752100.00	8.91314	(93100423)
376150.00	4752100.00	9.64993	(93100423)	376250.00	4752100.00	8.27711	(93100423)
376150.00	4752150.00	8.45672	(93012703)	376200.00	4752150.00	8.75117	(93100423)
376250.00	4752150.00	9.53986	(93100423)	374900.00	4751750.00	20.52318	(93101821)
374950.00	4751775.00	21.33324	(93041903)	375000.00	4751790.00	34.11726	(93050921)
375050.00	4751775.00	38.80931	(93100523)	375100.00	4751775.00	37.20106	(93111518)
375050.00	4751800.00	40.76074	(93070204)	375100.00	4751800.00	37.78516	(93100523)
374950.00	4751850.00	19.77260	(93011402)	375000.00	4751850.00	21.02932	(93041903)
375050.00	4751850.00	26.38454	(93050921)	375100.00	4751850.00	38.15903	(93070204)
376400.00	4750490.00	39.97878	(93073104)	376450.00	4750490.00	38.33419	(93073104)
376500.00	4750490.00	36.57722	(93073104)	376400.00	4750540.00	40.25571	(93073104)
376500.00	4750540.00	37.07385	(93073104)	376550.00	4750540.00	35.93468	(93073104)
376400.00	4750590.00	41.05202	(93073104)	376450.00	4750590.00	39.50724	(93073104)
376500.00	4750590.00	38.15264	(93073104)	376450.00	4750640.00	40.85077	(93073104)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G9 ***
INCLUDING SOURCE(S): CV1_2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	11.36369	(93100423)	375000.00	4751800.00	35.57384	(93050921)
377900.00	4754300.00	19.51059	(93093003)	377950.00	4751300.00	30.34448	(93032501)
371650.00	4748400.00	28.54329	(93091119)	357000.00	4743000.00	5.68670	(93021404)
376450.00	4750540.00	37.92924	(93112602)	364700.00	4746700.00	13.33820	(93021404)
364700.00	4758700.00	3.16391	(93091801)	366700.00	4742700.00	11.83625	(93112518)
366700.00	4758700.00	3.37507	(93082520)	370700.00	4747700.00	28.82595	(93112507)
370700.00	4748700.00	31.45488	(93020424)	370700.00	4749700.00	16.79713	(93080502)
370700.00	4750700.00	22.79636	(93060302)	370700.00	4751700.00	15.50420	(93121705)
370700.00	4752700.00	14.20605	(93080304)	370700.00	4754700.00	9.45935	(93032122)
371760.00	4750600.00	21.79311	(93020203)	372700.00	4746700.00	10.47613	(93112607)
372700.00	4747700.00	16.18144	(93120518)	372700.00	4748700.00	20.05467	(93112607)
372700.00	4749700.00	48.74160	(93121904)	372700.00	4751700.00	28.31380	(93060904)
372700.00	4752700.00	17.79186	(93061823)	372700.00	4753700.00	19.35419	(93061902)
372700.00	4754700.00	9.96517	(93111703)	373200.00	4749200.00	25.42776	(93021022)
373200.00	4750200.00	66.03510	(93110324)	373200.00	4751200.00	46.48513	(93072322)
373200.00	4752200.00	24.31439	(93101606)	373700.00	4748700.00	26.08034	(93020206)
373700.00	4749700.00	32.85998	(93100901)	373700.00	4751700.00	41.35054	(93060320)
374200.00	4749200.00	36.87821	(93112502)	374200.00	4752200.00	34.43643	(93101619)
374700.00	4748700.00	15.00256	(93112703)	374700.00	4749700.00	96.91497	(93091919)
374700.00	4751700.00	28.26849	(93070921)	374700.00	4752700.00	15.13140	(93051701)
374700.00	4753700.00	9.55863	(93051701)	374700.00	4754700.00	9.85005	(93011405)
375200.00	4749200.00	21.81982	(93112703)	375200.00	4752200.00	20.59173	(93032004)
375700.00	4749700.00	15.96567	(93020406)	375700.00	4751700.00	77.73104	(93092019)
376200.00	4749200.00	15.00962	(93112523)	376300.00	4752400.00	28.09985	(93063023)
376700.00	4749700.00	21.85362	(93112602)	376700.00	4750700.00	34.25214	(93112601)
376700.00	4751700.00	21.48642	(93040502)	376700.00	4752700.00	14.87992	(93063023)
376700.00	4753700.00	21.18294	(93041903)	376700.00	4754700.00	13.81362	(93122103)
376700.00	4758700.00	8.78416	(93122005)	377200.00	4752200.00	17.81317	(93110501)
378700.00	4747700.00	7.91213	(93112602)	378700.00	4748700.00	8.35851	(93072905)
378700.00	4749700.00	33.38831	(93022604)	378700.00	4750700.00	31.24930	(93030203)
378700.00	4751700.00	18.66804	(93073103)	378700.00	4752700.00	16.52267	(93020506)
378700.00	4753700.00	16.80049	(93122401)	378700.00	4754700.00	16.01381	(93121503)
379400.00	4753600.00	20.37342	(93092019)	380700.00	4746700.00	19.93950	(93082603)
380700.00	4748700.00	22.20713	(93010405)	380700.00	4750700.00	21.82686	(93122520)
380700.00	4752700.00	19.93681	(93030403)	380700.00	4754700.00	12.56742	(93122401)
380700.00	4756700.00	11.01846	(93093003)	380700.00	4758700.00	2.64688	(93050901)
380889.00	4747781.00	23.20612	(93072104)	382700.00	4748700.00	21.08806	(93090203)
382700.00	4750700.00	4.35382	(93090605)	382700.00	4752700.00	4.76630	(93082524)
382700.00	4754700.00	14.72249	(93062902)	382700.00	4756700.00	15.20723	(93030520)
382700.00	4758700.00	11.90550	(93093003)	382800.00	4746400.00	16.56032	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G9 ***
INCLUDING SOURCE(S): CV1_2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	7.82681	(93123007)	360000.00	4750000.00	9.77839	(93092002)
364700.00	4750700.00	8.69608	(93102606)	364700.00	4754700.00	7.74326	(93082804)
366700.00	4756700.00	3.36619	(93020502)	370700.00	4758700.00	4.40523	(93062821)
368700.00	4752700.00	11.42314	(93020521)	372700.00	4756700.00	11.95869	(93020222)
368700.00	4744700.00	16.01666	(93120519)	368700.00	4748700.00	12.17797	(93020520)
376150.00	4752050.00	9.66063	(93100423)	376200.00	4752050.00	7.92400	(93042120)
376250.00	4752050.00	7.01423	(93080520)	376100.00	4752100.00	10.90316	(93100423)
376150.00	4752100.00	11.74740	(93100423)	376250.00	4752100.00	9.99023	(93100423)
376150.00	4752150.00	9.74956	(93012703)	376200.00	4752150.00	10.66333	(93100423)
376250.00	4752150.00	11.57205	(93100423)	374900.00	4751750.00	24.88411	(93051101)
374950.00	4751775.00	28.33410	(93041903)	375000.00	4751790.00	42.16966	(93050921)
375050.00	4751775.00	55.34866	(93030819)	375100.00	4751775.00	56.81788	(93110505)
375050.00	4751800.00	49.53932	(93070204)	375100.00	4751800.00	54.81071	(93030819)
374950.00	4751850.00	24.03930	(93100401)	375000.00	4751850.00	28.48934	(93041903)
375050.00	4751850.00	33.36594	(93050921)	375100.00	4751850.00	45.66328	(93070204)
376400.00	4750490.00	39.42630	(93112602)	376450.00	4750490.00	37.79978	(93112602)
376500.00	4750490.00	36.06020	(93112602)	376400.00	4750540.00	39.69463	(93112602)
376500.00	4750540.00	36.54924	(93112602)	376550.00	4750540.00	35.42669	(93112602)
376400.00	4750590.00	40.48009	(93112602)	376450.00	4750590.00	38.95653	(93112602)
376500.00	4750590.00	37.61866	(93112601)	376450.00	4750640.00	40.29003	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G10 ***
INCLUDING SOURCE(S): CV2_1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	5.07672	(93041011)	375000.00	4751800.00	7.41980	(93110310)
377900.00	4754300.00	3.46936	(93070204)	377950.00	4751300.00	3.06878	(93121702)
371650.00	4748400.00	14.79884	(93092424)	357000.00	4743000.00	2.64557	(93021404)
376450.00	4750540.00	40.39818	(93073104)	364700.00	4746700.00	5.32355	(93021404)
364700.00	4758700.00	1.69705	(93020502)	366700.00	4742700.00	7.52209	(93112518)
366700.00	4758700.00	1.80051	(93082520)	370700.00	4747700.00	7.44768	(93112507)
370700.00	4748700.00	7.31896	(93123005)	370700.00	4749700.00	3.58155	(93091703)
370700.00	4750700.00	3.21809	(93122824)	370700.00	4751700.00	3.16126	(93121717)
370700.00	4752700.00	7.06751	(93012403)	370700.00	4754700.00	2.89730	(93083020)
371760.00	4750600.00	2.73217	(93051109)	372700.00	4746700.00	10.97666	(93073005)
372700.00	4747700.00	16.60459	(93070704)	372700.00	4748700.00	21.01965	(93073005)
372700.00	4749700.00	6.59968	(93020202)	372700.00	4751700.00	4.73724	(93062707)
372700.00	4752700.00	7.32056	(93101902)	372700.00	4753700.00	3.36610	(93040605)
372700.00	4754700.00	2.43851	(93022021)	373200.00	4749200.00	14.40766	(93011505)
373200.00	4750200.00	5.39757	(93011423)	373200.00	4751200.00	4.70855	(93042108)
373200.00	4752200.00	10.05257	(93111021)	373700.00	4748700.00	20.55828	(93112607)
373700.00	4749700.00	35.82077	(93102206)	373700.00	4751700.00	12.09535	(93100504)
374200.00	4749200.00	38.39072	(93020206)	374200.00	4752200.00	6.56898	(93072223)
374700.00	4748700.00	16.40509	(93091919)	374700.00	4749700.00	16.54729	(93021101)
374700.00	4751700.00	24.11946	(93041217)	374700.00	4752700.00	6.12346	(93031721)
374700.00	4753700.00	3.37582	(93031721)	374700.00	4754700.00	3.36481	(93011405)
375200.00	4749200.00	23.85062	(93082403)	375200.00	4752200.00	19.14320	(93092223)
375700.00	4749700.00	18.10497	(93091519)	375700.00	4751700.00	43.46209	(93031023)
376200.00	4749200.00	16.39548	(93091519)	376300.00	4752400.00	3.97380	(93012909)
376700.00	4749700.00	23.37201	(93082903)	376700.00	4750700.00	36.27720	(93073104)
376700.00	4751700.00	3.04926	(93032014)	376700.00	4752700.00	3.18002	(93012909)
376700.00	4753700.00	3.44950	(93051101)	376700.00	4754700.00	9.80574	(93013120)
376700.00	4758700.00	7.03247	(93122005)	377200.00	4752200.00	3.68972	(93042113)
378700.00	4747700.00	8.35008	(93092120)	378700.00	4748700.00	5.46971	(93112602)
378700.00	4749700.00	33.76250	(93022604)	378700.00	4750700.00	24.65307	(93030203)
378700.00	4751700.00	2.67975	(93031719)	378700.00	4752700.00	3.48344	(93020506)
378700.00	4753700.00	3.13739	(93121624)	378700.00	4754700.00	3.56524	(93030819)
379400.00	4753600.00	4.20656	(93092019)	380700.00	4746700.00	18.47803	(93121801)
380700.00	4748700.00	20.28577	(93032506)	380700.00	4750700.00	17.87240	(93021501)
380700.00	4752700.00	3.48534	(93030403)	380700.00	4754700.00	3.45835	(93122401)
380700.00	4756700.00	3.43664	(93093003)	380700.00	4758700.00	1.24257	(93061421)
380889.00	4747781.00	22.82314	(93072104)	382700.00	4748700.00	19.80178	(93112601)
382700.00	4750700.00	6.86111	(93102024)	382700.00	4752700.00	6.17628	(93110702)
382700.00	4754700.00	6.24262	(93062902)	382700.00	4756700.00	6.33703	(93030520)
382700.00	4758700.00	4.22890	(93093003)	382800.00	4746400.00	15.04657	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G10 ***
INCLUDING SOURCE(S): CV2_1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	3.76860	(93092004)	360000.00	4750000.00	3.97701	(93092002)
364700.00	4750700.00	2.54581	(93121718)	364700.00	4754700.00	4.20993	(93012403)
366700.00	4756700.00	2.27536	(93020502)	370700.00	4758700.00	1.83116	(93111403)
368700.00	4752700.00	2.65492	(93101104)	372700.00	4756700.00	2.53233	(93041520)
368700.00	4744700.00	9.85848	(93112518)	368700.00	4748700.00	3.34468	(93081203)
376150.00	4752050.00	5.20517	(93041011)	376200.00	4752050.00	5.01316	(93041011)
376250.00	4752050.00	4.76423	(93041011)	376100.00	4752100.00	5.04244	(93041011)
376150.00	4752100.00	5.10543	(93041011)	376250.00	4752100.00	4.96930	(93041011)
376150.00	4752150.00	4.69264	(93041011)	376200.00	4752150.00	4.82490	(93041011)
376250.00	4752150.00	4.87156	(93041011)	374900.00	4751750.00	22.74112	(93110820)
374950.00	4751775.00	12.95129	(93110310)	375000.00	4751790.00	6.95556	(93030808)
375050.00	4751775.00	6.08803	(93030116)	375100.00	4751775.00	6.16691	(93030116)
375050.00	4751800.00	5.85369	(93030116)	375100.00	4751800.00	6.03493	(93030116)
374950.00	4751850.00	23.50047	(93092223)	375000.00	4751850.00	12.45198	(93110310)
375050.00	4751850.00	6.27440	(93030808)	375100.00	4751850.00	5.56179	(93030116)
376400.00	4750490.00	42.02570	(93073104)	376450.00	4750490.00	40.25964	(93073104)
376500.00	4750490.00	38.39668	(93073104)	376400.00	4750540.00	42.33728	(93073104)
376500.00	4750540.00	38.90383	(93073104)	376550.00	4750540.00	37.67970	(93073104)
376400.00	4750590.00	43.16606	(93073104)	376450.00	4750590.00	41.45842	(93073104)
376500.00	4750590.00	40.00600	(93073104)	376450.00	4750640.00	42.77975	(93020405)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G11 ***
INCLUDING SOURCE(S): CV2_2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	5.06782	(93041011)	375000.00	4751800.00	34.15664	(93041903)
377900.00	4754300.00	5.00347	(93093003)	377950.00	4751300.00	4.13814	(93121702)
371650.00	4748400.00	29.03057	(93092424)	357000.00	4743000.00	3.18383	(93012006)
376450.00	4750540.00	39.32939	(93112602)	364700.00	4746700.00	6.62824	(93012006)
364700.00	4758700.00	2.05742	(93101605)	366700.00	4742700.00	11.30891	(93112518)
366700.00	4758700.00	2.18859	(93082520)	370700.00	4747700.00	10.92871	(93091119)
370700.00	4748700.00	9.99954	(93123005)	370700.00	4749700.00	4.53894	(93091703)
370700.00	4750700.00	4.15879	(93122824)	370700.00	4751700.00	4.20962	(93121717)
370700.00	4752700.00	4.20342	(93030802)	370700.00	4754700.00	3.87658	(93083020)
371760.00	4750600.00	4.09631	(93051909)	372700.00	4746700.00	10.75998	(93112607)
372700.00	4747700.00	14.80928	(93120518)	372700.00	4748700.00	20.65249	(93112607)
372700.00	4749700.00	9.13918	(93020202)	372700.00	4751700.00	5.14902	(93102209)
372700.00	4752700.00	8.93512	(93101902)	372700.00	4753700.00	3.73521	(93040605)
372700.00	4754700.00	2.43433	(93022021)	373200.00	4749200.00	25.94583	(93071321)
373200.00	4750200.00	7.71170	(93011423)	373200.00	4751200.00	6.25595	(93071607)
373200.00	4752200.00	16.62194	(93050924)	373700.00	4748700.00	25.65377	(93072704)
373700.00	4749700.00	52.46650	(93042803)	373700.00	4751700.00	15.26472	(93090424)
374200.00	4749200.00	38.50971	(93101703)	374200.00	4752200.00	6.29928	(93072221)
374700.00	4748700.00	15.83276	(93112703)	374700.00	4749700.00	27.75519	(93071402)
374700.00	4751700.00	28.79172	(93042118)	374700.00	4752700.00	9.34692	(93031721)
374700.00	4753700.00	4.68555	(93031721)	374700.00	4754700.00	4.12964	(93011405)
375200.00	4749200.00	23.09174	(93112703)	375200.00	4752200.00	29.28970	(93110820)
375700.00	4749700.00	17.16254	(93112523)	375700.00	4751700.00	61.91647	(93072124)
376200.00	4749200.00	15.78588	(93112523)	376300.00	4752400.00	4.07528	(93082421)
376700.00	4749700.00	22.72459	(93112602)	376700.00	4750700.00	35.32918	(93112601)
376700.00	4751700.00	3.88117	(93061019)	376700.00	4752700.00	3.22369	(93111202)
376700.00	4753700.00	21.84097	(93041903)	376700.00	4754700.00	12.20260	(93122103)
376700.00	4758700.00	7.93902	(93122005)	377200.00	4752200.00	3.78058	(93052223)
378700.00	4747700.00	8.13309	(93112602)	378700.00	4748700.00	7.32471	(93072905)
378700.00	4749700.00	35.65459	(93022604)	378700.00	4750700.00	27.74602	(93030203)
378700.00	4751700.00	3.28305	(93031719)	378700.00	4752700.00	4.87517	(93050905)
378700.00	4753700.00	3.82177	(93063023)	378700.00	4754700.00	4.75504	(93030819)
379400.00	4753600.00	6.09277	(93092019)	380700.00	4746700.00	19.68686	(93082603)
380700.00	4748700.00	21.99337	(93010405)	380700.00	4750700.00	19.05692	(93021501)
380700.00	4752700.00	4.77352	(93030403)	380700.00	4754700.00	4.42980	(93122401)
380700.00	4756700.00	4.59392	(93093003)	380700.00	4758700.00	2.95632	(93050901)
380889.00	4747781.00	23.81673	(93072104)	382700.00	4748700.00	20.78016	(93090203)
382700.00	4750700.00	8.92602	(93090605)	382700.00	4752700.00	7.85852	(93110702)
382700.00	4754700.00	7.91304	(93062902)	382700.00	4756700.00	7.98475	(93030520)
382700.00	4758700.00	5.42824	(93093003)	382800.00	4746400.00	16.06849	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G11 ***
INCLUDING SOURCE(S): CV2_2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	4.63180	(93091224)	360000.00	4750000.00	4.90459	(93092002)
364700.00	4750700.00	3.36290	(93081305)	364700.00	4754700.00	3.16428	(93082804)
366700.00	4756700.00	2.78955	(93020502)	370700.00	4758700.00	2.25910	(93111403)
368700.00	4752700.00	3.34384	(93092202)	372700.00	4756700.00	3.72670	(93020222)
368700.00	4744700.00	15.85273	(93112518)	368700.00	4748700.00	4.20169	(93081203)
376150.00	4752050.00	5.18924	(93041011)	376200.00	4752050.00	4.99426	(93041011)
376250.00	4752050.00	4.74326	(93041011)	376100.00	4752100.00	5.04295	(93041011)
376150.00	4752100.00	5.10099	(93041011)	376250.00	4752100.00	4.95666	(93041011)
376150.00	4752150.00	4.69913	(93041011)	376200.00	4752150.00	4.82652	(93041011)
376250.00	4752150.00	4.86858	(93041011)	374900.00	4751750.00	38.13200	(93110820)
374950.00	4751775.00	28.50987	(93032004)	375000.00	4751790.00	40.80796	(93041903)
375050.00	4751775.00	25.40315	(93101321)	375100.00	4751775.00	17.10510	(93101321)
375050.00	4751800.00	31.18308	(93041903)	375100.00	4751800.00	22.25736	(93101321)
374950.00	4751850.00	40.98141	(93092223)	375000.00	4751850.00	31.76835	(93032004)
375050.00	4751850.00	36.94556	(93041903)	375100.00	4751850.00	27.83047	(93041903)
376400.00	4750490.00	40.92510	(93112602)	376450.00	4750490.00	39.20900	(93112602)
376500.00	4750490.00	37.38445	(93112602)	376400.00	4750540.00	41.21518	(93112602)
376500.00	4750540.00	37.87137	(93112601)	376550.00	4750540.00	36.68226	(93112601)
376400.00	4750590.00	42.01812	(93112601)	376450.00	4750590.00	40.36396	(93112601)
376500.00	4750590.00	38.95196	(93112601)	376450.00	4750640.00	41.72621	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G12 ***
INCLUDING SOURCE(S): DISCSBH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	61.43808	(93102018)	375000.00	4751800.00	334.43210	(93102302)
377900.00	4754300.00	59.57330	(93093003)	377950.00	4751300.00	46.41029	(93032501)
371650.00	4748400.00	26.63345	(93122418)	357000.00	4743000.00	9.23863	(93020520)
376450.00	4750540.00	35.42613	(93112605)	364700.00	4746700.00	21.07170	(93020520)
364700.00	4758700.00	8.77781	(93122624)	366700.00	4742700.00	18.73557	(93070705)
366700.00	4758700.00	9.71821	(93082620)	370700.00	4747700.00	10.27495	(93011908)
370700.00	4748700.00	12.25990	(93011503)	370700.00	4749700.00	57.32090	(93092004)
370700.00	4750700.00	56.34194	(93071405)	370700.00	4751700.00	55.56627	(93042703)
370700.00	4752700.00	47.23429	(93031204)	370700.00	4754700.00	30.30323	(93081304)
371760.00	4750600.00	77.09107	(93030106)	372700.00	4746700.00	9.30923	(93112607)
372700.00	4747700.00	13.93440	(93112607)	372700.00	4748700.00	17.69623	(93112607)
372700.00	4749700.00	128.81600	(93042704)	372700.00	4751700.00	98.00252	(93110918)
372700.00	4752700.00	71.69221	(93082303)	372700.00	4753700.00	49.79110	(93111405)
372700.00	4754700.00	26.59137	(93112105)	373200.00	4749200.00	112.40300	(93073005)
373200.00	4750200.00	182.80970	(93011818)	373200.00	4751200.00	143.38700	(93012019)
373200.00	4752200.00	110.76290	(93012422)	373700.00	4748700.00	23.74835	(93112607)
373700.00	4749700.00	44.72739	(93112607)	373700.00	4751700.00	176.12790	(93080304)
374200.00	4749200.00	32.77356	(93112502)	374200.00	4752200.00	150.67970	(93091106)
374700.00	4748700.00	12.26537	(93112703)	374700.00	4749700.00	54.95320	(93112703)
374700.00	4751700.00	358.59260	(93040203)	374700.00	4752700.00	55.27777	(93051701)
374700.00	4753700.00	34.24586	(93060422)	374700.00	4754700.00	50.67716	(93060422)
375200.00	4749200.00	18.47757	(93112703)	375200.00	4752200.00	147.68220	(93110820)
375700.00	4749700.00	16.47658	(93012207)	375700.00	4751700.00	89.70863	(93110702)
376200.00	4749200.00	12.58905	(93112523)	376300.00	4752400.00	87.99296	(93112106)
376700.00	4749700.00	19.72656	(93112605)	376700.00	4750700.00	32.02471	(93112601)
376700.00	4751700.00	89.21358	(93110702)	376700.00	4752700.00	59.28672	(93030520)
376700.00	4753700.00	65.20517	(93102302)	376700.00	4754700.00	35.08826	(93122103)
376700.00	4758700.00	15.97944	(93122005)	377200.00	4752200.00	69.09496	(93092302)
378700.00	4747700.00	7.04881	(93112605)	378700.00	4748700.00	11.59552	(93112605)
378700.00	4749700.00	13.64318	(93052605)	378700.00	4750700.00	42.03262	(93030203)
378700.00	4751700.00	41.33538	(93111002)	378700.00	4752700.00	50.80791	(93050905)
378700.00	4753700.00	34.30445	(93122401)	378700.00	4754700.00	35.45335	(93121503)
379400.00	4753600.00	49.65393	(93092019)	380700.00	4746700.00	29.12651	(93082603)
380700.00	4748700.00	25.63417	(93010405)	380700.00	4750700.00	28.21710	(93122520)
380700.00	4752700.00	39.34509	(93030403)	380700.00	4754700.00	24.31134	(93122401)
380700.00	4756700.00	25.56192	(93093003)	380700.00	4758700.00	11.43208	(93072103)
380889.00	4747781.00	7.31290	(93112603)	382700.00	4748700.00	5.00165	(93073104)
382700.00	4750700.00	5.66174	(93112622)	382700.00	4752700.00	5.45825	(93121504)
382700.00	4754700.00	5.16799	(93030403)	382700.00	4756700.00	4.42159	(93121503)
382700.00	4758700.00	20.43967	(93093003)	382800.00	4746400.00	22.58354	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G12 ***
INCLUDING SOURCE(S): DISCSBH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.26477	(93110903)	360000.00	4750000.00	13.99780	(93092002)
364700.00	4750700.00	19.64629	(93102606)	364700.00	4754700.00	16.30718	(93031204)
366700.00	4756700.00	9.55529	(93020501)	370700.00	4758700.00	11.43041	(93100219)
368700.00	4752700.00	29.84121	(93111003)	372700.00	4756700.00	32.69240	(93041520)
368700.00	4744700.00	10.65161	(93120601)	368700.00	4748700.00	33.06426	(93110903)
376150.00	4752050.00	56.23907	(93102018)	376200.00	4752050.00	50.09304	(93072124)
376250.00	4752050.00	50.14371	(93062902)	376100.00	4752100.00	63.08980	(93100902)
376150.00	4752100.00	62.81255	(93100902)	376250.00	4752100.00	56.27017	(93102018)
376150.00	4752150.00	52.08757	(93031023)	376200.00	4752150.00	58.76582	(93100902)
376250.00	4752150.00	58.97515	(93100902)	374900.00	4751750.00	284.96690	(93110820)
374950.00	4751775.00	354.41790	(93050901)	375000.00	4751790.00	329.28980	(93102302)
375050.00	4751775.00	333.85430	(93042604)	375100.00	4751775.00	267.03630	(93030819)
375050.00	4751800.00	241.30030	(93042604)	375100.00	4751800.00	291.63300	(93093003)
374950.00	4751850.00	254.41460	(93092223)	375000.00	4751850.00	265.73060	(93050901)
375050.00	4751850.00	298.16880	(93102302)	375100.00	4751850.00	225.73470	(93042604)
376400.00	4750490.00	36.91937	(93112605)	376450.00	4750490.00	35.31298	(93112605)
376500.00	4750490.00	33.61168	(93112605)	376400.00	4750540.00	37.20407	(93112605)
376500.00	4750540.00	34.09887	(93112605)	376550.00	4750540.00	33.03457	(93112605)
376400.00	4750590.00	38.01731	(93112605)	376450.00	4750590.00	36.49662	(93112605)
376500.00	4750590.00	35.19310	(93112605)	376450.00	4750640.00	37.89477	(93112605)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G13 ***
INCLUDING SOURCE(S): DISCNBH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	60.71847	(93102018)	375000.00	4751800.00	327.25820	(93102302)
377900.00	4754300.00	59.25264	(93093003)	377950.00	4751300.00	46.09211	(93032501)
371650.00	4748400.00	27.00373	(93122418)	357000.00	4743000.00	9.19697	(93020520)
376450.00	4750540.00	35.29556	(93112605)	364700.00	4746700.00	20.99579	(93020520)
364700.00	4758700.00	8.81800	(93122624)	366700.00	4742700.00	18.84042	(93070705)
366700.00	4758700.00	9.70173	(93082620)	370700.00	4747700.00	10.26551	(93021019)
370700.00	4748700.00	12.25132	(93011503)	370700.00	4749700.00	57.18309	(93092004)
370700.00	4750700.00	57.01084	(93071405)	370700.00	4751700.00	49.71084	(93042703)
370700.00	4752700.00	46.86721	(93031204)	370700.00	4754700.00	30.49707	(93081304)
371760.00	4750600.00	76.87258	(93030106)	372700.00	4746700.00	9.29331	(93112607)
372700.00	4747700.00	13.90782	(93112607)	372700.00	4748700.00	17.66035	(93112607)
372700.00	4749700.00	128.87020	(93042704)	372700.00	4751700.00	96.39841	(93110918)
372700.00	4752700.00	70.83667	(93082303)	372700.00	4753700.00	49.34471	(93111405)
372700.00	4754700.00	26.60670	(93112105)	373200.00	4749200.00	123.03260	(93073005)
373200.00	4750200.00	177.48930	(93011818)	373200.00	4751200.00	145.56790	(93012019)
373200.00	4752200.00	112.24360	(93012422)	373700.00	4748700.00	23.67041	(93112607)
373700.00	4749700.00	44.53745	(93112607)	373700.00	4751700.00	170.08090	(93080304)
374200.00	4749200.00	32.62613	(93112502)	374200.00	4752200.00	148.13120	(93091106)
374700.00	4748700.00	12.21479	(93112703)	374700.00	4749700.00	54.58934	(93112703)
374700.00	4751700.00	368.83790	(93040203)	374700.00	4752700.00	58.80851	(93051701)
374700.00	4753700.00	33.11576	(93060422)	374700.00	4754700.00	49.89349	(93060422)
375200.00	4749200.00	18.38483	(93112703)	375200.00	4752200.00	158.82070	(93110820)
375700.00	4749700.00	16.24633	(93122519)	375700.00	4751700.00	89.71016	(93110702)
376200.00	4749200.00	12.53836	(93112523)	376300.00	4752400.00	91.42437	(93112106)
376700.00	4749700.00	19.65665	(93112605)	376700.00	4750700.00	31.93025	(93112601)
376700.00	4751700.00	89.25624	(93110702)	376700.00	4752700.00	55.06157	(93030520)
376700.00	4753700.00	63.49026	(93102302)	376700.00	4754700.00	37.99920	(93122103)
376700.00	4758700.00	16.03354	(93122005)	377200.00	4752200.00	72.25857	(93092302)
378700.00	4747700.00	7.03650	(93112605)	378700.00	4748700.00	11.57514	(93112605)
378700.00	4749700.00	13.62140	(93090203)	378700.00	4750700.00	41.67665	(93030203)
378700.00	4751700.00	40.32409	(93073103)	378700.00	4752700.00	49.10747	(93050905)
378700.00	4753700.00	35.17954	(93122401)	378700.00	4754700.00	36.76549	(93121503)
379400.00	4753600.00	49.70274	(93092019)	380700.00	4746700.00	28.88365	(93082603)
380700.00	4748700.00	25.62145	(93042904)	380700.00	4750700.00	28.58126	(93122520)
380700.00	4752700.00	39.70444	(93030403)	380700.00	4754700.00	24.15404	(93122401)
380700.00	4756700.00	25.19550	(93093003)	380700.00	4758700.00	11.31507	(93072103)
380889.00	4747781.00	9.37917	(93112705)	382700.00	4748700.00	4.99811	(93073104)
382700.00	4750700.00	5.65893	(93112622)	382700.00	4752700.00	5.45729	(93121504)
382700.00	4754700.00	5.16860	(93030403)	382700.00	4756700.00	4.42301	(93121503)
382700.00	4758700.00	20.52052	(93093003)	382800.00	4746400.00	22.97345	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G13 ***
INCLUDING SOURCE(S): DISCNBH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.33699	(93110903)	360000.00	4750000.00	13.93264	(93092002)
364700.00	4750700.00	18.70926	(93102606)	364700.00	4754700.00	16.20603	(93031204)
366700.00	4756700.00	9.54888	(93020501)	370700.00	4758700.00	11.42729	(93100219)
368700.00	4752700.00	29.60618	(93111003)	372700.00	4756700.00	32.74026	(93041520)
368700.00	4744700.00	10.69499	(93120601)	368700.00	4748700.00	32.83170	(93110903)
376150.00	4752050.00	52.66265	(93072124)	376200.00	4752050.00	50.47346	(93062902)
376250.00	4752050.00	48.96573	(93062902)	376100.00	4752100.00	64.62123	(93100902)
376150.00	4752100.00	60.73753	(93102018)	376250.00	4752100.00	52.92682	(93102018)
376150.00	4752150.00	55.74169	(93100902)	376200.00	4752150.00	60.18957	(93100902)
376250.00	4752150.00	58.17126	(93102018)	374900.00	4751750.00	343.27480	(93032004)
374950.00	4751775.00	366.94810	(93050901)	375000.00	4751790.00	288.53820	(93102302)
375050.00	4751775.00	310.53030	(93042604)	375100.00	4751775.00	284.92290	(93030819)
375050.00	4751800.00	296.03990	(93042604)	375100.00	4751800.00	296.21740	(93093003)
374950.00	4751850.00	266.16080	(93110820)	375000.00	4751850.00	306.40190	(93050901)
375050.00	4751850.00	274.74600	(93102302)	375100.00	4751850.00	270.96340	(93042604)
376400.00	4750490.00	36.76989	(93112605)	376450.00	4750490.00	35.18083	(93112605)
376500.00	4750490.00	33.48979	(93112605)	376400.00	4750540.00	37.05568	(93112605)
376500.00	4750540.00	33.97716	(93112605)	376550.00	4750540.00	32.92030	(93112605)
376400.00	4750590.00	37.86827	(93112605)	376450.00	4750590.00	36.35811	(93112605)
376500.00	4750590.00	35.06969	(93112605)	376450.00	4750640.00	37.75378	(93112605)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G14 ***
INCLUDING SOURCE(S): ENODULEB,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	45.54407	(93062902)	375000.00	4751800.00	269.42450	(93121503)
377900.00	4754300.00	35.16706	(93093003)	377950.00	4751300.00	46.42678	(93090605)
371650.00	4748400.00	65.38446	(93122420)	357000.00	4743000.00	7.98603	(93012006)
376450.00	4750540.00	33.89605	(93112602)	364700.00	4746700.00	18.13090	(93012006)
364700.00	4758700.00	8.45049	(93122624)	366700.00	4742700.00	19.24627	(93070705)
366700.00	4758700.00	10.50804	(93082620)	370700.00	4747700.00	10.24691	(93011503)
370700.00	4748700.00	12.28333	(93011503)	370700.00	4749700.00	46.93672	(93012006)
370700.00	4750700.00	49.92665	(93081705)	370700.00	4751700.00	44.13573	(93112003)
370700.00	4752700.00	50.29278	(93050524)	370700.00	4754700.00	30.30576	(93093021)
371760.00	4750600.00	43.45941	(93042304)	372700.00	4746700.00	9.39536	(93112607)
372700.00	4747700.00	14.02038	(93112607)	372700.00	4748700.00	17.87705	(93112607)
372700.00	4749700.00	123.02100	(93011503)	372700.00	4751700.00	108.70330	(93073105)
372700.00	4752700.00	74.91339	(93020501)	372700.00	4753700.00	54.61593	(93111405)
372700.00	4754700.00	27.82414	(93020419)	373200.00	4749200.00	113.13540	(93092802)
373200.00	4750200.00	177.36000	(93011503)	373200.00	4751200.00	102.02330	(93090205)
373200.00	4752200.00	127.64180	(93051120)	373700.00	4748700.00	23.49900	(93112706)
373700.00	4749700.00	43.79052	(93112607)	373700.00	4751700.00	226.57870	(93092505)
374200.00	4749200.00	31.97824	(93112502)	374200.00	4752200.00	195.57880	(93122102)
374700.00	4748700.00	12.23055	(93112703)	374700.00	4749700.00	51.11476	(93011820)
374700.00	4751700.00	548.71170	(93030719)	374700.00	4752700.00	117.48920	(93011918)
374700.00	4753700.00	32.02967	(93051701)	374700.00	4754700.00	21.19964	(93060422)
375200.00	4749200.00	18.02232	(93112703)	375200.00	4752200.00	152.77880	(93102302)
375700.00	4749700.00	13.51378	(93012207)	375700.00	4751700.00	86.67313	(93110702)
376200.00	4749200.00	12.39482	(93112523)	376300.00	4752400.00	45.41743	(93122401)
376700.00	4749700.00	19.16258	(93112602)	376700.00	4750700.00	30.89367	(93112601)
376700.00	4751700.00	82.07162	(93082524)	376700.00	4752700.00	34.43595	(93112106)
376700.00	4753700.00	32.34267	(93042604)	376700.00	4754700.00	35.08626	(93122103)
376700.00	4758700.00	13.35150	(93102318)	377200.00	4752200.00	42.29594	(93092302)
378700.00	4747700.00	7.05203	(93112602)	378700.00	4748700.00	11.47106	(93112602)
378700.00	4749700.00	13.23571	(93072905)	378700.00	4750700.00	49.64668	(93012722)
378700.00	4751700.00	39.76535	(93121701)	378700.00	4752700.00	34.69741	(93092302)
378700.00	4753700.00	22.58492	(93122401)	378700.00	4754700.00	43.82003	(93121503)
379400.00	4753600.00	32.35247	(93092019)	380700.00	4746700.00	25.78111	(93082603)
380700.00	4748700.00	27.85175	(93042904)	380700.00	4750700.00	36.28371	(93122520)
380700.00	4752700.00	32.45499	(93030403)	380700.00	4754700.00	15.30724	(93081403)
380700.00	4756700.00	16.78600	(93093003)	380700.00	4758700.00	7.82670	(93102302)
380889.00	4747781.00	35.38821	(93072905)	382700.00	4748700.00	26.36503	(93100624)
382700.00	4750700.00	5.66655	(93020405)	382700.00	4752700.00	5.49533	(93110702)
382700.00	4754700.00	5.14320	(93081403)	382700.00	4756700.00	4.47447	(93121503)
382700.00	4758700.00	18.79418	(93093003)	382800.00	4746400.00	20.94723	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G14 ***
INCLUDING SOURCE(S): ENODULEB,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	11.16863	(93110903)	360000.00	4750000.00	11.83232	(93092002)
364700.00	4750700.00	17.54706	(93102606)	364700.00	4754700.00	17.14971	(93050524)
366700.00	4756700.00	9.58381	(93020501)	370700.00	4758700.00	12.84703	(93100219)
368700.00	4752700.00	29.94515	(93111105)	372700.00	4756700.00	33.48744	(93041520)
368700.00	4744700.00	10.53364	(93120601)	368700.00	4748700.00	30.27306	(93012006)
376150.00	4752050.00	48.66510	(93050905)	376200.00	4752050.00	54.41852	(93050905)
376250.00	4752050.00	57.36495	(93050905)	376100.00	4752100.00	57.48113	(93062902)
376150.00	4752100.00	52.95372	(93062902)	376250.00	4752100.00	40.86378	(93050905)
376150.00	4752150.00	66.62566	(93092019)	376200.00	4752150.00	55.11629	(93062902)
376250.00	4752150.00	52.36975	(93062902)	374900.00	4751750.00	333.72260	(93093003)
374950.00	4751775.00	250.12170	(93030819)	375000.00	4751790.00	261.08980	(93121503)
375050.00	4751775.00	318.54890	(93030520)	375100.00	4751775.00	89.93468	(93112106)
375050.00	4751800.00	274.48630	(93030520)	375100.00	4751800.00	252.41930	(93030520)
374950.00	4751850.00	241.90480	(93042604)	375000.00	4751850.00	294.64460	(93093003)
375050.00	4751850.00	220.98380	(93121503)	375100.00	4751850.00	204.44180	(93091923)
376400.00	4750490.00	35.21664	(93112602)	376450.00	4750490.00	33.77600	(93112602)
376500.00	4750490.00	32.21539	(93112602)	376400.00	4750540.00	35.47028	(93112602)
376500.00	4750540.00	32.68576	(93112602)	376550.00	4750540.00	31.71688	(93112602)
376400.00	4750590.00	36.21948	(93112602)	376450.00	4750590.00	34.89283	(93112602)
376500.00	4750590.00	33.72678	(93112602)	376450.00	4750640.00	36.19537	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G15 ***
INCLUDING SOURCE(S): WNODULEB,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	43.40866	(93062902)	375000.00	4751800.00	307.70220	(93121503)
377900.00	4754300.00	28.49813	(93093003)	377950.00	4751300.00	44.97189	(93090605)
371650.00	4748400.00	25.73597	(93122418)	357000.00	4743000.00	8.29890	(93012006)
376450.00	4750540.00	33.47346	(93112602)	364700.00	4746700.00	17.82501	(93012006)
364700.00	4758700.00	8.35372	(93122624)	366700.00	4742700.00	18.76562	(93070705)
366700.00	4758700.00	10.63583	(93082620)	370700.00	4747700.00	10.29966	(93021020)
370700.00	4748700.00	12.36119	(93011503)	370700.00	4749700.00	51.05863	(93012006)
370700.00	4750700.00	57.31876	(93081705)	370700.00	4751700.00	46.69542	(93112003)
370700.00	4752700.00	50.54468	(93050524)	370700.00	4754700.00	32.25713	(93093021)
371760.00	4750600.00	74.23255	(93012206)	372700.00	4746700.00	9.42796	(93112607)
372700.00	4747700.00	14.08721	(93112607)	372700.00	4748700.00	18.00146	(93112607)
372700.00	4749700.00	108.70700	(93011503)	372700.00	4751700.00	112.08610	(93073105)
372700.00	4752700.00	80.79626	(93082303)	372700.00	4753700.00	57.57907	(93111405)
372700.00	4754700.00	29.86205	(93020419)	373200.00	4749200.00	112.64900	(93092802)
373200.00	4750200.00	164.30870	(93011503)	373200.00	4751200.00	160.59700	(93081705)
373200.00	4752200.00	128.49360	(93092104)	373700.00	4748700.00	23.63053	(93112706)
373700.00	4749700.00	44.25990	(93020206)	373700.00	4751700.00	231.71300	(93012518)
374200.00	4749200.00	32.13868	(93112502)	374200.00	4752200.00	146.09000	(93080121)
374700.00	4748700.00	12.25161	(93112703)	374700.00	4749700.00	51.22273	(93011820)
374700.00	4751700.00	412.89310	(93122103)	374700.00	4752700.00	89.50671	(93011918)
374700.00	4753700.00	45.42840	(93090706)	374700.00	4754700.00	17.52046	(93051701)
375200.00	4749200.00	18.00036	(93112703)	375200.00	4752200.00	145.37140	(93102302)
375700.00	4749700.00	13.43127	(93012207)	375700.00	4751700.00	84.38729	(93110702)
376200.00	4749200.00	12.33162	(93112523)	376300.00	4752400.00	45.70601	(93081403)
376700.00	4749700.00	19.01465	(93112602)	376700.00	4750700.00	30.50761	(93112601)
376700.00	4751700.00	81.71249	(93082524)	376700.00	4752700.00	33.23759	(93112106)
376700.00	4753700.00	33.83757	(93042604)	376700.00	4754700.00	33.46306	(93122103)
376700.00	4758700.00	14.55655	(93102318)	377200.00	4752200.00	41.51965	(93092302)
378700.00	4747700.00	7.02730	(93112602)	378700.00	4748700.00	11.41752	(93112524)
378700.00	4749700.00	13.15635	(93072104)	378700.00	4750700.00	49.86670	(93012722)
378700.00	4751700.00	40.26586	(93121701)	378700.00	4752700.00	34.45018	(93092302)
378700.00	4753700.00	22.21113	(93122401)	378700.00	4754700.00	40.60083	(93121503)
379400.00	4753600.00	31.50115	(93092019)	380700.00	4746700.00	26.68701	(93082603)
380700.00	4748700.00	27.86460	(93042904)	380700.00	4750700.00	36.09899	(93122520)
380700.00	4752700.00	32.31861	(93030403)	380700.00	4754700.00	15.84280	(93081403)
380700.00	4756700.00	14.75102	(93093003)	380700.00	4758700.00	8.32815	(93102302)
380889.00	4747781.00	35.36992	(93072905)	382700.00	4748700.00	26.81017	(93100624)
382700.00	4750700.00	5.64531	(93020405)	382700.00	4752700.00	5.47402	(93110702)
382700.00	4754700.00	5.12473	(93081403)	382700.00	4756700.00	4.46069	(93121503)
382700.00	4758700.00	17.65592	(93093003)	382800.00	4746400.00	21.27739	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G15 ***
INCLUDING SOURCE(S): WNODULEB,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.19645	(93110903)	360000.00	4750000.00	12.27173	(93092002)
364700.00	4750700.00	17.95869	(93102606)	364700.00	4754700.00	17.06599	(93050524)
366700.00	4756700.00	9.67809	(93020501)	370700.00	4758700.00	12.81617	(93100219)
368700.00	4752700.00	29.98186	(93111105)	372700.00	4756700.00	31.77985	(93041520)
368700.00	4744700.00	5.01823	(93072904)	368700.00	4748700.00	32.31444	(93012006)
376150.00	4752050.00	49.77491	(93050905)	376200.00	4752050.00	54.94172	(93050905)
376250.00	4752050.00	57.27813	(93050905)	376100.00	4752100.00	56.47225	(93062902)
376150.00	4752100.00	51.17940	(93062902)	376250.00	4752100.00	42.15277	(93050905)
376150.00	4752150.00	61.54303	(93092019)	376200.00	4752150.00	54.53738	(93062902)
376250.00	4752150.00	51.01211	(93062902)	374900.00	4751750.00	293.80270	(93121503)
374950.00	4751775.00	363.12880	(93121503)	375000.00	4751790.00	246.00290	(93121503)
375050.00	4751775.00	245.72200	(93030520)	375100.00	4751775.00	86.63292	(93112106)
375050.00	4751800.00	315.75500	(93030520)	375100.00	4751800.00	180.90900	(93030520)
374950.00	4751850.00	343.40150	(93042604)	375000.00	4751850.00	267.60410	(93093003)
375050.00	4751850.00	300.16850	(93121503)	375100.00	4751850.00	222.36510	(93030520)
376400.00	4750490.00	34.78407	(93112602)	376450.00	4750490.00	33.36555	(93112602)
376500.00	4750490.00	31.82819	(93112602)	376400.00	4750540.00	35.02285	(93112602)
376500.00	4750540.00	32.28312	(93112602)	376550.00	4750540.00	31.33088	(93112602)
376400.00	4750590.00	35.75063	(93112602)	376450.00	4750590.00	34.44688	(93112602)
376500.00	4750590.00	33.30125	(93112602)	376450.00	4750640.00	35.72149	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G16 ***
INCLUDING SOURCE(S): STOCKPIL,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	98.95886	(93062902)	375000.00	4751800.00	410.15200	(93042604)
377900.00	4754300.00	55.94556	(93093003)	377950.00	4751300.00	39.40422	(93032501)
371650.00	4748400.00	28.40682	(93122418)	357000.00	4743000.00	9.02202	(93020520)
376450.00	4750540.00	34.27350	(93112605)	364700.00	4746700.00	20.06157	(93020520)
364700.00	4758700.00	11.86133	(93122624)	366700.00	4742700.00	19.46455	(93070705)
366700.00	4758700.00	13.38151	(93082620)	370700.00	4747700.00	10.18685	(93112422)
370700.00	4748700.00	12.17380	(93020202)	370700.00	4749700.00	59.33935	(93110903)
370700.00	4750700.00	64.15723	(93081705)	370700.00	4751700.00	60.75354	(93112003)
370700.00	4752700.00	59.71307	(93050524)	370700.00	4754700.00	39.00986	(93081304)
371760.00	4750600.00	88.42747	(93042304)	372700.00	4746700.00	9.13120	(93112607)
372700.00	4747700.00	13.64902	(93112607)	372700.00	4748700.00	17.30228	(93112607)
372700.00	4749700.00	112.96320	(93011503)	372700.00	4751700.00	142.61290	(93090806)
372700.00	4752700.00	104.45150	(93020501)	372700.00	4753700.00	44.95916	(93041804)
372700.00	4754700.00	31.28720	(93112105)	373200.00	4749200.00	118.09290	(93120520)
373200.00	4750200.00	186.26450	(93042704)	373200.00	4751200.00	182.31810	(93071405)
373200.00	4752200.00	169.23790	(93051120)	373700.00	4748700.00	22.99487	(93112607)
373700.00	4749700.00	42.92475	(93112607)	373700.00	4751700.00	293.27200	(93012518)
374200.00	4749200.00	31.39563	(93112502)	374200.00	4752200.00	216.33680	(93100219)
374700.00	4748700.00	11.74098	(93112703)	374700.00	4749700.00	51.80391	(93112703)
374700.00	4751700.00	816.39720	(93102318)	374700.00	4752700.00	88.79339	(93011918)
374700.00	4753700.00	28.52457	(93060422)	374700.00	4754700.00	48.83145	(93060422)
375200.00	4749200.00	17.59273	(93112703)	375200.00	4752200.00	191.85550	(93032004)
375700.00	4749700.00	16.92552	(93122519)	375700.00	4751700.00	89.81714	(93020506)
376200.00	4749200.00	12.07143	(93112523)	376300.00	4752400.00	70.83736	(93122401)
376700.00	4749700.00	19.07663	(93112605)	376700.00	4750700.00	31.16315	(93112601)
376700.00	4751700.00	74.12486	(93082524)	376700.00	4752700.00	57.01088	(93112106)
376700.00	4753700.00	53.33023	(93041903)	376700.00	4754700.00	46.41578	(93122103)
376700.00	4758700.00	16.06847	(93122005)	377200.00	4752200.00	86.37253	(93092302)
378700.00	4747700.00	6.91312	(93112605)	378700.00	4748700.00	11.39153	(93112605)
378700.00	4749700.00	13.47828	(93010402)	378700.00	4750700.00	60.17579	(93012722)
378700.00	4751700.00	37.87544	(93121701)	378700.00	4752700.00	55.04360	(93092302)
378700.00	4753700.00	34.63786	(93122401)	378700.00	4754700.00	46.12997	(93121503)
379400.00	4753600.00	47.71709	(93092019)	380700.00	4746700.00	29.35569	(93090519)
380700.00	4748700.00	34.54739	(93042904)	380700.00	4750700.00	40.34553	(93122520)
380700.00	4752700.00	31.15031	(93030403)	380700.00	4754700.00	20.71490	(93122401)
380700.00	4756700.00	23.13333	(93093003)	380700.00	4758700.00	11.27873	(93072103)
380889.00	4747781.00	6.97322	(93112603)	382700.00	4748700.00	25.42458	(93112601)
382700.00	4750700.00	5.61499	(93112622)	382700.00	4752700.00	5.43976	(93020506)
382700.00	4754700.00	5.17636	(93031806)	382700.00	4756700.00	4.42030	(93122401)
382700.00	4758700.00	21.35369	(93093003)	382800.00	4746400.00	22.66372	(93012503)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G16 ***
INCLUDING SOURCE(S): STOCKPIL,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.98821	(93110903)	360000.00	4750000.00	13.74526	(93092002)
364700.00	4750700.00	21.01142	(93102606)	364700.00	4754700.00	19.36069	(93050524)
366700.00	4756700.00	13.72219	(93020501)	370700.00	4758700.00	13.57568	(93100219)
368700.00	4752700.00	36.42491	(93111105)	372700.00	4756700.00	40.72197	(93041520)
368700.00	4744700.00	4.99032	(93011503)	368700.00	4748700.00	35.71681	(93020520)
376150.00	4752050.00	87.33092	(93062902)	376200.00	4752050.00	66.19827	(93062902)
376250.00	4752050.00	67.01013	(93050905)	376100.00	4752100.00	102.19350	(93092019)
376150.00	4752100.00	97.69984	(93062902)	376250.00	4752100.00	88.87396	(93062902)
376150.00	4752150.00	107.61650	(93092019)	376200.00	4752150.00	99.39816	(93092019)
376250.00	4752150.00	90.62675	(93072124)	374900.00	4751750.00	451.82870	(93102302)
374950.00	4751775.00	350.00540	(93042604)	375000.00	4751790.00	385.86420	(93093003)
375050.00	4751775.00	341.14080	(93110505)	375100.00	4751775.00	396.03150	(93030520)
375050.00	4751800.00	357.15170	(93030819)	375100.00	4751800.00	295.34000	(93091923)
374950.00	4751850.00	427.64940	(93050901)	375000.00	4751850.00	294.74320	(93041903)
375050.00	4751850.00	377.80180	(93042604)	375100.00	4751850.00	302.34110	(93030819)
376400.00	4750490.00	35.64314	(93112605)	376450.00	4750490.00	34.14869	(93112605)
376500.00	4750490.00	32.53108	(93112605)	376400.00	4750540.00	35.91050	(93112605)
376500.00	4750540.00	33.01922	(93112605)	376550.00	4750540.00	32.01693	(93112605)
376400.00	4750590.00	36.71846	(93112605)	376450.00	4750590.00	35.31018	(93112605)
376500.00	4750590.00	34.10055	(93112605)	376450.00	4750640.00	36.66526	(93112605)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G17 ***
INCLUDING SOURCE(S): DUSTSILO,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	23.76582	(93062902)	375000.00	4751800.00	208.31920	(93030520)
377900.00	4754300.00	24.80545	(93121503)	377950.00	4751300.00	27.29427	(93102024)
371650.00	4748400.00	53.16665	(93070705)	357000.00	4743000.00	7.24801	(93012006)
376450.00	4750540.00	30.92273	(93112602)	364700.00	4746700.00	15.31239	(93012006)
364700.00	4758700.00	5.77147	(93112621)	366700.00	4742700.00	16.77824	(93070705)
366700.00	4758700.00	9.67527	(93082620)	370700.00	4747700.00	9.95072	(93072904)
370700.00	4748700.00	11.99794	(93072904)	370700.00	4749700.00	44.37062	(93012006)
370700.00	4750700.00	47.47259	(93081705)	370700.00	4751700.00	40.44269	(93042703)
370700.00	4752700.00	36.12444	(93082804)	370700.00	4754700.00	30.46114	(93093021)
371760.00	4750600.00	61.27488	(93110806)	372700.00	4746700.00	9.26403	(93112607)
372700.00	4747700.00	13.87909	(93112607)	372700.00	4748700.00	17.92448	(93112607)
372700.00	4749700.00	74.71711	(93092224)	372700.00	4751700.00	93.67330	(93013023)
372700.00	4752700.00	58.34952	(93082303)	372700.00	4753700.00	47.43325	(93061821)
372700.00	4754700.00	30.82585	(93100219)	373200.00	4749200.00	86.49328	(93093023)
373200.00	4750200.00	98.78153	(93092224)	373200.00	4751200.00	133.75280	(93091006)
373200.00	4752200.00	102.07100	(93122604)	373700.00	4748700.00	23.37478	(93112706)
373700.00	4749700.00	43.76929	(93011904)	373700.00	4751700.00	156.36300	(93081424)
374200.00	4749200.00	31.74587	(93112502)	374200.00	4752200.00	201.59770	(93090705)
374700.00	4748700.00	12.19604	(93112703)	374700.00	4749700.00	48.95216	(93011903)
374700.00	4751700.00	177.67280	(93102302)	374700.00	4752700.00	57.18296	(93072703)
374700.00	4753700.00	65.54297	(93090706)	374700.00	4754700.00	40.14062	(93090706)
375200.00	4749200.00	17.61155	(93112703)	375200.00	4752200.00	90.27049	(93042604)
375700.00	4749700.00	14.60837	(93103101)	375700.00	4751700.00	73.69518	(93110702)
376200.00	4749200.00	11.81073	(93020406)	376300.00	4752400.00	52.70353	(93081403)
376700.00	4749700.00	17.96416	(93112602)	376700.00	4750700.00	28.16232	(93112601)
376700.00	4751700.00	53.01377	(93082524)	376700.00	4752700.00	23.48588	(93122401)
376700.00	4753700.00	43.53013	(93042604)	376700.00	4754700.00	13.87208	(93122103)
376700.00	4758700.00	12.22365	(93102318)	377200.00	4752200.00	30.73999	(93092302)
378700.00	4747700.00	6.74451	(93112602)	378700.00	4748700.00	10.61677	(93012103)
378700.00	4749700.00	12.08455	(93073104)	378700.00	4750700.00	40.66787	(93012722)
378700.00	4751700.00	24.71612	(93121701)	378700.00	4752700.00	27.48367	(93092302)
378700.00	4753700.00	17.38288	(93081403)	378700.00	4754700.00	35.08746	(93121503)
379400.00	4753600.00	21.65067	(93072124)	380700.00	4746700.00	21.78229	(93082603)
380700.00	4748700.00	25.99389	(93010405)	380700.00	4750700.00	29.36850	(93122520)
380700.00	4752700.00	28.69946	(93021424)	380700.00	4754700.00	15.72543	(93081403)
380700.00	4756700.00	9.06999	(93030819)	380700.00	4758700.00	5.90705	(93102302)
380889.00	4747781.00	28.72938	(93072905)	382700.00	4748700.00	23.11016	(93112601)
382700.00	4750700.00	5.26490	(93020405)	382700.00	4752700.00	5.20581	(93110702)
382700.00	4754700.00	4.78056	(93081403)	382700.00	4756700.00	4.16886	(93121503)
382700.00	4758700.00	12.50358	(93093003)	382800.00	4746400.00	18.17665	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G17 ***
INCLUDING SOURCE(S): DUSTSILO,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	9.35124	(93092004)	360000.00	4750000.00	9.00892	(93092002)
364700.00	4750700.00	12.64192	(93102606)	364700.00	4754700.00	12.25749	(93082804)
366700.00	4756700.00	8.28703	(93082303)	370700.00	4758700.00	11.65483	(93092319)
368700.00	4752700.00	25.96353	(93012801)	372700.00	4756700.00	31.87911	(93090705)
368700.00	4744700.00	20.56351	(93112422)	368700.00	4748700.00	26.92889	(93012006)
376150.00	4752050.00	37.32041	(93050905)	376200.00	4752050.00	41.93826	(93050905)
376250.00	4752050.00	43.37741	(93050905)	376100.00	4752100.00	39.65088	(93062902)
376150.00	4752100.00	32.08456	(93062902)	376250.00	4752100.00	30.48996	(93050905)
376150.00	4752150.00	42.05346	(93062902)	376200.00	4752150.00	39.51154	(93062902)
376250.00	4752150.00	33.74723	(93062902)	374900.00	4751750.00	174.89640	(93030520)
374950.00	4751775.00	206.71430	(93030520)	375000.00	4751790.00	203.20660	(93030520)
375050.00	4751775.00	58.76235	(93112106)	375100.00	4751775.00	119.43520	(93081403)
375050.00	4751800.00	114.04010	(93030520)	375100.00	4751800.00	56.04208	(93122401)
374950.00	4751850.00	134.28250	(93093003)	375000.00	4751850.00	220.45330	(93121503)
375050.00	4751850.00	158.75620	(93030520)	375100.00	4751850.00	162.94680	(93030520)
376400.00	4750490.00	32.14074	(93112602)	376450.00	4750490.00	30.85256	(93112602)
376500.00	4750490.00	29.45679	(93112602)	376400.00	4750540.00	32.32616	(93112602)
376500.00	4750540.00	29.84317	(93112602)	376550.00	4750540.00	28.97863	(93112602)
376400.00	4750590.00	32.95159	(93112602)	376450.00	4750590.00	31.77302	(93112602)
376500.00	4750590.00	30.73672	(93112602)	376450.00	4750640.00	32.86101	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G18 ***
INCLUDING SOURCE(S): EBURDEN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	6.79720	(93042502)	375000.00	4751800.00	32.92624	(93072820)
377900.00	4754300.00	11.13352	(93030819)	377950.00	4751300.00	10.23241	(93061301)
371650.00	4748400.00	28.85533	(93070705)	357000.00	4743000.00	3.37238	(93012006)
376450.00	4750540.00	25.04039	(93112602)	364700.00	4746700.00	7.56928	(93012006)
364700.00	4758700.00	2.19221	(93091801)	366700.00	4742700.00	8.31120	(93070705)
366700.00	4758700.00	3.62497	(93101124)	370700.00	4747700.00	25.65112	(93092224)
370700.00	4748700.00	36.99063	(93021020)	370700.00	4749700.00	11.20129	(93100606)
370700.00	4750700.00	10.28734	(93072402)	370700.00	4751700.00	8.87620	(93121705)
370700.00	4752700.00	9.07366	(93080304)	370700.00	4754700.00	8.06013	(93101124)
371760.00	4750600.00	12.55868	(93091906)	372700.00	4746700.00	7.79060	(93112607)
372700.00	4747700.00	13.21770	(93120518)	372700.00	4748700.00	15.20358	(93112607)
372700.00	4749700.00	37.35867	(93102403)	372700.00	4751700.00	17.79973	(93042004)
372700.00	4752700.00	13.76536	(93091524)	372700.00	4753700.00	9.26510	(93091702)
372700.00	4754700.00	4.54613	(93062821)	373200.00	4749200.00	23.99426	(93042803)
373200.00	4750200.00	41.48497	(93092424)	373200.00	4751200.00	18.41529	(93090703)
373200.00	4752200.00	20.76571	(93100703)	373700.00	4748700.00	18.99890	(93091606)
373700.00	4749700.00	78.66946	(93120521)	373700.00	4751700.00	33.75203	(93101602)
374200.00	4749200.00	26.70903	(93112502)	374200.00	4752200.00	25.68324	(93101219)
374700.00	4748700.00	10.91611	(93112703)	374700.00	4749700.00	89.25552	(93090105)
374700.00	4751700.00	32.75015	(93041903)	374700.00	4752700.00	13.61186	(93040203)
374700.00	4753700.00	10.98451	(93080920)	374700.00	4754700.00	12.76628	(93051701)
375200.00	4749200.00	15.39616	(93112703)	375200.00	4752200.00	16.72575	(93081505)
375700.00	4749700.00	10.84092	(93020406)	375700.00	4751700.00	48.99134	(93021424)
376200.00	4749200.00	10.29928	(93020406)	376300.00	4752400.00	15.35841	(93031023)
376700.00	4749700.00	14.92127	(93112602)	376700.00	4750700.00	22.71877	(93112601)
376700.00	4751700.00	9.52504	(93021701)	376700.00	4752700.00	9.69442	(93091305)
376700.00	4753700.00	8.67088	(93042604)	376700.00	4754700.00	9.39837	(93110820)
376700.00	4758700.00	6.52440	(93102318)	377200.00	4752200.00	10.85053	(93111918)
378700.00	4747700.00	5.63379	(93112602)	378700.00	4748700.00	28.37320	(93012503)
378700.00	4749700.00	27.72131	(93022604)	378700.00	4750700.00	8.72121	(93030203)
378700.00	4751700.00	8.83481	(93111118)	378700.00	4752700.00	12.43652	(93092302)
378700.00	4753700.00	8.87843	(93031023)	378700.00	4754700.00	9.28970	(93121503)
379400.00	4753600.00	11.44812	(93072124)	380700.00	4746700.00	7.66290	(93082603)
380700.00	4748700.00	8.80818	(93020218)	380700.00	4750700.00	9.53979	(93102405)
380700.00	4752700.00	9.75764	(93030403)	380700.00	4754700.00	6.35834	(93031023)
380700.00	4756700.00	6.16590	(93030819)	380700.00	4758700.00	2.29370	(93102302)
380889.00	4747781.00	16.52736	(93072104)	382700.00	4748700.00	11.11474	(93100624)
382700.00	4750700.00	18.85638	(93102304)	382700.00	4752700.00	18.77514	(93110702)
382700.00	4754700.00	8.76746	(93062902)	382700.00	4756700.00	9.33148	(93030520)
382700.00	4758700.00	6.36148	(93093003)	382800.00	4746400.00	6.74024	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G18 ***
INCLUDING SOURCE(S): EBURDEN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	4.88294	(93110903)	360000.00	4750000.00	5.16892	(93092002)
364700.00	4750700.00	5.37484	(93102606)	364700.00	4754700.00	4.75429	(93031204)
366700.00	4756700.00	2.34543	(93020502)	370700.00	4758700.00	2.53959	(93111403)
368700.00	4752700.00	6.72163	(93110423)	372700.00	4756700.00	7.29932	(93103019)
368700.00	4744700.00	14.82800	(93120519)	368700.00	4748700.00	7.80130	(93020520)
376150.00	4752050.00	6.72962	(93030102)	376200.00	4752050.00	6.71897	(93030102)
376250.00	4752050.00	6.57640	(93030102)	376100.00	4752100.00	7.56119	(93042502)
376150.00	4752100.00	7.25058	(93042502)	376250.00	4752100.00	6.26436	(93030102)
376150.00	4752150.00	7.28952	(93042502)	376200.00	4752150.00	7.23721	(93042502)
376250.00	4752150.00	7.01437	(93042502)	374900.00	4751750.00	30.69529	(93042423)
374950.00	4751775.00	32.23130	(93042423)	375000.00	4751790.00	34.10221	(93072820)
375050.00	4751775.00	29.54637	(93063023)	375100.00	4751775.00	32.14293	(93060421)
375050.00	4751800.00	23.62604	(93072820)	375100.00	4751800.00	27.59127	(93063023)
374950.00	4751850.00	34.79441	(93100523)	375000.00	4751850.00	29.50043	(93111518)
375050.00	4751850.00	27.68044	(93042423)	375100.00	4751850.00	29.45150	(93072820)
376400.00	4750490.00	26.00686	(93112602)	376450.00	4750490.00	24.98577	(93112602)
376500.00	4750490.00	23.88688	(93112602)	376400.00	4750540.00	26.14761	(93112602)
376500.00	4750540.00	24.17839	(93112602)	376550.00	4750540.00	23.44948	(93112601)
376400.00	4750590.00	26.58225	(93112601)	376450.00	4750590.00	25.64451	(93112601)
376500.00	4750590.00	24.81597	(93112601)	376450.00	4750640.00	26.47975	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G19 ***
INCLUDING SOURCE(S): WBURDEN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	6.72145	(93042502)	375000.00	4751800.00	33.38583	(93072820)
377900.00	4754300.00	11.01041	(93030819)	377950.00	4751300.00	10.29479	(93061301)
371650.00	4748400.00	29.62238	(93070705)	357000.00	4743000.00	3.36546	(93012006)
376450.00	4750540.00	24.82727	(93112602)	364700.00	4746700.00	7.54370	(93012006)
364700.00	4758700.00	2.18900	(93091801)	366700.00	4742700.00	8.24611	(93070705)
366700.00	4758700.00	3.55006	(93101124)	370700.00	4747700.00	26.60359	(93092224)
370700.00	4748700.00	37.10374	(93021020)	370700.00	4749700.00	11.16471	(93100606)
370700.00	4750700.00	10.30546	(93090703)	370700.00	4751700.00	8.91476	(93121705)
370700.00	4752700.00	9.25412	(93080304)	370700.00	4754700.00	7.94879	(93101124)
371760.00	4750600.00	12.60956	(93091906)	372700.00	4746700.00	7.81346	(93112607)
372700.00	4747700.00	12.42477	(93120518)	372700.00	4748700.00	15.29084	(93112607)
372700.00	4749700.00	37.77592	(93102403)	372700.00	4751700.00	18.22903	(93050823)
372700.00	4752700.00	13.88970	(93091524)	372700.00	4753700.00	8.49342	(93040201)
372700.00	4754700.00	4.60428	(93091106)	373200.00	4749200.00	23.65257	(93100822)
373200.00	4750200.00	42.25737	(93092424)	373200.00	4751200.00	18.96268	(93082401)
373200.00	4752200.00	20.09684	(93092502)	373700.00	4748700.00	19.08843	(93120917)
373700.00	4749700.00	77.68995	(93042805)	373700.00	4751700.00	35.50885	(93050705)
374200.00	4749200.00	26.82134	(93112502)	374200.00	4752200.00	25.78051	(93101219)
374700.00	4748700.00	10.93435	(93112703)	374700.00	4749700.00	95.42143	(93122618)
374700.00	4751700.00	33.06797	(93081505)	374700.00	4752700.00	12.89845	(93040203)
374700.00	4753700.00	10.16009	(93080920)	374700.00	4754700.00	12.41669	(93011918)
375200.00	4749200.00	15.38665	(93112703)	375200.00	4752200.00	17.55844	(93081505)
375700.00	4749700.00	10.79662	(93020406)	375700.00	4751700.00	48.21030	(93021424)
376200.00	4749200.00	10.26439	(93020406)	376300.00	4752400.00	15.28299	(93031023)
376700.00	4749700.00	14.84310	(93112602)	376700.00	4750700.00	22.52514	(93112601)
376700.00	4751700.00	9.52683	(93021701)	376700.00	4752700.00	9.82901	(93091305)
376700.00	4753700.00	9.11897	(93042604)	376700.00	4754700.00	9.43853	(93110820)
376700.00	4758700.00	6.64578	(93102318)	377200.00	4752200.00	10.83203	(93111918)
378700.00	4747700.00	5.62081	(93112602)	378700.00	4748700.00	28.14495	(93012503)
378700.00	4749700.00	28.05195	(93022604)	378700.00	4750700.00	8.72135	(93030203)
378700.00	4751700.00	8.78044	(93111118)	378700.00	4752700.00	12.40678	(93092302)
378700.00	4753700.00	8.88388	(93031023)	378700.00	4754700.00	9.19615	(93121503)
379400.00	4753600.00	11.40796	(93072124)	380700.00	4746700.00	7.53131	(93082603)
380700.00	4748700.00	8.80829	(93020218)	380700.00	4750700.00	9.55947	(93102405)
380700.00	4752700.00	9.75623	(93030403)	380700.00	4754700.00	6.32748	(93031023)
380700.00	4756700.00	6.16805	(93030819)	380700.00	4758700.00	2.30417	(93102302)
380889.00	4747781.00	16.49892	(93072104)	382700.00	4748700.00	11.06730	(93100624)
382700.00	4750700.00	18.71692	(93102304)	382700.00	4752700.00	18.73155	(93110702)
382700.00	4754700.00	8.70654	(93062902)	382700.00	4756700.00	9.16990	(93030520)
382700.00	4758700.00	6.29139	(93093003)	382800.00	4746400.00	6.66221	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G19 ***
INCLUDING SOURCE(S): WBURDEN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	4.88900	(93110903)	360000.00	4750000.00	5.18997	(93092002)
364700.00	4750700.00	5.38127	(93102606)	364700.00	4754700.00	4.76906	(93031204)
366700.00	4756700.00	2.35805	(93020502)	370700.00	4758700.00	2.47507	(93111403)
368700.00	4752700.00	6.88834	(93110423)	372700.00	4756700.00	7.52200	(93111019)
368700.00	4744700.00	14.64212	(93120519)	368700.00	4748700.00	7.79243	(93020520)
376150.00	4752050.00	6.69086	(93030102)	376200.00	4752050.00	6.67162	(93030102)
376250.00	4752050.00	6.55394	(93090905)	376100.00	4752100.00	7.50072	(93042502)
376150.00	4752100.00	7.17925	(93042502)	376250.00	4752100.00	6.23456	(93030102)
376150.00	4752150.00	7.25524	(93042502)	376200.00	4752150.00	7.18594	(93042502)
376250.00	4752150.00	6.95190	(93042502)	374900.00	4751750.00	32.79860	(93042423)
374950.00	4751775.00	33.21903	(93072820)	375000.00	4751790.00	32.47242	(93072820)
375050.00	4751775.00	28.42380	(93063023)	375100.00	4751775.00	31.37447	(93060421)
375050.00	4751800.00	25.00155	(93063023)	375100.00	4751800.00	26.08031	(93063023)
374950.00	4751850.00	33.22384	(93100523)	375000.00	4751850.00	27.14182	(93111518)
375050.00	4751850.00	27.98990	(93042423)	375100.00	4751850.00	27.37719	(93072820)
376400.00	4750490.00	25.78857	(93112602)	376450.00	4750490.00	24.77839	(93112602)
376500.00	4750490.00	23.69085	(93112602)	376400.00	4750540.00	25.92235	(93112602)
376500.00	4750540.00	23.94400	(93112601)	376550.00	4750540.00	23.25473	(93112601)
376400.00	4750590.00	26.34740	(93112601)	376450.00	4750590.00	25.42087	(93112601)
376500.00	4750590.00	24.60236	(93112601)	376450.00	4750640.00	26.24333	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G20 ***
INCLUDING SOURCE(S): COKEBAGH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	42.30851	(93062902)	375000.00	4751800.00	313.48770	(93121503)
377900.00	4754300.00	28.71922	(93093003)	377950.00	4751300.00	46.92733	(93090605)
371650.00	4748400.00	65.02617	(93120522)	357000.00	4743000.00	8.27360	(93012006)
376450.00	4750540.00	33.59349	(93112602)	364700.00	4746700.00	17.73177	(93012006)
364700.00	4758700.00	8.42298	(93122624)	366700.00	4742700.00	19.20948	(93070705)
366700.00	4758700.00	10.56730	(93082620)	370700.00	4747700.00	10.26831	(93011818)
370700.00	4748700.00	12.31827	(93012006)	370700.00	4749700.00	51.20785	(93012006)
370700.00	4750700.00	57.05302	(93081705)	370700.00	4751700.00	44.15809	(93112003)
370700.00	4752700.00	50.48643	(93050524)	370700.00	4754700.00	31.11273	(93093021)
371760.00	4750600.00	73.90449	(93012206)	372700.00	4746700.00	9.40202	(93112607)
372700.00	4747700.00	14.03791	(93112607)	372700.00	4748700.00	17.91808	(93112607)
372700.00	4749700.00	108.71340	(93011503)	372700.00	4751700.00	109.10230	(93073105)
372700.00	4752700.00	75.44142	(93020501)	372700.00	4753700.00	56.31782	(93111405)
372700.00	4754700.00	28.93728	(93020419)	373200.00	4749200.00	112.90510	(93092802)
373200.00	4750200.00	163.24910	(93011503)	373200.00	4751200.00	163.10410	(93081705)
373200.00	4752200.00	129.15200	(93051120)	373700.00	4748700.00	23.51782	(93112706)
373700.00	4749700.00	43.91163	(93020206)	373700.00	4751700.00	228.86330	(93092505)
374200.00	4749200.00	31.97009	(93112502)	374200.00	4752200.00	169.40370	(93122102)
374700.00	4748700.00	12.20969	(93112703)	374700.00	4749700.00	50.96007	(93122022)
374700.00	4751700.00	406.48960	(93122103)	374700.00	4752700.00	102.73070	(93011918)
374700.00	4753700.00	39.95227	(93090706)	374700.00	4754700.00	17.27467	(93060422)
375200.00	4749200.00	17.95451	(93112703)	375200.00	4752200.00	152.89180	(93102302)
375700.00	4749700.00	13.42403	(93012207)	375700.00	4751700.00	85.41258	(93110702)
376200.00	4749200.00	12.33044	(93112523)	376300.00	4752400.00	47.69687	(93081403)
376700.00	4749700.00	19.04196	(93112602)	376700.00	4750700.00	30.63073	(93112601)
376700.00	4751700.00	80.39006	(93082524)	376700.00	4752700.00	33.15475	(93112106)
376700.00	4753700.00	33.21040	(93042604)	376700.00	4754700.00	33.95716	(93122103)
376700.00	4758700.00	14.17017	(93102318)	377200.00	4752200.00	40.59149	(93092302)
378700.00	4747700.00	7.03113	(93112602)	378700.00	4748700.00	11.42993	(93112524)
378700.00	4749700.00	13.18020	(93072104)	378700.00	4750700.00	49.47998	(93012722)
378700.00	4751700.00	39.88629	(93121701)	378700.00	4752700.00	34.37925	(93092302)
378700.00	4753700.00	22.18262	(93122401)	378700.00	4754700.00	40.69661	(93121503)
379400.00	4753600.00	31.19751	(93092019)	380700.00	4746700.00	26.06572	(93082603)
380700.00	4748700.00	27.82618	(93042904)	380700.00	4750700.00	36.19669	(93122520)
380700.00	4752700.00	32.60352	(93021424)	380700.00	4754700.00	16.04841	(93081403)
380700.00	4756700.00	14.81756	(93093003)	380700.00	4758700.00	7.98096	(93102302)
380889.00	4747781.00	35.35694	(93072905)	382700.00	4748700.00	26.40379	(93100624)
382700.00	4750700.00	5.65347	(93020405)	382700.00	4752700.00	5.48339	(93110702)
382700.00	4754700.00	5.13378	(93081403)	382700.00	4756700.00	4.46808	(93121503)
382700.00	4758700.00	17.69097	(93093003)	382800.00	4746400.00	21.03850	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G20 ***
INCLUDING SOURCE(S): COKEBAGH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.19048	(93110903)	360000.00	4750000.00	12.17027	(93092002)
364700.00	4750700.00	17.51672	(93102606)	364700.00	4754700.00	17.15603	(93050524)
366700.00	4756700.00	9.62319	(93020501)	370700.00	4758700.00	12.85223	(93100219)
368700.00	4752700.00	30.00865	(93111105)	372700.00	4756700.00	32.70765	(93041520)
368700.00	4744700.00	10.53135	(93120601)	368700.00	4748700.00	32.19422	(93012006)
376150.00	4752050.00	51.46577	(93050905)	376200.00	4752050.00	56.15291	(93050905)
376250.00	4752050.00	57.88689	(93050905)	376100.00	4752100.00	56.31923	(93062902)
376150.00	4752100.00	50.45255	(93062902)	376250.00	4752100.00	43.85245	(93050905)
376150.00	4752150.00	59.45539	(93092019)	376200.00	4752150.00	54.62074	(93062902)
376250.00	4752150.00	50.55517	(93062902)	374900.00	4751750.00	294.14290	(93121503)
374950.00	4751775.00	370.19710	(93121503)	375000.00	4751790.00	249.15890	(93121503)
375050.00	4751775.00	241.52110	(93030520)	375100.00	4751775.00	86.72395	(93112106)
375050.00	4751800.00	322.98920	(93030520)	375100.00	4751800.00	175.46960	(93030520)
374950.00	4751850.00	347.46960	(93042604)	375000.00	4751850.00	277.50330	(93093003)
375050.00	4751850.00	305.25110	(93121503)	375100.00	4751850.00	228.66450	(93030520)
376400.00	4750490.00	34.90213	(93112602)	376450.00	4750490.00	33.47915	(93112602)
376500.00	4750490.00	31.93675	(93112602)	376400.00	4750540.00	35.14833	(93112602)
376500.00	4750540.00	32.39884	(93112602)	376550.00	4750540.00	31.44306	(93112602)
376400.00	4750590.00	35.88559	(93112602)	376450.00	4750590.00	34.57674	(93112602)
376500.00	4750590.00	33.42651	(93112602)	376450.00	4750640.00	35.86284	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G21 ***
INCLUDING SOURCE(S): PHOSDOCK,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	8.92806	(93090419)	375000.00	4751800.00	27.54569	(93061604)
377900.00	4754300.00	34.52595	(93121503)	377950.00	4751300.00	13.51129	(93090605)
371650.00	4748400.00	23.76817	(93120601)	357000.00	4743000.00	7.25098	(93012006)
376450.00	4750540.00	31.37597	(93112602)	364700.00	4746700.00	16.93187	(93111107)
364700.00	4758700.00	7.15223	(93122624)	366700.00	4742700.00	16.24639	(93120519)
366700.00	4758700.00	12.05510	(93082620)	370700.00	4747700.00	10.52943	(93072705)
370700.00	4748700.00	12.73550	(93072904)	370700.00	4749700.00	47.10551	(93012006)
370700.00	4750700.00	15.40379	(93081705)	370700.00	4751700.00	12.77293	(93081302)
370700.00	4752700.00	46.00145	(93050524)	370700.00	4754700.00	35.46552	(93093021)
371760.00	4750600.00	20.15250	(93080320)	372700.00	4746700.00	9.71560	(93112607)
372700.00	4747700.00	14.56224	(93112607)	372700.00	4748700.00	18.84023	(93112607)
372700.00	4749700.00	98.75204	(93092224)	372700.00	4751700.00	65.33466	(93081422)
372700.00	4752700.00	78.95157	(93082303)	372700.00	4753700.00	65.98064	(93061821)
372700.00	4754700.00	40.13743	(93100219)	373200.00	4749200.00	89.50939	(93070704)
373200.00	4750200.00	132.06520	(93092224)	373200.00	4751200.00	21.59332	(93103018)
373200.00	4752200.00	126.21440	(93082601)	373700.00	4748700.00	24.32445	(93112706)
373700.00	4749700.00	45.52870	(93070704)	373700.00	4751700.00	250.13690	(93050524)
374200.00	4749200.00	32.74160	(93112502)	374200.00	4752200.00	233.80120	(93102518)
374700.00	4748700.00	12.55191	(93112703)	374700.00	4749700.00	49.66887	(93011824)
374700.00	4751700.00	142.83090	(93121503)	374700.00	4752700.00	39.59588	(93082803)
374700.00	4753700.00	61.35600	(93072703)	374700.00	4754700.00	61.64778	(93090706)
375200.00	4749200.00	17.96619	(93112703)	375200.00	4752200.00	127.58500	(93042604)
375700.00	4749700.00	12.98707	(93103101)	375700.00	4751700.00	74.79475	(93110702)
376200.00	4749200.00	12.08982	(93020406)	376300.00	4752400.00	20.70156	(93092019)
376700.00	4749700.00	18.35348	(93112602)	376700.00	4750700.00	28.69633	(93112601)
376700.00	4751700.00	9.60319	(93101218)	376700.00	4752700.00	9.16437	(93060421)
376700.00	4753700.00	65.87310	(93042604)	376700.00	4754700.00	16.70539	(93110820)
376700.00	4758700.00	14.18162	(93102318)	377200.00	4752200.00	14.21833	(93080102)
378700.00	4747700.00	7.00563	(93112602)	378700.00	4748700.00	11.02402	(93011419)
378700.00	4749700.00	16.05363	(93111006)	378700.00	4750700.00	14.62852	(93012722)
378700.00	4751700.00	10.94337	(93121701)	378700.00	4752700.00	15.77180	(93092302)
378700.00	4753700.00	15.67808	(93081403)	378700.00	4754700.00	28.44752	(93121503)
379400.00	4753600.00	21.64344	(93062902)	380700.00	4746700.00	25.43297	(93082603)
380700.00	4748700.00	27.18532	(93010405)	380700.00	4750700.00	15.85821	(93122520)
380700.00	4752700.00	22.21288	(93050920)	380700.00	4754700.00	14.14633	(93081403)
380700.00	4756700.00	13.42461	(93121503)	380700.00	4758700.00	7.16779	(93102302)
380889.00	4747781.00	13.00040	(93082704)	382700.00	4748700.00	24.71636	(93112601)
382700.00	4750700.00	21.61104	(93102304)	382700.00	4752700.00	19.64778	(93110702)
382700.00	4754700.00	9.45455	(93062902)	382700.00	4756700.00	9.37729	(93030520)
382700.00	4758700.00	12.75136	(93093003)	382800.00	4746400.00	18.05268	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G21 ***
INCLUDING SOURCE(S): PHOSDOCK,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	10.64962	(93012006)	360000.00	4750000.00	8.64920	(93071921)
364700.00	4750700.00	9.25308	(93092002)	364700.00	4754700.00	15.53661	(93050524)
366700.00	4756700.00	10.87409	(93082303)	370700.00	4758700.00	15.29832	(93092319)
368700.00	4752700.00	20.28691	(93082004)	372700.00	4756700.00	36.21159	(93061204)
368700.00	4744700.00	4.78366	(93073005)	368700.00	4748700.00	26.05103	(93012006)
376150.00	4752050.00	9.13914	(93090419)	376200.00	4752050.00	9.00578	(93051921)
376250.00	4752050.00	9.33111	(93051921)	376100.00	4752100.00	9.15103	(93071104)
376150.00	4752100.00	8.99025	(93071104)	376250.00	4752100.00	8.76187	(93090419)
376150.00	4752150.00	8.43904	(93042502)	376200.00	4752150.00	8.52815	(93071104)
376250.00	4752150.00	8.49679	(93071104)	374900.00	4751750.00	36.49800	(93052524)
374950.00	4751775.00	30.75085	(93052524)	375000.00	4751790.00	28.31121	(93061604)
375050.00	4751775.00	29.61039	(93081819)	375100.00	4751775.00	27.08387	(93081819)
375050.00	4751800.00	27.79409	(93061604)	375100.00	4751800.00	27.19084	(93081819)
374950.00	4751850.00	94.27030	(93121503)	375000.00	4751850.00	55.01053	(93121503)
375050.00	4751850.00	33.85480	(93052524)	375100.00	4751850.00	27.77195	(93061604)
376400.00	4750490.00	32.58809	(93112602)	376450.00	4750490.00	31.30846	(93112602)
376500.00	4750490.00	29.91632	(93112602)	376400.00	4750540.00	32.77166	(93112602)
376500.00	4750540.00	30.30612	(93112602)	376550.00	4750540.00	29.45230	(93112602)
376400.00	4750590.00	33.40295	(93112602)	376450.00	4750590.00	32.23699	(93112602)
376500.00	4750590.00	31.21250	(93112602)	376450.00	4750640.00	33.37252	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G22 ***
INCLUDING SOURCE(S): BOILER3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	12.53899	(93030102)	375000.00	4751800.00	103.39420	(93112106)
377900.00	4754300.00	32.38614	(93121503)	377950.00	4751300.00	28.61625	(93090605)
371650.00	4748400.00	13.41578	(93072804)	357000.00	4743000.00	8.61594	(93121903)
376450.00	4750540.00	30.60420	(93112602)	364700.00	4746700.00	16.99839	(93121903)
364700.00	4758700.00	10.42879	(93122624)	366700.00	4742700.00	15.65773	(93120519)
366700.00	4758700.00	12.63277	(93082620)	370700.00	4747700.00	10.43245	(93011408)
370700.00	4748700.00	12.58830	(93011503)	370700.00	4749700.00	42.23705	(93020520)
370700.00	4750700.00	33.49947	(93111323)	370700.00	4751700.00	28.11186	(93112003)
370700.00	4752700.00	50.15586	(93091221)	370700.00	4754700.00	36.22293	(93093021)
371760.00	4750600.00	37.35335	(93011823)	372700.00	4746700.00	9.18900	(93112607)
372700.00	4747700.00	13.81931	(93112607)	372700.00	4748700.00	17.73816	(93112607)
372700.00	4749700.00	19.64070	(93072804)	372700.00	4751700.00	107.49010	(93082705)
372700.00	4752700.00	84.88332	(93082303)	372700.00	4753700.00	56.94176	(93111405)
372700.00	4754700.00	39.86881	(93100219)	373200.00	4749200.00	57.68613	(93093023)
373200.00	4750200.00	78.05439	(93122420)	373200.00	4751200.00	36.40440	(93013003)
373200.00	4752200.00	121.96610	(93072903)	373700.00	4748700.00	23.08681	(93112706)
373700.00	4749700.00	44.03494	(93112607)	373700.00	4751700.00	196.67590	(93030919)
374200.00	4749200.00	31.11701	(93112502)	374200.00	4752200.00	90.98372	(93061204)
374700.00	4748700.00	11.46205	(93112703)	374700.00	4749700.00	49.37878	(93112703)
374700.00	4751700.00	155.25790	(93093003)	374700.00	4752700.00	55.80924	(93072703)
374700.00	4753700.00	51.83830	(93090706)	374700.00	4754700.00	39.06858	(93090706)
375200.00	4749200.00	16.71232	(93112703)	375200.00	4752200.00	102.96550	(93042604)
375700.00	4749700.00	13.66388	(93012207)	375700.00	4751700.00	75.83091	(93110702)
376200.00	4749200.00	11.32420	(93112523)	376300.00	4752400.00	71.90911	(93081403)
376700.00	4749700.00	17.59610	(93112602)	376700.00	4750700.00	28.03195	(93112601)
376700.00	4751700.00	17.70546	(93073103)	376700.00	4752700.00	40.98596	(93122401)
376700.00	4753700.00	50.66472	(93042604)	376700.00	4754700.00	22.64435	(93110820)
376700.00	4758700.00	17.47734	(93102318)	377200.00	4752200.00	30.75736	(93080102)
378700.00	4747700.00	6.66131	(93112602)	378700.00	4748700.00	10.88719	(93112602)
378700.00	4749700.00	51.26688	(93010405)	378700.00	4750700.00	31.64306	(93012722)
378700.00	4751700.00	27.79427	(93121701)	378700.00	4752700.00	32.40240	(93092302)
378700.00	4753700.00	26.39395	(93081403)	378700.00	4754700.00	30.51753	(93121503)
379400.00	4753600.00	34.30298	(93062902)	380700.00	4746700.00	25.48773	(93082603)
380700.00	4748700.00	24.95606	(93042904)	380700.00	4750700.00	29.25541	(93122520)
380700.00	4752700.00	29.64612	(93050920)	380700.00	4754700.00	20.06508	(93081403)
380700.00	4756700.00	14.70969	(93030819)	380700.00	4758700.00	9.94263	(93102302)
380889.00	4747781.00	7.04718	(93112603)	382700.00	4748700.00	24.05795	(93090203)
382700.00	4750700.00	5.47521	(93020405)	382700.00	4752700.00	5.33996	(93110702)
382700.00	4754700.00	13.10953	(93062902)	382700.00	4756700.00	4.38663	(93121503)
382700.00	4758700.00	15.30805	(93093003)	382800.00	4746400.00	20.10416	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G22 ***
INCLUDING SOURCE(S): BOILER3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	11.48685	(93110903)	360000.00	4750000.00	10.94972	(93092002)
364700.00	4750700.00	14.41772	(93092002)	364700.00	4754700.00	17.34027	(93091221)
366700.00	4756700.00	13.16823	(93020501)	370700.00	4758700.00	15.40574	(93092319)
368700.00	4752700.00	32.64381	(93111105)	372700.00	4756700.00	28.45508	(93061204)
368700.00	4744700.00	4.92052	(93072804)	368700.00	4748700.00	26.41360	(93121903)
376150.00	4752050.00	12.77708	(93090905)	376200.00	4752050.00	13.14828	(93090905)
376250.00	4752050.00	13.09942	(93090905)	376100.00	4752100.00	16.49781	(93092019)
376150.00	4752100.00	12.97462	(93030102)	376250.00	4752100.00	12.12927	(93090905)
376150.00	4752150.00	26.74677	(93092019)	376200.00	4752150.00	18.65971	(93092019)
376250.00	4752150.00	12.47478	(93092019)	374900.00	4751750.00	131.47840	(93030520)
374950.00	4751775.00	115.02180	(93030520)	375000.00	4751790.00	103.78690	(93122401)
375050.00	4751775.00	142.36060	(93081403)	375100.00	4751775.00	138.52500	(93092019)
375050.00	4751800.00	120.73090	(93081403)	375100.00	4751800.00	137.12370	(93081403)
374950.00	4751850.00	123.48180	(93121503)	375000.00	4751850.00	143.43650	(93030520)
375050.00	4751850.00	119.28710	(93030520)	375100.00	4751850.00	94.90186	(93122401)
376400.00	4750490.00	31.81404	(93112602)	376450.00	4750490.00	30.53977	(93112602)
376500.00	4750490.00	29.14925	(93112602)	376400.00	4750540.00	31.99741	(93112602)
376500.00	4750540.00	29.54342	(93112602)	376550.00	4750540.00	28.70253	(93112602)
376400.00	4750590.00	32.64007	(93112602)	376450.00	4750590.00	31.48184	(93112602)
376500.00	4750590.00	30.46725	(93112602)	376450.00	4750640.00	32.64202	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G23 ***
INCLUDING SOURCE(S): BOILER4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	12.36625	(93030102)	375000.00	4751800.00	62.01504	(93051801)
377900.00	4754300.00	33.73376	(93121503)	377950.00	4751300.00	30.48469	(93090605)
371650.00	4748400.00	13.39046	(93072804)	357000.00	4743000.00	8.88882	(93121903)
376450.00	4750540.00	30.45225	(93112602)	364700.00	4746700.00	18.09734	(93121903)
364700.00	4758700.00	10.51205	(93122624)	366700.00	4742700.00	15.75903	(93120519)
366700.00	4758700.00	12.64436	(93082620)	370700.00	4747700.00	10.41710	(93011408)
370700.00	4748700.00	12.57332	(93011503)	370700.00	4749700.00	46.21210	(93020520)
370700.00	4750700.00	33.97226	(93111323)	370700.00	4751700.00	27.16414	(93112003)
370700.00	4752700.00	50.37920	(93091221)	370700.00	4754700.00	36.07022	(93093021)
371760.00	4750600.00	65.00009	(93011823)	372700.00	4746700.00	9.16532	(93112607)
372700.00	4747700.00	13.77885	(93112607)	372700.00	4748700.00	17.68074	(93112607)
372700.00	4749700.00	19.59866	(93072804)	372700.00	4751700.00	109.46530	(93082705)
372700.00	4752700.00	85.57729	(93082303)	372700.00	4753700.00	58.25228	(93111405)
372700.00	4754700.00	39.81295	(93100219)	373200.00	4749200.00	57.03382	(93070704)
373200.00	4750200.00	78.31808	(93122420)	373200.00	4751200.00	89.88219	(93030106)
373200.00	4752200.00	124.24560	(93072903)	373700.00	4748700.00	22.97203	(93112706)
373700.00	4749700.00	43.73356	(93112607)	373700.00	4751700.00	197.15280	(93100224)
374200.00	4749200.00	30.90998	(93112502)	374200.00	4752200.00	91.39222	(93061204)
374700.00	4748700.00	11.39455	(93112703)	374700.00	4749700.00	48.91978	(93112703)
374700.00	4751700.00	159.94310	(93121503)	374700.00	4752700.00	53.65461	(93072703)
374700.00	4753700.00	51.54478	(93090706)	374700.00	4754700.00	39.82943	(93090706)
375200.00	4749200.00	16.59690	(93112703)	375200.00	4752200.00	101.17190	(93042604)
375700.00	4749700.00	13.56013	(93012207)	375700.00	4751700.00	75.71848	(93110702)
376200.00	4749200.00	11.26244	(93112523)	376300.00	4752400.00	36.40269	(93100902)
376700.00	4749700.00	17.51185	(93112602)	376700.00	4750700.00	27.91796	(93112601)
376700.00	4751700.00	18.65341	(93073103)	376700.00	4752700.00	23.16732	(93031023)
376700.00	4753700.00	51.70580	(93042604)	376700.00	4754700.00	22.65357	(93110820)
376700.00	4758700.00	17.65055	(93102318)	377200.00	4752200.00	32.26584	(93080102)
378700.00	4747700.00	6.64497	(93112602)	378700.00	4748700.00	10.86041	(93112602)
378700.00	4749700.00	51.83541	(93010405)	378700.00	4750700.00	31.08101	(93012722)
378700.00	4751700.00	27.74398	(93121701)	378700.00	4752700.00	30.75620	(93092302)
378700.00	4753700.00	23.32763	(93081403)	378700.00	4754700.00	29.70657	(93121503)
379400.00	4753600.00	34.55165	(93062902)	380700.00	4746700.00	25.29155	(93082603)
380700.00	4748700.00	24.97054	(93042904)	380700.00	4750700.00	29.13589	(93122520)
380700.00	4752700.00	29.68602	(93050920)	380700.00	4754700.00	19.05836	(93081403)
380700.00	4756700.00	14.65995	(93030819)	380700.00	4758700.00	9.96400	(93102302)
380889.00	4747781.00	30.81663	(93071424)	382700.00	4748700.00	23.68245	(93090203)
382700.00	4750700.00	5.47123	(93020405)	382700.00	4752700.00	5.33847	(93110702)
382700.00	4754700.00	12.46319	(93062902)	382700.00	4756700.00	4.38856	(93121503)
382700.00	4758700.00	15.06426	(93093003)	382800.00	4746400.00	17.76468	(93092106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G23 ***
INCLUDING SOURCE(S): BOILER4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.30715	(93110903)	360000.00	4750000.00	10.76699	(93092002)
364700.00	4750700.00	14.58945	(93092002)	364700.00	4754700.00	17.45681	(93091221)
366700.00	4756700.00	12.69036	(93020501)	370700.00	4758700.00	15.39133	(93092319)
368700.00	4752700.00	32.68093	(93111105)	372700.00	4756700.00	28.49604	(93061204)
368700.00	4744700.00	4.91577	(93072804)	368700.00	4748700.00	28.82346	(93121903)
376150.00	4752050.00	13.07171	(93090905)	376200.00	4752050.00	13.14056	(93090905)
376250.00	4752050.00	13.14106	(93051921)	376100.00	4752100.00	13.33473	(93030102)
376150.00	4752100.00	12.97087	(93030102)	376250.00	4752100.00	12.66375	(93090905)
376150.00	4752150.00	12.64139	(93042502)	376200.00	4752150.00	12.24529	(93030102)
376250.00	4752150.00	12.09949	(93030102)	374900.00	4751750.00	74.96401	(93051801)
374950.00	4751775.00	68.41488	(93051801)	375000.00	4751790.00	64.86280	(93061604)
375050.00	4751775.00	51.03083	(93121622)	375100.00	4751775.00	55.07972	(93042502)
375050.00	4751800.00	60.08426	(93061604)	375100.00	4751800.00	47.19759	(93061604)
374950.00	4751850.00	114.34310	(93121503)	375000.00	4751850.00	75.73505	(93052524)
375050.00	4751850.00	61.15417	(93051801)	375100.00	4751850.00	53.44725	(93061604)
376400.00	4750490.00	31.64925	(93112602)	376450.00	4750490.00	30.38613	(93112602)
376500.00	4750490.00	29.00676	(93112602)	376400.00	4750540.00	31.83376	(93112602)
376500.00	4750540.00	29.40096	(93112602)	376550.00	4750540.00	28.56803	(93112602)
376400.00	4750590.00	32.47553	(93112602)	376450.00	4750590.00	31.32784	(93112602)
376500.00	4750590.00	30.32255	(93112602)	376450.00	4750640.00	32.48498	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G24 ***
INCLUDING SOURCE(S): 1FURTAPH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.84807	(93062902)	375000.00	4751800.00	52.39075	(93030520)
377900.00	4754300.00	12.68367	(93121503)	377950.00	4751300.00	14.88839	(93032501)
371650.00	4748400.00	42.69569	(93070705)	357000.00	4743000.00	4.38935	(93012006)
376450.00	4750540.00	24.52421	(93112602)	364700.00	4746700.00	9.93291	(93012006)
364700.00	4758700.00	2.93873	(93091801)	366700.00	4742700.00	11.08878	(93070705)
366700.00	4758700.00	4.06170	(93082620)	370700.00	4747700.00	30.31545	(93092224)
370700.00	4748700.00	42.79310	(93021020)	370700.00	4749700.00	19.65045	(93012006)
370700.00	4750700.00	20.99984	(93081705)	370700.00	4751700.00	17.26823	(93042703)
370700.00	4752700.00	16.94435	(93082804)	370700.00	4754700.00	12.19032	(93093021)
371760.00	4750600.00	21.10697	(93012206)	372700.00	4746700.00	7.50103	(93112607)
372700.00	4747700.00	10.96253	(93120521)	372700.00	4748700.00	14.56767	(93112607)
372700.00	4749700.00	54.45433	(93092224)	372700.00	4751700.00	30.23439	(93052305)
372700.00	4752700.00	21.90831	(93091801)	372700.00	4753700.00	17.15693	(93061821)
372700.00	4754700.00	8.31568	(93100219)	373200.00	4749200.00	45.91742	(93093023)
373200.00	4750200.00	64.54905	(93092224)	373200.00	4751200.00	37.81110	(93060302)
373200.00	4752200.00	34.10540	(93030119)	373700.00	4748700.00	18.72764	(93020206)
373700.00	4749700.00	92.35204	(93112706)	373700.00	4751700.00	56.83252	(93101305)
374200.00	4749200.00	25.72820	(93112502)	374200.00	4752200.00	47.63381	(93111119)
374700.00	4748700.00	10.25626	(93112703)	374700.00	4749700.00	130.50570	(93122808)
374700.00	4751700.00	48.28228	(93041903)	374700.00	4752700.00	21.49195	(93040203)
374700.00	4753700.00	16.88289	(93011918)	374700.00	4754700.00	23.11900	(93090706)
375200.00	4749200.00	14.59025	(93112703)	375200.00	4752200.00	30.27596	(93042604)
375700.00	4749700.00	10.35327	(93103101)	375700.00	4751700.00	56.38385	(93021424)
376200.00	4749200.00	9.80908	(93020406)	376300.00	4752400.00	18.57504	(93031023)
376700.00	4749700.00	14.45892	(93112602)	376700.00	4750700.00	22.29999	(93112601)
376700.00	4751700.00	15.93676	(93082524)	376700.00	4752700.00	13.70958	(93091305)
376700.00	4753700.00	22.61321	(93042604)	376700.00	4754700.00	10.63536	(93110820)
376700.00	4758700.00	8.02286	(93102318)	377200.00	4752200.00	16.64105	(93092302)
378700.00	4747700.00	5.45117	(93112602)	378700.00	4748700.00	15.62829	(93100206)
378700.00	4749700.00	31.08183	(93010405)	378700.00	4750700.00	17.09952	(93012722)
378700.00	4751700.00	11.83181	(93121701)	378700.00	4752700.00	16.93621	(93092302)
378700.00	4753700.00	9.95734	(93122401)	378700.00	4754700.00	17.65085	(93121503)
379400.00	4753600.00	14.19480	(93072124)	380700.00	4746700.00	12.88570	(93082603)
380700.00	4748700.00	14.62095	(93010405)	380700.00	4750700.00	14.83482	(93122520)
380700.00	4752700.00	15.27364	(93021424)	380700.00	4754700.00	8.68189	(93081403)
380700.00	4756700.00	6.69986	(93030819)	380700.00	4758700.00	2.99154	(93102302)
380889.00	4747781.00	21.89865	(93072104)	382700.00	4748700.00	14.78104	(93112601)
382700.00	4750700.00	7.54530	(93122508)	382700.00	4752700.00	3.79119	(93021424)
382700.00	4754700.00	8.41110	(93062902)	382700.00	4756700.00	3.13739	(93081403)
382700.00	4758700.00	8.03961	(93093003)	382800.00	4746400.00	10.17884	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G24 ***
INCLUDING SOURCE(S): 1FURTAPH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	6.13286	(93092004)	360000.00	4750000.00	6.15388	(93092002)
364700.00	4750700.00	7.30023	(93102606)	364700.00	4754700.00	7.09764	(93082804)
366700.00	4756700.00	3.56442	(93082303)	370700.00	4758700.00	4.35103	(93092319)
368700.00	4752700.00	11.76064	(93012801)	372700.00	4756700.00	16.18400	(93090705)
368700.00	4744700.00	17.54784	(93120519)	368700.00	4748700.00	13.15973	(93012006)
376150.00	4752050.00	10.52814	(93050905)	376200.00	4752050.00	12.19483	(93050905)
376250.00	4752050.00	13.00756	(93050905)	376100.00	4752100.00	12.34233	(93062902)
376150.00	4752100.00	10.28092	(93062902)	376250.00	4752100.00	8.78923	(93050905)
376150.00	4752150.00	13.04701	(93062902)	376200.00	4752150.00	12.55674	(93062902)
376250.00	4752150.00	11.00243	(93062902)	374900.00	4751750.00	62.35071	(93052524)
374950.00	4751775.00	56.19544	(93052524)	375000.00	4751790.00	48.32547	(93030520)
375050.00	4751775.00	45.02599	(93063023)	375100.00	4751775.00	43.88446	(93091305)
375050.00	4751800.00	47.19904	(93063023)	375100.00	4751800.00	43.96774	(93091305)
374950.00	4751850.00	51.87506	(93030819)	375000.00	4751850.00	45.81862	(93091923)
375050.00	4751850.00	49.91993	(93052524)	375100.00	4751850.00	40.82624	(93030520)
376400.00	4750490.00	25.47224	(93112602)	376450.00	4750490.00	24.46633	(93112602)
376500.00	4750490.00	23.38058	(93112602)	376400.00	4750540.00	25.61733	(93112602)
376500.00	4750540.00	23.67713	(93112602)	376550.00	4750540.00	22.99384	(93112602)
376400.00	4750590.00	26.09382	(93112602)	376450.00	4750590.00	25.17035	(93112602)
376500.00	4750590.00	24.33033	(93112601)	376450.00	4750640.00	25.99188	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G25 ***
INCLUDING SOURCE(S): 2FURTAPH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	8.07644	(93062902)	375000.00	4751800.00	52.54713	(93030520)
377900.00	4754300.00	12.51120	(93121503)	377950.00	4751300.00	14.98580	(93032501)
371650.00	4748400.00	42.47626	(93070705)	357000.00	4743000.00	4.39792	(93012006)
376450.00	4750540.00	24.54837	(93112602)	364700.00	4746700.00	9.96662	(93012006)
364700.00	4758700.00	2.93897	(93091801)	366700.00	4742700.00	11.10754	(93070705)
366700.00	4758700.00	4.06020	(93082620)	370700.00	4747700.00	30.09053	(93092224)
370700.00	4748700.00	42.81853	(93021020)	370700.00	4749700.00	19.59706	(93012006)
370700.00	4750700.00	20.96328	(93081705)	370700.00	4751700.00	17.33545	(93042703)
370700.00	4752700.00	16.92960	(93082804)	370700.00	4754700.00	12.17723	(93093021)
371760.00	4750600.00	21.09034	(93012206)	372700.00	4746700.00	7.50330	(93112607)
372700.00	4747700.00	10.96610	(93012201)	372700.00	4748700.00	14.57232	(93112607)
372700.00	4749700.00	53.63973	(93092224)	372700.00	4751700.00	30.39246	(93052305)
372700.00	4752700.00	21.91127	(93091801)	372700.00	4753700.00	17.15229	(93061821)
372700.00	4754700.00	8.31911	(93100219)	373200.00	4749200.00	45.97862	(93093023)
373200.00	4750200.00	63.19658	(93092224)	373200.00	4751200.00	37.61689	(93060302)
373200.00	4752200.00	34.10390	(93030119)	373700.00	4748700.00	18.73931	(93020206)
373700.00	4749700.00	93.89027	(93112706)	373700.00	4751700.00	56.84694	(93101305)
374200.00	4749200.00	25.75147	(93112502)	374200.00	4752200.00	47.76854	(93111119)
374700.00	4748700.00	10.26503	(93112703)	374700.00	4749700.00	130.91060	(93122808)
374700.00	4751700.00	54.00523	(93041903)	374700.00	4752700.00	21.21957	(93040203)
374700.00	4753700.00	17.02451	(93011918)	374700.00	4754700.00	22.94256	(93090706)
375200.00	4749200.00	14.60600	(93112703)	375200.00	4752200.00	29.26615	(93042604)
375700.00	4749700.00	10.36218	(93103101)	375700.00	4751700.00	56.42268	(93021424)
376200.00	4749200.00	9.81818	(93020406)	376300.00	4752400.00	18.63920	(93031023)
376700.00	4749700.00	14.47157	(93112602)	376700.00	4750700.00	22.31896	(93112601)
376700.00	4751700.00	15.89031	(93082524)	376700.00	4752700.00	13.62515	(93091305)
376700.00	4753700.00	22.35001	(93042604)	376700.00	4754700.00	10.60930	(93110820)
376700.00	4758700.00	8.00080	(93102318)	377200.00	4752200.00	16.85261	(93092302)
378700.00	4747700.00	5.45356	(93112602)	378700.00	4748700.00	15.60125	(93100206)
378700.00	4749700.00	30.92491	(93010405)	378700.00	4750700.00	17.04266	(93012722)
378700.00	4751700.00	11.75875	(93121701)	378700.00	4752700.00	16.96807	(93092302)
378700.00	4753700.00	10.02191	(93122401)	378700.00	4754700.00	17.70593	(93121503)
379400.00	4753600.00	14.22107	(93072124)	380700.00	4746700.00	12.88537	(93082603)
380700.00	4748700.00	14.63944	(93010405)	380700.00	4750700.00	14.79887	(93122520)
380700.00	4752700.00	15.22287	(93021424)	380700.00	4754700.00	8.60244	(93081403)
380700.00	4756700.00	6.69604	(93030819)	380700.00	4758700.00	2.98819	(93102302)
380889.00	4747781.00	21.92005	(93072104)	382700.00	4748700.00	14.78896	(93112601)
382700.00	4750700.00	7.55836	(93122508)	382700.00	4752700.00	3.79166	(93021424)
382700.00	4754700.00	8.46307	(93062902)	382700.00	4756700.00	3.13741	(93081403)
382700.00	4758700.00	8.05961	(93093003)	382800.00	4746400.00	10.17790	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G25 ***
INCLUDING SOURCE(S): 2FURTAPH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	6.15032	(93092004)	360000.00	4750000.00	6.16371	(93092002)
364700.00	4750700.00	7.30466	(93102606)	364700.00	4754700.00	7.10237	(93082804)
366700.00	4756700.00	3.56780	(93082303)	370700.00	4758700.00	4.35087	(93092319)
368700.00	4752700.00	11.77482	(93012801)	372700.00	4756700.00	16.18016	(93090705)
368700.00	4744700.00	17.59320	(93120519)	368700.00	4748700.00	13.18746	(93012006)
376150.00	4752050.00	10.31082	(93050905)	376200.00	4752050.00	12.04817	(93050905)
376250.00	4752050.00	12.95404	(93050905)	376100.00	4752100.00	12.48101	(93062902)
376150.00	4752100.00	10.49223	(93062902)	376250.00	4752100.00	8.56853	(93050905)
376150.00	4752150.00	13.01527	(93062902)	376200.00	4752150.00	12.64232	(93062902)
376250.00	4752150.00	11.17117	(93062902)	374900.00	4751750.00	61.51848	(93052524)
374950.00	4751775.00	57.18565	(93052524)	375000.00	4751790.00	49.72192	(93030520)
375050.00	4751775.00	46.52067	(93063023)	375100.00	4751775.00	45.06026	(93091305)
375050.00	4751800.00	45.96069	(93063023)	375100.00	4751800.00	42.76361	(93091305)
374950.00	4751850.00	52.43443	(93030819)	375000.00	4751850.00	44.59153	(93110505)
375050.00	4751850.00	50.03181	(93052524)	375100.00	4751850.00	42.31072	(93030520)
376400.00	4750490.00	25.49810	(93112602)	376450.00	4750490.00	24.49055	(93112602)
376500.00	4750490.00	23.40317	(93112602)	376400.00	4750540.00	25.64322	(93112602)
376500.00	4750540.00	23.69989	(93112602)	376550.00	4750540.00	23.01541	(93112602)
376400.00	4750590.00	26.12004	(93112602)	376450.00	4750590.00	25.19501	(93112602)
376500.00	4750590.00	24.35357	(93112601)	376450.00	4750640.00	26.01716	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G26 ***
INCLUDING SOURCE(S): 3FURTAPH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.12655	(93062902)	375000.00	4751800.00	38.32752	(93063023)
377900.00	4754300.00	14.95596	(93121503)	377950.00	4751300.00	15.80488	(93032501)
371650.00	4748400.00	46.16713	(93070705)	357000.00	4743000.00	4.35373	(93012006)
376450.00	4750540.00	23.71361	(93112602)	364700.00	4746700.00	9.79655	(93012006)
364700.00	4758700.00	2.94540	(93091801)	366700.00	4742700.00	10.80233	(93120519)
366700.00	4758700.00	3.79316	(93082620)	370700.00	4747700.00	34.43354	(93092224)
370700.00	4748700.00	42.58802	(93021020)	370700.00	4749700.00	20.05189	(93012006)
370700.00	4750700.00	21.02126	(93081705)	370700.00	4751700.00	18.25899	(93042703)
370700.00	4752700.00	15.73667	(93082804)	370700.00	4754700.00	11.83144	(93030506)
371760.00	4750600.00	21.35578	(93012206)	372700.00	4746700.00	7.58869	(93112607)
372700.00	4747700.00	11.13604	(93011904)	372700.00	4748700.00	14.90100	(93112607)
372700.00	4749700.00	66.95020	(93092224)	372700.00	4751700.00	30.23222	(93052305)
372700.00	4752700.00	22.66269	(93112017)	372700.00	4753700.00	16.41177	(93030920)
372700.00	4754700.00	8.38459	(93052420)	373200.00	4749200.00	46.79155	(93070704)
373200.00	4750200.00	82.19843	(93092224)	373200.00	4751200.00	37.59238	(93060302)
373200.00	4752200.00	33.69024	(93082303)	373700.00	4748700.00	19.07876	(93020206)
373700.00	4749700.00	35.88570	(93112706)	373700.00	4751700.00	58.66327	(93071503)
374200.00	4749200.00	26.15831	(93112502)	374200.00	4752200.00	40.17008	(93021919)
374700.00	4748700.00	10.32494	(93112703)	374700.00	4749700.00	130.73470	(93012020)
374700.00	4751700.00	72.18941	(93093003)	374700.00	4752700.00	23.63415	(93082803)
374700.00	4753700.00	17.43831	(93072703)	374700.00	4754700.00	28.41251	(93090706)
375200.00	4749200.00	14.55715	(93112703)	375200.00	4752200.00	35.44444	(93042604)
375700.00	4749700.00	10.47329	(93102607)	375700.00	4751700.00	52.52908	(93021424)
376200.00	4749200.00	9.68004	(93020406)	376300.00	4752400.00	19.47558	(93081403)
376700.00	4749700.00	14.16391	(93112602)	376700.00	4750700.00	21.56010	(93112601)
376700.00	4751700.00	15.29902	(93082524)	376700.00	4752700.00	13.88335	(93091305)
376700.00	4753700.00	25.97692	(93042604)	376700.00	4754700.00	10.45373	(93110820)
376700.00	4758700.00	8.55407	(93102318)	377200.00	4752200.00	16.51573	(93092302)
378700.00	4747700.00	5.40181	(93112602)	378700.00	4748700.00	14.11262	(93112705)
378700.00	4749700.00	30.45771	(93022604)	378700.00	4750700.00	16.95725	(93030203)
378700.00	4751700.00	10.91908	(93121701)	378700.00	4752700.00	16.71356	(93092302)
378700.00	4753700.00	9.67434	(93031023)	378700.00	4754700.00	16.59584	(93121503)
379400.00	4753600.00	13.89515	(93072124)	380700.00	4746700.00	12.19063	(93082603)
380700.00	4748700.00	14.87369	(93010405)	380700.00	4750700.00	13.85008	(93122520)
380700.00	4752700.00	14.93397	(93021424)	380700.00	4754700.00	9.14701	(93081403)
380700.00	4756700.00	6.65557	(93030819)	380700.00	4758700.00	3.02101	(93102302)
380889.00	4747781.00	22.09149	(93072104)	382700.00	4748700.00	14.68761	(93112601)
382700.00	4750700.00	7.66017	(93122508)	382700.00	4752700.00	3.75040	(93021424)
382700.00	4754700.00	8.17469	(93062902)	382700.00	4756700.00	3.10869	(93081403)
382700.00	4758700.00	7.65140	(93093003)	382800.00	4746400.00	10.29805	(93072905)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G26 ***
INCLUDING SOURCE(S): 3FURTAPH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	6.07991	(93092004)	360000.00	4750000.00	6.26894	(93092002)
364700.00	4750700.00	7.37852	(93102606)	364700.00	4754700.00	7.25706	(93082804)
366700.00	4756700.00	3.77376	(93082303)	370700.00	4758700.00	4.19473	(93092319)
368700.00	4752700.00	12.02057	(93012801)	372700.00	4756700.00	15.13477	(93111019)
368700.00	4744700.00	16.67624	(93112422)	368700.00	4748700.00	13.07851	(93012006)
376150.00	4752050.00	10.79482	(93050905)	376200.00	4752050.00	12.25777	(93050905)
376250.00	4752050.00	12.89838	(93050905)	376100.00	4752100.00	11.63179	(93062902)
376150.00	4752100.00	9.47432	(93062902)	376250.00	4752100.00	9.14764	(93050905)
376150.00	4752150.00	12.87884	(93062902)	376200.00	4752150.00	12.01081	(93062902)
376250.00	4752150.00	10.28181	(93062902)	374900.00	4751750.00	52.05671	(93030520)
374950.00	4751775.00	44.09535	(93030520)	375000.00	4751790.00	45.78578	(93063023)
375050.00	4751775.00	46.83401	(93091305)	375100.00	4751775.00	38.31059	(93031023)
375050.00	4751800.00	45.04404	(93063023)	375100.00	4751800.00	43.95312	(93091305)
374950.00	4751850.00	45.80698	(93110505)	375000.00	4751850.00	48.00502	(93091923)
375050.00	4751850.00	45.87392	(93030520)	375100.00	4751850.00	41.27150	(93063023)
376400.00	4750490.00	24.64239	(93112602)	376450.00	4750490.00	23.67769	(93112602)
376500.00	4750490.00	22.63507	(93112602)	376400.00	4750540.00	24.76074	(93112602)
376500.00	4750540.00	22.87929	(93112601)	376550.00	4750540.00	22.22784	(93112601)
376400.00	4750590.00	25.17283	(93112601)	376450.00	4750590.00	24.29251	(93112601)
376500.00	4750590.00	23.51660	(93112601)	376450.00	4750640.00	25.09061	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G27 ***
INCLUDING SOURCE(S): 4FURTAPH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.37666	(93062902)	375000.00	4751800.00	38.30816	(93030520)
377900.00	4754300.00	14.75266	(93121503)	377950.00	4751300.00	15.86491	(93032501)
371650.00	4748400.00	46.09331	(93070705)	357000.00	4743000.00	4.36401	(93012006)
376450.00	4750540.00	23.74629	(93112602)	364700.00	4746700.00	9.83776	(93012006)
364700.00	4758700.00	2.94497	(93091801)	366700.00	4742700.00	10.78252	(93120519)
366700.00	4758700.00	3.79354	(93082620)	370700.00	4747700.00	34.20423	(93092224)
370700.00	4748700.00	42.72895	(93021020)	370700.00	4749700.00	20.01089	(93012006)
370700.00	4750700.00	20.95630	(93081705)	370700.00	4751700.00	18.27516	(93042703)
370700.00	4752700.00	15.68461	(93082804)	370700.00	4754700.00	11.82882	(93030506)
371760.00	4750600.00	21.41436	(93042304)	372700.00	4746700.00	7.59052	(93112607)
372700.00	4747700.00	11.13863	(93011904)	372700.00	4748700.00	14.90349	(93112607)
372700.00	4749700.00	66.47611	(93092224)	372700.00	4751700.00	30.00963	(93052305)
372700.00	4752700.00	22.66561	(93112017)	372700.00	4753700.00	16.42406	(93030920)
372700.00	4754700.00	8.39883	(93052420)	373200.00	4749200.00	46.93186	(93070704)
373200.00	4750200.00	81.88907	(93092224)	373200.00	4751200.00	36.98666	(93060302)
373200.00	4752200.00	33.66462	(93082303)	373700.00	4748700.00	19.08935	(93020206)
373700.00	4749700.00	37.96972	(93112706)	373700.00	4751700.00	58.32056	(93071503)
374200.00	4749200.00	26.18189	(93112502)	374200.00	4752200.00	39.20327	(93021919)
374700.00	4748700.00	10.33444	(93112703)	374700.00	4749700.00	130.02100	(93012020)
374700.00	4751700.00	72.23138	(93093003)	374700.00	4752700.00	24.03528	(93082803)
374700.00	4753700.00	17.30270	(93072703)	374700.00	4754700.00	28.38527	(93090706)
375200.00	4749200.00	14.57528	(93112703)	375200.00	4752200.00	35.64958	(93042604)
375700.00	4749700.00	10.48418	(93102607)	375700.00	4751700.00	52.60129	(93021424)
376200.00	4749200.00	9.69122	(93020406)	376300.00	4752400.00	19.00590	(93081403)
376700.00	4749700.00	14.18025	(93112602)	376700.00	4750700.00	21.58665	(93112601)
376700.00	4751700.00	15.19860	(93082524)	376700.00	4752700.00	13.84717	(93091305)
376700.00	4753700.00	25.78240	(93042604)	376700.00	4754700.00	10.48866	(93110820)
376700.00	4758700.00	8.54160	(93102318)	377200.00	4752200.00	16.74214	(93092302)
378700.00	4747700.00	5.40490	(93112602)	378700.00	4748700.00	14.11856	(93112705)
378700.00	4749700.00	30.50103	(93022604)	378700.00	4750700.00	16.96506	(93030203)
378700.00	4751700.00	10.83492	(93121701)	378700.00	4752700.00	16.74946	(93092302)
378700.00	4753700.00	9.67585	(93031023)	378700.00	4754700.00	16.69612	(93121503)
379400.00	4753600.00	13.93497	(93072124)	380700.00	4746700.00	12.19044	(93082603)
380700.00	4748700.00	14.87680	(93010405)	380700.00	4750700.00	13.80503	(93122520)
380700.00	4752700.00	14.87638	(93021424)	380700.00	4754700.00	9.05512	(93081403)
380700.00	4756700.00	6.65883	(93030819)	380700.00	4758700.00	3.02025	(93102302)
380889.00	4747781.00	22.09655	(93072104)	382700.00	4748700.00	14.68666	(93112601)
382700.00	4750700.00	7.67157	(93122508)	382700.00	4752700.00	3.75129	(93021424)
382700.00	4754700.00	8.23465	(93062902)	382700.00	4756700.00	3.10897	(93081403)
382700.00	4758700.00	7.68127	(93093003)	382800.00	4746400.00	10.30625	(93072905)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G27 ***
INCLUDING SOURCE(S): 4FURTAPH,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	6.10050	(93092004)	360000.00	4750000.00	6.27810	(93092002)
364700.00	4750700.00	7.38011	(93102606)	364700.00	4754700.00	7.25706	(93082804)
366700.00	4756700.00	3.77422	(93082303)	370700.00	4758700.00	4.19899	(93092319)
368700.00	4752700.00	12.01657	(93012801)	372700.00	4756700.00	15.10897	(93111019)
368700.00	4744700.00	16.65515	(93112422)	368700.00	4748700.00	13.11849	(93012006)
376150.00	4752050.00	10.56997	(93050905)	376200.00	4752050.00	12.11474	(93050905)
376250.00	4752050.00	12.85626	(93050905)	376100.00	4752100.00	11.81940	(93062902)
376150.00	4752100.00	9.72097	(93062902)	376250.00	4752100.00	8.91117	(93050905)
376150.00	4752150.00	12.89274	(93062902)	376200.00	4752150.00	12.14279	(93062902)
376250.00	4752150.00	10.48847	(93062902)	374900.00	4751750.00	53.40369	(93030520)
374950.00	4751775.00	46.26323	(93030520)	375000.00	4751790.00	44.26823	(93063023)
375050.00	4751775.00	46.86873	(93091305)	375100.00	4751775.00	39.29410	(93031023)
375050.00	4751800.00	45.87058	(93063023)	375100.00	4751800.00	44.24720	(93091305)
374950.00	4751850.00	46.35075	(93110505)	375000.00	4751850.00	48.98232	(93091923)
375050.00	4751850.00	46.75440	(93030520)	375100.00	4751850.00	40.22522	(93063023)
376400.00	4750490.00	24.67706	(93112602)	376450.00	4750490.00	23.71029	(93112602)
376500.00	4750490.00	22.66557	(93112602)	376400.00	4750540.00	24.79562	(93112602)
376500.00	4750540.00	22.91014	(93112601)	376550.00	4750540.00	22.25718	(93112601)
376400.00	4750590.00	25.20830	(93112601)	376450.00	4750590.00	24.32599	(93112601)
376500.00	4750590.00	23.54831	(93112601)	376450.00	4750640.00	25.12516	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G28 ***
INCLUDING SOURCE(S): FUR1PRV ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.96237	(93062902)	375000.00	4751800.00	62.58643	(93030520)
377900.00	4754300.00	11.27578	(93121503)	377950.00	4751300.00	12.34551	(93032501)
371650.00	4748400.00	31.87186	(93112518)	357000.00	4743000.00	3.91014	(93012006)
376450.00	4750540.00	22.21848	(93073104)	364700.00	4746700.00	8.61380	(93012006)
364700.00	4758700.00	2.67363	(93112621)	366700.00	4742700.00	9.28953	(93112518)
366700.00	4758700.00	3.77627	(93082620)	370700.00	4747700.00	23.68642	(93092224)
370700.00	4748700.00	34.12938	(93021020)	370700.00	4749700.00	19.02805	(93012006)
370700.00	4750700.00	18.76438	(93012204)	370700.00	4751700.00	16.55487	(93042703)
370700.00	4752700.00	14.36524	(93082804)	370700.00	4754700.00	11.20554	(93093021)
371760.00	4750600.00	23.90087	(93110806)	372700.00	4746700.00	6.76572	(93072704)
372700.00	4747700.00	9.89134	(93012201)	372700.00	4748700.00	13.13641	(93073005)
372700.00	4749700.00	39.61411	(93122420)	372700.00	4751700.00	32.80401	(93013023)
372700.00	4752700.00	21.56333	(93112621)	372700.00	4753700.00	17.38980	(93061821)
372700.00	4754700.00	9.68169	(93100219)	373200.00	4749200.00	39.01553	(93112607)
373200.00	4750200.00	48.78658	(93122420)	373200.00	4751200.00	44.43461	(93121804)
373200.00	4752200.00	33.31507	(93122604)	373700.00	4748700.00	16.90659	(93020206)
373700.00	4749700.00	27.12585	(93081319)	373700.00	4751700.00	67.34175	(93031123)
374200.00	4749200.00	23.30085	(93091919)	374200.00	4752200.00	61.31052	(93052205)
374700.00	4748700.00	9.29502	(93091919)	374700.00	4749700.00	97.76377	(93122808)
374700.00	4751700.00	49.19961	(93042604)	374700.00	4752700.00	16.36657	(93040203)
374700.00	4753700.00	19.63630	(93090706)	374700.00	4754700.00	19.68500	(93090706)
375200.00	4749200.00	13.21825	(93082403)	375200.00	4752200.00	32.70957	(93042604)
375700.00	4749700.00	9.60007	(93103101)	375700.00	4751700.00	50.77634	(93110702)
376200.00	4749200.00	9.01195	(93091519)	376300.00	4752400.00	17.38280	(93081403)
376700.00	4749700.00	13.08995	(93082903)	376700.00	4750700.00	20.21836	(93073104)
376700.00	4751700.00	17.03591	(93082524)	376700.00	4752700.00	11.17123	(93122401)
376700.00	4753700.00	18.77120	(93042604)	376700.00	4754700.00	8.05333	(93110820)
376700.00	4758700.00	6.16204	(93102318)	377200.00	4752200.00	13.20949	(93092302)
378700.00	4747700.00	4.92848	(93082903)	378700.00	4748700.00	13.73226	(93100206)
378700.00	4749700.00	24.25027	(93010405)	378700.00	4750700.00	16.03625	(93012722)
378700.00	4751700.00	9.81176	(93121701)	378700.00	4752700.00	12.92828	(93092302)
378700.00	4753700.00	8.20801	(93122401)	378700.00	4754700.00	16.17284	(93121503)
379400.00	4753600.00	10.87131	(93072124)	380700.00	4746700.00	10.55637	(93121801)
380700.00	4748700.00	12.67357	(93010405)	380700.00	4750700.00	13.71814	(93122520)
380700.00	4752700.00	13.30622	(93021424)	380700.00	4754700.00	7.12436	(93081403)
380700.00	4756700.00	5.22750	(93030819)	380700.00	4758700.00	2.36801	(93102302)
380889.00	4747781.00	17.34963	(93072104)	382700.00	4748700.00	13.33138	(93112601)
382700.00	4750700.00	6.95185	(93122508)	382700.00	4752700.00	3.18213	(93110702)
382700.00	4754700.00	6.96124	(93062902)	382700.00	4756700.00	8.04849	(93030520)
382700.00	4758700.00	6.55636	(93093003)	382800.00	4746400.00	9.24652	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G28 ***
INCLUDING SOURCE(S): FUR1PRV ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	5.16400	(93092004)	360000.00	4750000.00	5.03789	(93092002)
364700.00	4750700.00	6.12705	(93102606)	364700.00	4754700.00	5.82730	(93082804)
366700.00	4756700.00	3.24248	(93082303)	370700.00	4758700.00	4.30668	(93092319)
368700.00	4752700.00	11.35972	(93112606)	372700.00	4756700.00	13.93258	(93090705)
368700.00	4744700.00	14.56479	(93120519)	368700.00	4748700.00	12.38787	(93012006)
376150.00	4752050.00	9.98366	(93050905)	376200.00	4752050.00	11.71438	(93050905)
376250.00	4752050.00	12.63596	(93050905)	376100.00	4752100.00	12.18106	(93062902)
376150.00	4752100.00	10.29739	(93062902)	376250.00	4752100.00	8.12549	(93050905)
376150.00	4752150.00	12.38459	(93062902)	376200.00	4752150.00	12.10499	(93062902)
376250.00	4752150.00	10.75202	(93062902)	374900.00	4751750.00	51.80246	(93030520)
374950.00	4751775.00	61.28529	(93030520)	375000.00	4751790.00	61.67501	(93030520)
375050.00	4751775.00	39.69605	(93112106)	375100.00	4751775.00	38.45561	(93122401)
375050.00	4751800.00	36.89125	(93030520)	375100.00	4751800.00	35.30182	(93112106)
374950.00	4751850.00	43.21378	(93121503)	375000.00	4751850.00	66.53378	(93121503)
375050.00	4751850.00	48.37912	(93030520)	375100.00	4751850.00	50.93518	(93030520)
376400.00	4750490.00	23.07796	(93073104)	376450.00	4750490.00	22.16537	(93073104)
376500.00	4750490.00	21.18070	(93073104)	376400.00	4750540.00	23.21010	(93073104)
376500.00	4750540.00	21.44976	(93073104)	376550.00	4750540.00	20.82943	(93073104)
376400.00	4750590.00	23.64218	(93073104)	376450.00	4750590.00	22.80400	(93073104)
376500.00	4750590.00	22.06462	(93073104)	376450.00	4750640.00	23.57229	(93073104)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G29 ***
INCLUDING SOURCE(S): FUR2PRV ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.89031	(93062902)	375000.00	4751800.00	62.64353	(93030520)
377900.00	4754300.00	11.38962	(93121503)	377950.00	4751300.00	12.36734	(93032501)
371650.00	4748400.00	32.06157	(93112518)	357000.00	4743000.00	3.90755	(93012006)
376450.00	4750540.00	22.18509	(93073104)	364700.00	4746700.00	8.60419	(93012006)
364700.00	4758700.00	2.68646	(93112621)	366700.00	4742700.00	9.27698	(93112518)
366700.00	4758700.00	3.76976	(93082620)	370700.00	4747700.00	23.86207	(93092224)
370700.00	4748700.00	34.14378	(93021020)	370700.00	4749700.00	19.06016	(93012006)
370700.00	4750700.00	18.77530	(93012204)	370700.00	4751700.00	16.59537	(93042703)
370700.00	4752700.00	14.35866	(93082804)	370700.00	4754700.00	11.15964	(93093021)
371760.00	4750600.00	23.92406	(93110806)	372700.00	4746700.00	6.76842	(93072704)
372700.00	4747700.00	9.89682	(93011408)	372700.00	4748700.00	13.14723	(93073005)
372700.00	4749700.00	40.22228	(93122420)	372700.00	4751700.00	32.65976	(93013023)
372700.00	4752700.00	21.98635	(93112621)	372700.00	4753700.00	17.37713	(93061821)
372700.00	4754700.00	9.63334	(93100219)	373200.00	4749200.00	39.02681	(93112607)
373200.00	4750200.00	49.85587	(93122420)	373200.00	4751200.00	44.50533	(93121804)
373200.00	4752200.00	32.70972	(93122604)	373700.00	4748700.00	16.91705	(93101703)
373700.00	4749700.00	27.00648	(93081319)	373700.00	4751700.00	67.54973	(93031123)
374200.00	4749200.00	23.31251	(93091919)	374200.00	4752200.00	60.50861	(93052205)
374700.00	4748700.00	9.29612	(93091919)	374700.00	4749700.00	97.21408	(93122808)
374700.00	4751700.00	55.78754	(93042604)	374700.00	4752700.00	16.81374	(93040203)
374700.00	4753700.00	19.28028	(93090706)	374700.00	4754700.00	20.04227	(93090706)
375200.00	4749200.00	13.21473	(93082403)	375200.00	4752200.00	33.78576	(93042604)
375700.00	4749700.00	9.59481	(93103101)	375700.00	4751700.00	50.62731	(93110702)
376200.00	4749200.00	9.00583	(93091519)	376300.00	4752400.00	17.58414	(93081403)
376700.00	4749700.00	13.07732	(93082903)	376700.00	4750700.00	20.18831	(93073104)
376700.00	4751700.00	17.01635	(93082524)	376700.00	4752700.00	11.20231	(93122401)
376700.00	4753700.00	18.96505	(93042604)	376700.00	4754700.00	8.07524	(93110820)
376700.00	4758700.00	6.19028	(93102318)	377200.00	4752200.00	13.17469	(93092302)
378700.00	4747700.00	4.92633	(93082903)	378700.00	4748700.00	13.64826	(93100206)
378700.00	4749700.00	24.04473	(93010405)	378700.00	4750700.00	15.98736	(93012722)
378700.00	4751700.00	9.79377	(93121701)	378700.00	4752700.00	12.91777	(93092302)
378700.00	4753700.00	8.18027	(93122401)	378700.00	4754700.00	16.13354	(93121503)
379400.00	4753600.00	10.86009	(93072124)	380700.00	4746700.00	10.54626	(93121801)
380700.00	4748700.00	12.69094	(93010405)	380700.00	4750700.00	13.69190	(93122520)
380700.00	4752700.00	13.30269	(93021424)	380700.00	4754700.00	7.15230	(93081403)
380700.00	4756700.00	5.22869	(93030819)	380700.00	4758700.00	2.37052	(93102302)
380889.00	4747781.00	17.37104	(93072104)	382700.00	4748700.00	13.33301	(93112601)
382700.00	4750700.00	6.95438	(93122508)	382700.00	4752700.00	3.18077	(93110702)
382700.00	4754700.00	6.94581	(93062902)	382700.00	4756700.00	8.01739	(93030520)
382700.00	4758700.00	6.54222	(93093003)	382800.00	4746400.00	9.23955	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G29 ***
INCLUDING SOURCE(S): FUR2PRV ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	5.15959	(93092004)	360000.00	4750000.00	5.04007	(93092002)
364700.00	4750700.00	6.12923	(93102606)	364700.00	4754700.00	5.83381	(93082804)
366700.00	4756700.00	3.25196	(93082303)	370700.00	4758700.00	4.30834	(93092319)
368700.00	4752700.00	11.37590	(93112606)	372700.00	4756700.00	13.93833	(93090705)
368700.00	4744700.00	14.53346	(93120519)	368700.00	4748700.00	12.38242	(93012006)
376150.00	4752050.00	10.03447	(93050905)	376200.00	4752050.00	11.74432	(93050905)
376250.00	4752050.00	12.64157	(93050905)	376100.00	4752100.00	12.13115	(93062902)
376150.00	4752100.00	10.22718	(93062902)	376250.00	4752100.00	8.17893	(93050905)
376150.00	4752150.00	12.38987	(93062902)	376200.00	4752150.00	12.07246	(93062902)
376250.00	4752150.00	10.69509	(93062902)	374900.00	4751750.00	53.98205	(93030520)
374950.00	4751775.00	62.36912	(93030520)	375000.00	4751790.00	60.78598	(93030520)
375050.00	4751775.00	39.07761	(93112106)	375100.00	4751775.00	38.00089	(93122401)
375050.00	4751800.00	36.58181	(93112106)	375100.00	4751800.00	34.62893	(93112106)
374950.00	4751850.00	45.54308	(93121503)	375000.00	4751850.00	65.42468	(93121503)
375050.00	4751850.00	49.49013	(93030520)	375100.00	4751850.00	49.94731	(93030520)
376400.00	4750490.00	23.04362	(93073104)	376450.00	4750490.00	22.13280	(93073104)
376500.00	4750490.00	21.14997	(93073104)	376400.00	4750540.00	23.17476	(93073104)
376500.00	4750540.00	21.41795	(93073104)	376550.00	4750540.00	20.79895	(93073104)
376400.00	4750590.00	23.60536	(93073104)	376450.00	4750590.00	22.76899	(93073104)
376500.00	4750590.00	22.03121	(93073104)	376450.00	4750640.00	23.53533	(93073104)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G30 ***
INCLUDING SOURCE(S): FUR3PRV ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.17656	(93062902)	375000.00	4751800.00	47.59199	(93030520)
377900.00	4754300.00	13.35827	(93121503)	377950.00	4751300.00	13.02030	(93032501)
371650.00	4748400.00	34.79612	(93112518)	357000.00	4743000.00	3.87864	(93012006)
376450.00	4750540.00	21.49019	(93073104)	364700.00	4746700.00	8.49765	(93012006)
364700.00	4758700.00	2.99480	(93112621)	366700.00	4742700.00	9.36937	(93120519)
366700.00	4758700.00	3.53693	(93082620)	370700.00	4747700.00	27.02219	(93092224)
370700.00	4748700.00	34.10650	(93021020)	370700.00	4749700.00	19.53130	(93012006)
370700.00	4750700.00	18.82056	(93012204)	370700.00	4751700.00	17.49640	(93042703)
370700.00	4752700.00	13.36808	(93082804)	370700.00	4754700.00	10.17653	(93082620)
371760.00	4750600.00	24.33452	(93110806)	372700.00	4746700.00	6.84345	(93072704)
372700.00	4747700.00	10.04535	(93011904)	372700.00	4748700.00	13.43230	(93073005)
372700.00	4749700.00	49.97425	(93122420)	372700.00	4751700.00	31.13229	(93052305)
372700.00	4752700.00	26.53298	(93112621)	372700.00	4753700.00	13.74282	(93030920)
372700.00	4754700.00	9.64433	(93092319)	373200.00	4749200.00	39.24560	(93070704)
373200.00	4750200.00	65.47298	(93122420)	373200.00	4751200.00	43.64331	(93121804)
373200.00	4752200.00	37.57081	(93082303)	373700.00	4748700.00	17.21845	(93091606)
373700.00	4749700.00	22.53515	(93081319)	373700.00	4751700.00	69.64828	(93092419)
374200.00	4749200.00	23.68408	(93091919)	374200.00	4752200.00	40.44230	(93111406)
374700.00	4748700.00	9.35585	(93091919)	374700.00	4749700.00	96.53463	(93122507)
374700.00	4751700.00	82.13084	(93093003)	374700.00	4752700.00	19.61896	(93082803)
374700.00	4753700.00	20.47139	(93072703)	374700.00	4754700.00	24.85176	(93090706)
375200.00	4749200.00	13.18756	(93082403)	375200.00	4752200.00	43.93431	(93042604)
375700.00	4749700.00	9.49948	(93103101)	375700.00	4751700.00	47.35759	(93110702)
376200.00	4749200.00	8.89403	(93091519)	376300.00	4752400.00	20.11672	(93081403)
376700.00	4749700.00	12.82489	(93082903)	376700.00	4750700.00	19.55350	(93073104)
376700.00	4751700.00	16.11493	(93082524)	376700.00	4752700.00	11.42664	(93122401)
376700.00	4753700.00	21.85303	(93042604)	376700.00	4754700.00	8.04079	(93110820)
376700.00	4758700.00	6.60904	(93102318)	377200.00	4752200.00	13.06287	(93092302)
378700.00	4747700.00	4.88419	(93082903)	378700.00	4748700.00	11.39214	(93100206)
378700.00	4749700.00	23.81669	(93022604)	378700.00	4750700.00	14.52931	(93030203)
378700.00	4751700.00	9.04308	(93121701)	378700.00	4752700.00	12.76087	(93092302)
378700.00	4753700.00	7.92797	(93081403)	378700.00	4754700.00	15.25579	(93121503)
379400.00	4753600.00	10.66102	(93072124)	380700.00	4746700.00	10.93481	(93020224)
380700.00	4748700.00	12.87964	(93010405)	380700.00	4750700.00	12.79455	(93122520)
380700.00	4752700.00	13.00437	(93021424)	380700.00	4754700.00	7.51749	(93081403)
380700.00	4756700.00	5.20842	(93030819)	380700.00	4758700.00	2.39737	(93102302)
380889.00	4747781.00	17.51414	(93072104)	382700.00	4748700.00	13.23991	(93112601)
382700.00	4750700.00	7.05264	(93122508)	382700.00	4752700.00	3.14982	(93110702)
382700.00	4754700.00	6.76782	(93062902)	382700.00	4756700.00	7.49396	(93030520)
382700.00	4758700.00	6.25322	(93093003)	382800.00	4746400.00	8.91893	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G30 ***
INCLUDING SOURCE(S): FUR3PRV ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	5.11840	(93092004)	360000.00	4750000.00	5.12717	(93092002)
364700.00	4750700.00	6.18880	(93102606)	364700.00	4754700.00	5.95458	(93082804)
366700.00	4756700.00	3.43518	(93082303)	370700.00	4758700.00	4.17357	(93092319)
368700.00	4752700.00	11.61399	(93112606)	372700.00	4756700.00	12.93273	(93090705)
368700.00	4744700.00	13.97868	(93112422)	368700.00	4748700.00	12.34275	(93012006)
376150.00	4752050.00	10.21967	(93050905)	376200.00	4752050.00	11.73236	(93050905)
376250.00	4752050.00	12.46259	(93050905)	376100.00	4752100.00	11.44324	(93062902)
376150.00	4752100.00	9.43808	(93062902)	376250.00	4752100.00	8.45428	(93050905)
376150.00	4752150.00	12.22426	(93062902)	376200.00	4752150.00	11.55313	(93062902)
376250.00	4752150.00	10.00594	(93062902)	374900.00	4751750.00	66.31743	(93030520)
374950.00	4751775.00	57.62897	(93030520)	375000.00	4751790.00	36.99482	(93030520)
375050.00	4751775.00	38.61486	(93122401)	375100.00	4751775.00	44.27124	(93081403)
375050.00	4751800.00	38.10626	(93112106)	375100.00	4751800.00	36.68117	(93122401)
374950.00	4751850.00	67.05542	(93121503)	375000.00	4751850.00	37.97357	(93030520)
375050.00	4751850.00	54.08689	(93030520)	375100.00	4751850.00	31.93665	(93112106)
376400.00	4750490.00	22.33224	(93073104)	376450.00	4750490.00	21.45678	(93073104)
376500.00	4750490.00	20.51095	(93073104)	376400.00	4750540.00	22.44038	(93073104)
376500.00	4750540.00	20.75491	(93073104)	376550.00	4750540.00	20.16265	(93073104)
376400.00	4750590.00	22.83813	(93073104)	376450.00	4750590.00	22.03815	(93073104)
376500.00	4750590.00	21.33291	(93073104)	376450.00	4750640.00	22.76181	(93073104)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G31 ***
INCLUDING SOURCE(S): FUR4PRV ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.16748	(93062902)	375000.00	4751800.00	46.77185	(93030520)
377900.00	4754300.00	13.42650	(93121503)	377950.00	4751300.00	13.04319	(93032501)
371650.00	4748400.00	34.86019	(93112518)	357000.00	4743000.00	3.87812	(93012006)
376450.00	4750540.00	21.46195	(93073104)	364700.00	4746700.00	8.49580	(93012006)
364700.00	4758700.00	3.00782	(93112621)	366700.00	4742700.00	9.38181	(93120519)
366700.00	4758700.00	3.52347	(93082620)	370700.00	4747700.00	27.13379	(93092224)
370700.00	4748700.00	34.09427	(93021020)	370700.00	4749700.00	19.54649	(93012006)
370700.00	4750700.00	18.81462	(93012204)	370700.00	4751700.00	17.52023	(93042703)
370700.00	4752700.00	13.28564	(93082804)	370700.00	4754700.00	10.26912	(93082620)
371760.00	4750600.00	24.34922	(93110806)	372700.00	4746700.00	6.84701	(93072704)
372700.00	4747700.00	10.05235	(93011904)	372700.00	4748700.00	13.44561	(93073005)
372700.00	4749700.00	50.24483	(93122420)	372700.00	4751700.00	30.88156	(93052305)
372700.00	4752700.00	26.37421	(93112621)	372700.00	4753700.00	13.66541	(93030920)
372700.00	4754700.00	9.58990	(93092319)	373200.00	4749200.00	39.22546	(93070704)
373200.00	4750200.00	65.78346	(93122420)	373200.00	4751200.00	43.47486	(93121804)
373200.00	4752200.00	37.60468	(93082303)	373700.00	4748700.00	17.23298	(93020605)
373700.00	4749700.00	22.27989	(93081319)	373700.00	4751700.00	68.96973	(93092419)
374200.00	4749200.00	23.70254	(93091919)	374200.00	4752200.00	36.78418	(93111406)
374700.00	4748700.00	9.35919	(93091919)	374700.00	4749700.00	95.48221	(93122507)
374700.00	4751700.00	82.74011	(93093003)	374700.00	4752700.00	19.29794	(93082803)
374700.00	4753700.00	20.69571	(93072703)	374700.00	4754700.00	24.88683	(93090706)
375200.00	4749200.00	13.18749	(93082403)	375200.00	4752200.00	43.84299	(93042604)
375700.00	4749700.00	9.49588	(93103101)	375700.00	4751700.00	47.22292	(93110702)
376200.00	4749200.00	8.88982	(93091519)	376300.00	4752400.00	20.17597	(93081403)
376700.00	4749700.00	12.81482	(93082903)	376700.00	4750700.00	19.52751	(93073104)
376700.00	4751700.00	16.05723	(93082524)	376700.00	4752700.00	11.42585	(93122401)
376700.00	4753700.00	21.92924	(93042604)	376700.00	4754700.00	8.02114	(93110820)
376700.00	4758700.00	6.61815	(93102318)	377200.00	4752200.00	13.07336	(93092302)
378700.00	4747700.00	4.88253	(93082903)	378700.00	4748700.00	11.28597	(93100206)
378700.00	4749700.00	23.85484	(93022604)	378700.00	4750700.00	14.52403	(93030203)
378700.00	4751700.00	9.00143	(93121701)	378700.00	4752700.00	12.75601	(93092302)
378700.00	4753700.00	7.94725	(93081403)	378700.00	4754700.00	15.21833	(93121503)
379400.00	4753600.00	10.65417	(93072124)	380700.00	4746700.00	10.96844	(93020224)
380700.00	4748700.00	12.87444	(93010405)	380700.00	4750700.00	12.74560	(93122520)
380700.00	4752700.00	12.98598	(93021424)	380700.00	4754700.00	7.52672	(93081403)
380700.00	4756700.00	5.20622	(93030819)	380700.00	4758700.00	2.39756	(93102302)
380889.00	4747781.00	17.50035	(93072104)	382700.00	4748700.00	13.22820	(93112601)
382700.00	4750700.00	7.05724	(93122508)	382700.00	4752700.00	3.14849	(93110702)
382700.00	4754700.00	6.76429	(93062902)	382700.00	4756700.00	7.47592	(93030520)
382700.00	4758700.00	6.24149	(93093003)	382800.00	4746400.00	8.89775	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G31 ***
INCLUDING SOURCE(S): FUR4PRV ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	5.11805	(93092004)	360000.00	4750000.00	5.13170	(93092002)
364700.00	4750700.00	6.19117	(93102606)	364700.00	4754700.00	5.95749	(93082804)
366700.00	4756700.00	3.44058	(93082303)	370700.00	4758700.00	4.16018	(93092319)
368700.00	4752700.00	11.61420	(93112606)	372700.00	4756700.00	12.84317	(93090705)
368700.00	4744700.00	13.99484	(93112422)	368700.00	4748700.00	12.34338	(93012006)
376150.00	4752050.00	10.20616	(93050905)	376200.00	4752050.00	11.71725	(93050905)
376250.00	4752050.00	12.44924	(93050905)	376100.00	4752100.00	11.42663	(93062902)
376150.00	4752100.00	9.42417	(93062902)	376250.00	4752100.00	8.44468	(93050905)
376150.00	4752150.00	12.21339	(93062902)	376200.00	4752150.00	11.53846	(93062902)
376250.00	4752150.00	9.99198	(93062902)	374900.00	4751750.00	65.86161	(93030520)
374950.00	4751775.00	56.87352	(93030520)	375000.00	4751790.00	36.13285	(93030520)
375050.00	4751775.00	38.56342	(93122401)	375100.00	4751775.00	44.54083	(93081403)
375050.00	4751800.00	37.91958	(93112106)	375100.00	4751800.00	36.59081	(93122401)
374950.00	4751850.00	66.84515	(93121503)	375000.00	4751850.00	38.75382	(93030520)
375050.00	4751850.00	53.78443	(93030520)	375100.00	4751850.00	32.11766	(93112106)
376400.00	4750490.00	22.30339	(93073104)	376450.00	4750490.00	21.42934	(93073104)
376500.00	4750490.00	20.48500	(93073104)	376400.00	4750540.00	22.41057	(93073104)
376500.00	4750540.00	20.72794	(93073104)	376550.00	4750540.00	20.13675	(93073104)
376400.00	4750590.00	22.80695	(93073104)	376450.00	4750590.00	22.00842	(93073104)
376500.00	4750590.00	21.30447	(93073104)	376450.00	4750640.00	22.73031	(93073104)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G32 ***
INCLUDING SOURCE(S): FUR1COF ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	2.95228	(93070107)	375000.00	4751800.00	6.09073	(93072820)
377900.00	4754300.00	3.87739	(93100523)	377950.00	4751300.00	3.23615	(93071203)
371650.00	4748400.00	10.06937	(93122820)	357000.00	4743000.00	1.51439	(93121903)
376450.00	4750540.00	18.42233	(93112602)	364700.00	4746700.00	3.30094	(93121903)
364700.00	4758700.00	1.05104	(93060504)	366700.00	4742700.00	3.33189	(93112518)
366700.00	4758700.00	1.04810	(93040522)	370700.00	4747700.00	12.82187	(93121317)
370700.00	4748700.00	13.26034	(93121901)	370700.00	4749700.00	3.16818	(93121323)
370700.00	4750700.00	2.90051	(93072402)	370700.00	4751700.00	2.60918	(93012421)
370700.00	4752700.00	2.94756	(93012403)	370700.00	4754700.00	1.91231	(93122208)
371760.00	4750600.00	3.91499	(93020604)	372700.00	4746700.00	7.19641	(93112607)
372700.00	4747700.00	16.00596	(93120604)	372700.00	4748700.00	9.44417	(93112607)
372700.00	4749700.00	9.16607	(93092424)	372700.00	4751700.00	4.10267	(93101419)
372700.00	4752700.00	3.65805	(93061423)	372700.00	4753700.00	3.47513	(93040605)
372700.00	4754700.00	1.83290	(93022021)	373200.00	4749200.00	6.06612	(93121023)
373200.00	4750200.00	8.43667	(93033019)	373200.00	4751200.00	4.51357	(93110205)
373200.00	4752200.00	4.94551	(93111021)	373700.00	4748700.00	21.23977	(93122517)
373700.00	4749700.00	22.57887	(93042802)	373700.00	4751700.00	7.67644	(93100503)
374200.00	4749200.00	23.21194	(93022603)	374200.00	4752200.00	5.75182	(93103019)
374700.00	4748700.00	11.99154	(93091919)	374700.00	4749700.00	28.45090	(93022519)
374700.00	4751700.00	11.10595	(93112303)	374700.00	4752700.00	3.19954	(93040604)
374700.00	4753700.00	2.55794	(93110307)	374700.00	4754700.00	4.57832	(93051701)
375200.00	4749200.00	16.63437	(93082403)	375200.00	4752200.00	4.00349	(93051915)
375700.00	4749700.00	13.14707	(93091519)	375700.00	4751700.00	33.99331	(93031806)
376200.00	4749200.00	11.62587	(93091519)	376300.00	4752400.00	4.11386	(93031023)
376700.00	4749700.00	15.86668	(93082903)	376700.00	4750700.00	12.77706	(93112622)
376700.00	4751700.00	2.69985	(93032717)	376700.00	4752700.00	2.63063	(93012909)
376700.00	4753700.00	3.31704	(93012706)	376700.00	4754700.00	3.09447	(93110820)
376700.00	4758700.00	1.97775	(93102318)	377200.00	4752200.00	3.19626	(93110501)
378700.00	4747700.00	5.95342	(93082903)	378700.00	4748700.00	13.56037	(93112704)
378700.00	4749700.00	9.29552	(93121102)	378700.00	4750700.00	3.03563	(93040424)
378700.00	4751700.00	2.63166	(93030505)	378700.00	4752700.00	4.02675	(93110501)
378700.00	4753700.00	3.36005	(93031023)	378700.00	4754700.00	3.55292	(93111518)
379400.00	4753600.00	3.39189	(93072124)	380700.00	4746700.00	2.88537	(93020204)
380700.00	4748700.00	2.95993	(93121324)	380700.00	4750700.00	3.20001	(93021418)
380700.00	4752700.00	3.05344	(93021607)	380700.00	4754700.00	2.78799	(93031023)
380700.00	4756700.00	2.63246	(93030819)	380700.00	4758700.00	1.01204	(93032722)
380889.00	4747781.00	6.03260	(93112721)	382700.00	4748700.00	4.08502	(93112601)
382700.00	4750700.00	9.11435	(93102304)	382700.00	4752700.00	9.20401	(93110702)
382700.00	4754700.00	4.74126	(93062902)	382700.00	4756700.00	5.28764	(93030520)
382700.00	4758700.00	2.40857	(93093003)	382800.00	4746400.00	2.50060	(93121106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G32 ***
INCLUDING SOURCE(S): FUR1COF ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	2.30716	(93123007)	360000.00	4750000.00	2.11053	(93092002)
364700.00	4750700.00	1.69639	(93120717)	364700.00	4754700.00	1.72122	(93112504)
366700.00	4756700.00	1.48164	(93060206)	370700.00	4758700.00	1.26782	(93022101)
368700.00	4752700.00	2.06867	(93092703)	372700.00	4756700.00	2.80420	(93103019)
368700.00	4744700.00	6.34218	(93112422)	368700.00	4748700.00	2.57623	(93121323)
376150.00	4752050.00	3.02264	(93070107)	376200.00	4752050.00	3.23570	(93052223)
376250.00	4752050.00	3.43652	(93052223)	376100.00	4752100.00	2.97673	(93070107)
376150.00	4752100.00	2.98146	(93070107)	376250.00	4752100.00	2.89450	(93070107)
376150.00	4752150.00	2.81858	(93060106)	376200.00	4752150.00	2.80074	(93070107)
376250.00	4752150.00	2.81662	(93070107)	374900.00	4751750.00	6.93284	(93012521)
374950.00	4751775.00	6.16346	(93120413)	375000.00	4751790.00	6.46897	(93072820)
375050.00	4751775.00	5.36518	(93071007)	375100.00	4751775.00	6.69748	(93060421)
375050.00	4751800.00	5.27942	(93010118)	375100.00	4751800.00	5.27735	(93060421)
374950.00	4751850.00	6.61332	(93100523)	375000.00	4751850.00	6.20243	(93111518)
375050.00	4751850.00	5.10421	(93120413)	375100.00	4751850.00	5.75379	(93072820)
376400.00	4750490.00	13.97434	(93112704)	376450.00	4750490.00	15.35465	(93112602)
376500.00	4750490.00	19.16833	(93112602)	376400.00	4750540.00	15.52936	(93112704)
376500.00	4750540.00	19.37478	(93112602)	376550.00	4750540.00	18.90599	(93112602)
376400.00	4750590.00	14.79217	(93112704)	376450.00	4750590.00	15.28086	(93112704)
376500.00	4750590.00	15.31436	(93112602)	376450.00	4750640.00	15.29474	(93111106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G33 ***
INCLUDING SOURCE(S): FUR2COF ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	2.88321	(93070107)	375000.00	4751800.00	5.93082	(93072820)
377900.00	4754300.00	3.75922	(93100523)	377950.00	4751300.00	3.33001	(93013101)
371650.00	4748400.00	9.92556	(93111407)	357000.00	4743000.00	1.52014	(93121903)
376450.00	4750540.00	18.03619	(93112602)	364700.00	4746700.00	3.31801	(93121903)
364700.00	4758700.00	1.05631	(93060504)	366700.00	4742700.00	3.24877	(93112518)
366700.00	4758700.00	1.06890	(93040522)	370700.00	4747700.00	13.03769	(93121317)
370700.00	4748700.00	13.34912	(93121901)	370700.00	4749700.00	3.20295	(93121323)
370700.00	4750700.00	2.93994	(93110205)	370700.00	4751700.00	2.46397	(93012421)
370700.00	4752700.00	2.87148	(93012403)	370700.00	4754700.00	2.06794	(93031404)
371760.00	4750600.00	3.93682	(93020604)	372700.00	4746700.00	7.26625	(93112607)
372700.00	4747700.00	15.71905	(93120604)	372700.00	4748700.00	9.57681	(93112607)
372700.00	4749700.00	10.00324	(93032822)	372700.00	4751700.00	4.49970	(93101419)
372700.00	4752700.00	3.70340	(93021423)	372700.00	4753700.00	3.43663	(93040605)
372700.00	4754700.00	1.91323	(93020710)	373200.00	4749200.00	6.50182	(93102206)
373200.00	4750200.00	10.66695	(93032822)	373200.00	4751200.00	4.40697	(93110205)
373200.00	4752200.00	5.48710	(93101902)	373700.00	4748700.00	21.17828	(93100820)
373700.00	4749700.00	22.95011	(93121401)	373700.00	4751700.00	7.89060	(93101602)
374200.00	4749200.00	20.17537	(93022603)	374200.00	4752200.00	4.47717	(93021711)
374700.00	4748700.00	12.07140	(93091919)	374700.00	4749700.00	31.24041	(93120723)
374700.00	4751700.00	9.59720	(93020921)	374700.00	4752700.00	3.29651	(93041618)
374700.00	4753700.00	2.55407	(93110307)	374700.00	4754700.00	4.71106	(93051701)
375200.00	4749200.00	16.62512	(93082403)	375200.00	4752200.00	3.86746	(93010304)
375700.00	4749700.00	12.99114	(93091519)	375700.00	4751700.00	35.24409	(93031806)
376200.00	4749200.00	11.50873	(93091519)	376300.00	4752400.00	4.02446	(93031023)
376700.00	4749700.00	15.60720	(93082903)	376700.00	4750700.00	12.46667	(93112622)
376700.00	4751700.00	2.58807	(93032717)	376700.00	4752700.00	2.71484	(93060421)
376700.00	4753700.00	3.33251	(93012706)	376700.00	4754700.00	3.22861	(93110820)
376700.00	4758700.00	2.14979	(93102318)	377200.00	4752200.00	3.23064	(93110501)
378700.00	4747700.00	5.91050	(93082903)	378700.00	4748700.00	13.77890	(93112605)
378700.00	4749700.00	9.86442	(93013024)	378700.00	4750700.00	3.14275	(93122705)
378700.00	4751700.00	2.63945	(93030505)	378700.00	4752700.00	4.00682	(93110501)
378700.00	4753700.00	3.36583	(93031023)	378700.00	4754700.00	3.42946	(93110505)
379400.00	4753600.00	3.36900	(93072124)	380700.00	4746700.00	2.82192	(93020204)
380700.00	4748700.00	3.06461	(93121324)	380700.00	4750700.00	3.03848	(93021418)
380700.00	4752700.00	2.99227	(93021607)	380700.00	4754700.00	2.75095	(93031023)
380700.00	4756700.00	2.64230	(93030819)	380700.00	4758700.00	1.04785	(93032722)
380889.00	4747781.00	6.21302	(93112721)	382700.00	4748700.00	4.11804	(93112601)
382700.00	4750700.00	9.00823	(93102304)	382700.00	4752700.00	9.19133	(93110702)
382700.00	4754700.00	4.66393	(93062902)	382700.00	4756700.00	5.02032	(93030520)
382700.00	4758700.00	2.33355	(93093003)	382800.00	4746400.00	2.45895	(93121106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G33 ***
INCLUDING SOURCE(S): FUR2COF ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	2.31213	(93123007)	360000.00	4750000.00	2.14183	(93092002)
364700.00	4750700.00	1.70547	(93120717)	364700.00	4754700.00	1.74115	(93112504)
366700.00	4756700.00	1.46814	(93060206)	370700.00	4758700.00	1.31926	(93022101)
368700.00	4752700.00	2.11264	(93122922)	372700.00	4756700.00	2.79394	(93103019)
368700.00	4744700.00	6.58505	(93112422)	368700.00	4748700.00	2.56182	(93121323)
376150.00	4752050.00	3.00368	(93052223)	376200.00	4752050.00	3.25131	(93052223)
376250.00	4752050.00	3.44217	(93052223)	376100.00	4752100.00	2.91939	(93070107)
376150.00	4752100.00	2.91663	(93070107)	376250.00	4752100.00	2.82398	(93070107)
376150.00	4752150.00	2.74011	(93060106)	376200.00	4752150.00	2.75016	(93070107)
376250.00	4752150.00	2.75908	(93070107)	374900.00	4751750.00	6.39738	(93072820)
374950.00	4751775.00	6.44481	(93072820)	375000.00	4751790.00	5.29503	(93042204)
375050.00	4751775.00	6.20140	(93060421)	375100.00	4751775.00	6.14319	(93031023)
375050.00	4751800.00	5.19238	(93012909)	375100.00	4751800.00	6.18420	(93060421)
374950.00	4751850.00	5.86087	(93100523)	375000.00	4751850.00	5.08220	(93060407)
375050.00	4751850.00	5.71809	(93072820)	375100.00	4751850.00	5.43452	(93012909)
376400.00	4750490.00	13.65519	(93112704)	376450.00	4750490.00	15.09219	(93112602)
376500.00	4750490.00	18.75035	(93112602)	376400.00	4750540.00	15.13582	(93112704)
376500.00	4750540.00	18.94210	(93112602)	376550.00	4750540.00	18.40993	(93112601)
376400.00	4750590.00	14.42626	(93112704)	376450.00	4750590.00	14.73441	(93020404)
376500.00	4750590.00	14.95595	(93112601)	376450.00	4750640.00	18.49677	(93111106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G34 ***
INCLUDING SOURCE(S): FUR3COF ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	2.88282	(93070107)	375000.00	4751800.00	5.91447	(93072820)
377900.00	4754300.00	3.75733	(93100523)	377950.00	4751300.00	3.33001	(93013101)
371650.00	4748400.00	9.93240	(93111407)	357000.00	4743000.00	1.52024	(93121903)
376450.00	4750540.00	18.03281	(93112602)	364700.00	4746700.00	3.31825	(93121903)
364700.00	4758700.00	1.05634	(93060504)	366700.00	4742700.00	3.24771	(93112518)
366700.00	4758700.00	1.06901	(93040522)	370700.00	4747700.00	13.03751	(93121317)
370700.00	4748700.00	13.34768	(93121901)	370700.00	4749700.00	3.20376	(93121323)
370700.00	4750700.00	2.93920	(93110205)	370700.00	4751700.00	2.46371	(93012421)
370700.00	4752700.00	2.87075	(93012403)	370700.00	4754700.00	2.06841	(93031404)
371760.00	4750600.00	3.93740	(93020604)	372700.00	4746700.00	7.26653	(93112607)
372700.00	4747700.00	15.70768	(93120604)	372700.00	4748700.00	9.57747	(93112607)
372700.00	4749700.00	10.02299	(93032822)	372700.00	4751700.00	4.49971	(93101419)
372700.00	4752700.00	3.69918	(93021423)	372700.00	4753700.00	3.43549	(93040605)
372700.00	4754700.00	1.91415	(93020710)	373200.00	4749200.00	6.50960	(93102206)
373200.00	4750200.00	10.69347	(93032822)	373200.00	4751200.00	4.40966	(93110205)
373200.00	4752200.00	5.50271	(93101902)	373700.00	4748700.00	21.19914	(93100820)
373700.00	4749700.00	23.04312	(93121401)	373700.00	4751700.00	7.90276	(93101602)
374200.00	4749200.00	20.10880	(93022603)	374200.00	4752200.00	4.46511	(93021711)
374700.00	4748700.00	12.07111	(93091919)	374700.00	4749700.00	31.32292	(93120723)
374700.00	4751700.00	9.57604	(93020921)	374700.00	4752700.00	3.29518	(93041618)
374700.00	4753700.00	2.55282	(93110307)	374700.00	4754700.00	4.70729	(93051701)
375200.00	4749200.00	16.62369	(93082403)	375200.00	4752200.00	3.86595	(93010304)
375700.00	4749700.00	12.98898	(93091519)	375700.00	4751700.00	35.19561	(93031806)
376200.00	4749200.00	11.50720	(93091519)	376300.00	4752400.00	4.02237	(93031023)
376700.00	4749700.00	15.60459	(93082903)	376700.00	4750700.00	12.46408	(93112622)
376700.00	4751700.00	2.58795	(93032717)	376700.00	4752700.00	2.71630	(93060421)
376700.00	4753700.00	3.33222	(93012706)	376700.00	4754700.00	3.22874	(93110820)
376700.00	4758700.00	2.15089	(93102318)	377200.00	4752200.00	3.22805	(93110501)
378700.00	4747700.00	5.91004	(93082903)	378700.00	4748700.00	13.77868	(93112605)
378700.00	4749700.00	9.86717	(93013024)	378700.00	4750700.00	3.14284	(93122705)
378700.00	4751700.00	2.63940	(93030505)	378700.00	4752700.00	4.00625	(93110501)
378700.00	4753700.00	3.36603	(93031023)	378700.00	4754700.00	3.42762	(93110505)
379400.00	4753600.00	3.36839	(93072124)	380700.00	4746700.00	2.82124	(93020204)
380700.00	4748700.00	3.06477	(93121324)	380700.00	4750700.00	3.03805	(93021418)
380700.00	4752700.00	2.99270	(93021607)	380700.00	4754700.00	2.75028	(93031023)
380700.00	4756700.00	2.64234	(93030819)	380700.00	4758700.00	1.04825	(93032722)
380889.00	4747781.00	6.21317	(93112721)	382700.00	4748700.00	4.11799	(93112601)
382700.00	4750700.00	9.00776	(93102304)	382700.00	4752700.00	9.19088	(93110702)
382700.00	4754700.00	4.66134	(93062902)	382700.00	4756700.00	5.01631	(93030520)
382700.00	4758700.00	2.33258	(93093003)	382800.00	4746400.00	2.45857	(93121106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G34 ***
INCLUDING SOURCE(S): FUR3COF ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	2.31217	(93123007)	360000.00	4750000.00	2.14177	(93092002)
364700.00	4750700.00	1.70550	(93120717)	364700.00	4754700.00	1.74122	(93112504)
366700.00	4756700.00	1.46807	(93060206)	370700.00	4758700.00	1.31956	(93022101)
368700.00	4752700.00	2.11273	(93122922)	372700.00	4756700.00	2.79270	(93103019)
368700.00	4744700.00	6.58707	(93112422)	368700.00	4748700.00	2.56130	(93121323)
376150.00	4752050.00	3.00590	(93052223)	376200.00	4752050.00	3.25309	(93052223)
376250.00	4752050.00	3.44348	(93052223)	376100.00	4752100.00	2.91951	(93070107)
376150.00	4752100.00	2.91648	(93070107)	376250.00	4752100.00	2.82340	(93070107)
376150.00	4752150.00	2.73825	(93060106)	376200.00	4752150.00	2.75035	(93070107)
376250.00	4752150.00	2.75904	(93070107)	374900.00	4751750.00	6.41782	(93072820)
374950.00	4751775.00	6.44304	(93072820)	375000.00	4751790.00	5.29218	(93042204)
375050.00	4751775.00	6.21830	(93060421)	375100.00	4751775.00	6.14185	(93031023)
375050.00	4751800.00	5.19253	(93012909)	375100.00	4751800.00	6.19513	(93060421)
374950.00	4751850.00	5.82846	(93100523)	375000.00	4751850.00	5.07845	(93060407)
375050.00	4751850.00	5.72765	(93072820)	375100.00	4751850.00	5.43656	(93012909)
376400.00	4750490.00	13.65236	(93112704)	376450.00	4750490.00	15.08985	(93112602)
376500.00	4750490.00	18.74667	(93112602)	376400.00	4750540.00	15.13238	(93112704)
376500.00	4750540.00	18.93833	(93112602)	376550.00	4750540.00	18.40633	(93112601)
376400.00	4750590.00	14.42308	(93112704)	376450.00	4750590.00	14.73127	(93122608)
376500.00	4750590.00	14.95361	(93112601)	376450.00	4750640.00	18.50010	(93111106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G35 ***
INCLUDING SOURCE(S): FUR4COF ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	2.81631	(93070107)	375000.00	4751800.00	5.26642	(93012909)
377900.00	4754300.00	3.54299	(93100523)	377950.00	4751300.00	3.45283	(93013101)
371650.00	4748400.00	10.35603	(93111407)	357000.00	4743000.00	1.52656	(93121903)
376450.00	4750540.00	17.56007	(93112601)	364700.00	4746700.00	3.33475	(93121903)
364700.00	4758700.00	1.05637	(93060504)	366700.00	4742700.00	3.20691	(93120519)
366700.00	4758700.00	1.08200	(93040522)	370700.00	4747700.00	12.85903	(93121317)
370700.00	4748700.00	13.71587	(93112424)	370700.00	4749700.00	3.23746	(93121323)
370700.00	4750700.00	3.02194	(93072402)	370700.00	4751700.00	2.56610	(93102521)
370700.00	4752700.00	2.57626	(93012403)	370700.00	4754700.00	2.03262	(93031404)
371760.00	4750600.00	3.96600	(93020604)	372700.00	4746700.00	7.33323	(93112607)
372700.00	4747700.00	15.73774	(93112706)	372700.00	4748700.00	9.70731	(93112607)
372700.00	4749700.00	11.37673	(93032822)	372700.00	4751700.00	4.66207	(93050823)
372700.00	4752700.00	3.93261	(93040504)	372700.00	4753700.00	3.10036	(93040605)
372700.00	4754700.00	2.02287	(93020710)	373200.00	4749200.00	7.37548	(93120702)
373200.00	4750200.00	12.01656	(93032822)	373200.00	4751200.00	4.19170	(93110205)
373200.00	4752200.00	6.04470	(93101902)	373700.00	4748700.00	20.46662	(93100820)
373700.00	4749700.00	27.99384	(93121401)	373700.00	4751700.00	7.74377	(93122623)
374200.00	4749200.00	22.96000	(93011502)	374200.00	4752200.00	4.78116	(93112214)
374700.00	4748700.00	12.13100	(93091919)	374700.00	4749700.00	32.44477	(93010807)
374700.00	4751700.00	9.01687	(93070204)	374700.00	4752700.00	3.61519	(93122005)
374700.00	4753700.00	2.37883	(93040604)	374700.00	4754700.00	4.00305	(93080920)
375200.00	4749200.00	16.57949	(93082403)	375200.00	4752200.00	5.14424	(93050921)
375700.00	4749700.00	12.80878	(93091519)	375700.00	4751700.00	35.13599	(93031806)
376200.00	4749200.00	11.37555	(93091519)	376300.00	4752400.00	3.83695	(93031023)
376700.00	4749700.00	15.33317	(93072905)	376700.00	4750700.00	12.15627	(93112622)
376700.00	4751700.00	2.48844	(93032717)	376700.00	4752700.00	2.76882	(93060421)
376700.00	4753700.00	3.27762	(93050921)	376700.00	4754700.00	3.10258	(93110820)
376700.00	4758700.00	2.23278	(93102318)	377200.00	4752200.00	3.21578	(93110501)
378700.00	4747700.00	5.86457	(93082903)	378700.00	4748700.00	13.26243	(93112605)
378700.00	4749700.00	10.25128	(93013024)	378700.00	4750700.00	3.14519	(93122705)
378700.00	4751700.00	2.61910	(93030505)	378700.00	4752700.00	3.97947	(93110501)
378700.00	4753700.00	3.35690	(93031023)	378700.00	4754700.00	3.24831	(93110505)
379400.00	4753600.00	3.33385	(93072124)	380700.00	4746700.00	2.76463	(93112919)
380700.00	4748700.00	3.05681	(93121324)	380700.00	4750700.00	3.06286	(93102405)
380700.00	4752700.00	2.94378	(93021607)	380700.00	4754700.00	2.70122	(93031023)
380700.00	4756700.00	2.62895	(93030819)	380700.00	4758700.00	1.08410	(93032722)
380889.00	4747781.00	6.14952	(93112721)	382700.00	4748700.00	4.07440	(93112601)
382700.00	4750700.00	8.83573	(93102304)	382700.00	4752700.00	9.16085	(93110702)
382700.00	4754700.00	4.55269	(93062902)	382700.00	4756700.00	4.71833	(93030520)
382700.00	4758700.00	2.24088	(93093003)	382800.00	4746400.00	2.39949	(93122702)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G35 ***
INCLUDING SOURCE(S): FUR4COF ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	2.31679	(93123007)	360000.00	4750000.00	2.16726	(93092002)
364700.00	4750700.00	1.71236	(93120717)	364700.00	4754700.00	1.74952	(93112504)
366700.00	4756700.00	1.44447	(93060206)	370700.00	4758700.00	1.35252	(93022101)
368700.00	4752700.00	2.10945	(93122922)	372700.00	4756700.00	2.45759	(93103019)
368700.00	4744700.00	6.74525	(93112422)	368700.00	4748700.00	2.54417	(93101622)
376150.00	4752050.00	3.06079	(93052223)	376200.00	4752050.00	3.29073	(93052223)
376250.00	4752050.00	3.46547	(93052223)	376100.00	4752100.00	2.86867	(93070107)
376150.00	4752100.00	2.85623	(93070107)	376250.00	4752100.00	2.86690	(93052223)
376150.00	4752150.00	2.67930	(93070107)	376200.00	4752150.00	2.70706	(93070107)
376250.00	4752150.00	2.70709	(93070107)	374900.00	4751750.00	5.91930	(93072820)
374950.00	4751775.00	5.26476	(93042204)	375000.00	4751790.00	5.23695	(93012909)
375050.00	4751775.00	6.42729	(93060421)	375100.00	4751775.00	5.51747	(93031023)
375050.00	4751800.00	5.22308	(93012909)	375100.00	4751800.00	6.14754	(93060421)
374950.00	4751850.00	5.61428	(93111518)	375000.00	4751850.00	4.87118	(93120413)
375050.00	4751850.00	5.36180	(93012909)	375100.00	4751850.00	5.54200	(93012909)
376400.00	4750490.00	13.33055	(93112704)	376450.00	4750490.00	14.82173	(93112602)
376500.00	4750490.00	18.32544	(93112602)	376400.00	4750540.00	14.73838	(93112704)
376500.00	4750540.00	18.42673	(93112601)	376550.00	4750540.00	17.98852	(93112601)
376400.00	4750590.00	13.93560	(93112622)	376450.00	4750590.00	14.38406	(93112622)
376500.00	4750590.00	14.67958	(93112601)	376450.00	4750640.00	17.33381	(93111106)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G36 ***
INCLUDING SOURCE(S): SECFLARE,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	4.49949	(93042113)	375000.00	4751800.00	6.16959	(93051207)
377900.00	4754300.00	2.96649	(93030521)	377950.00	4751300.00	7.26879	(93032501)
371650.00	4748400.00	13.27995	(93122820)	357000.00	4743000.00	2.79005	(93012006)
376450.00	4750540.00	26.71485	(93011419)	364700.00	4746700.00	6.31094	(93012006)
364700.00	4758700.00	1.79194	(93101605)	366700.00	4742700.00	4.99585	(93112518)
366700.00	4758700.00	1.88525	(93082520)	370700.00	4747700.00	14.93644	(93121317)
370700.00	4748700.00	19.55128	(93123005)	370700.00	4749700.00	8.11306	(93123007)
370700.00	4750700.00	7.41198	(93020107)	370700.00	4751700.00	6.49720	(93122408)
370700.00	4752700.00	6.31712	(93031124)	370700.00	4754700.00	4.39472	(93082602)
371760.00	4750600.00	9.15564	(93122405)	372700.00	4746700.00	7.75057	(93072704)
372700.00	4747700.00	20.76241	(93100901)	372700.00	4748700.00	14.56715	(93120519)
372700.00	4749700.00	8.35484	(93092424)	372700.00	4751700.00	11.33332	(93111401)
372700.00	4752700.00	8.81082	(93062903)	372700.00	4753700.00	3.31575	(93040605)
372700.00	4754700.00	2.08280	(93022021)	373200.00	4749200.00	7.76273	(93021022)
373200.00	4750200.00	5.19067	(93013016)	373200.00	4751200.00	13.66741	(93122908)
373200.00	4752200.00	12.86277	(93101606)	373700.00	4748700.00	19.05003	(93121417)
373700.00	4749700.00	41.44341	(93120604)	373700.00	4751700.00	20.96120	(93102924)
374200.00	4749200.00	18.21942	(93112502)	374200.00	4752200.00	5.81933	(93081119)
374700.00	4748700.00	11.41402	(93091919)	374700.00	4749700.00	40.92028	(93010407)
374700.00	4751700.00	10.23530	(93042115)	374700.00	4752700.00	4.06191	(93040619)
374700.00	4753700.00	2.95483	(93020720)	374700.00	4754700.00	3.69369	(93051701)
375200.00	4749200.00	16.13130	(93082403)	375200.00	4752200.00	5.51267	(93071122)
375700.00	4749700.00	12.39770	(93091519)	375700.00	4751700.00	53.30263	(93030403)
376200.00	4749200.00	11.23777	(93091519)	376300.00	4752400.00	11.24601	(93122401)
376700.00	4749700.00	15.77019	(93082903)	376700.00	4750700.00	23.81141	(93010405)
376700.00	4751700.00	6.95395	(93122106)	376700.00	4752700.00	7.23030	(93112106)
376700.00	4753700.00	4.05414	(93012706)	376700.00	4754700.00	3.70636	(93092223)
376700.00	4758700.00	2.64662	(93122005)	377200.00	4752200.00	8.68782	(93111918)
378700.00	4747700.00	5.83436	(93082903)	378700.00	4748700.00	26.34098	(93112602)
378700.00	4749700.00	19.14395	(93010405)	378700.00	4750700.00	7.06833	(93112622)
378700.00	4751700.00	6.00396	(93111118)	378700.00	4752700.00	8.49134	(93092302)
378700.00	4753700.00	6.99729	(93122401)	378700.00	4754700.00	3.04537	(93111518)
379400.00	4753600.00	7.93549	(93072124)	380700.00	4746700.00	6.31620	(93121801)
380700.00	4748700.00	6.24909	(93032506)	380700.00	4750700.00	7.13765	(93122520)
380700.00	4752700.00	7.13726	(93030403)	380700.00	4754700.00	4.69062	(93031023)
380700.00	4756700.00	2.35816	(93030819)	380700.00	4758700.00	1.01233	(93112819)
380889.00	4747781.00	11.97560	(93072905)	382700.00	4748700.00	9.35046	(93112601)
382700.00	4750700.00	15.49546	(93102304)	382700.00	4752700.00	15.49634	(93110702)
382700.00	4754700.00	7.51779	(93062902)	382700.00	4756700.00	8.71774	(93030520)
382700.00	4758700.00	2.72046	(93093003)	382800.00	4746400.00	5.57630	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G36 ***
INCLUDING SOURCE(S): SECFLARE,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	3.92703	(93123007)	360000.00	4750000.00	3.88983	(93092002)
364700.00	4750700.00	3.92705	(93102606)	364700.00	4754700.00	3.34039	(93082804)
366700.00	4756700.00	1.95299	(93101605)	370700.00	4758700.00	1.51350	(93111403)
368700.00	4752700.00	4.97606	(93112604)	372700.00	4756700.00	3.45142	(93020222)
368700.00	4744700.00	9.40246	(93120519)	368700.00	4748700.00	5.94939	(93021404)
376150.00	4752050.00	4.89396	(93042113)	376200.00	4752050.00	4.88392	(93042113)
376250.00	4752050.00	4.82406	(93042113)	376100.00	4752100.00	4.34911	(93072124)
376150.00	4752100.00	4.37735	(93042113)	376250.00	4752100.00	4.56691	(93042113)
376150.00	4752150.00	5.33886	(93100423)	376200.00	4752150.00	4.40578	(93100423)
376250.00	4752150.00	4.13898	(93062902)	374900.00	4751750.00	5.26226	(93032305)
374950.00	4751775.00	5.65806	(93051207)	375000.00	4751790.00	6.98184	(93060104)
375050.00	4751775.00	23.45125	(93072820)	375100.00	4751775.00	21.03932	(93112106)
375050.00	4751800.00	15.25710	(93072820)	375100.00	4751800.00	21.35696	(93072820)
374950.00	4751850.00	7.04994	(93010304)	375000.00	4751850.00	6.13704	(93030116)
375050.00	4751850.00	5.84409	(93030116)	375100.00	4751850.00	8.58514	(93072820)
376400.00	4750490.00	27.16162	(93010405)	376450.00	4750490.00	26.34688	(93111106)
376500.00	4750490.00	25.52953	(93073104)	376400.00	4750540.00	27.55699	(93020405)
376500.00	4750540.00	25.87187	(93073104)	376550.00	4750540.00	25.10497	(93073104)
376400.00	4750590.00	27.94262	(93010405)	376450.00	4750590.00	27.07329	(93020405)
376500.00	4750590.00	26.24435	(93010405)	376450.00	4750640.00	26.26395	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G37 ***
INCLUDING SOURCE(S): COFLARE ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	6.75772	(93081520)	375000.00	4751800.00	25.01319	(93070322)
377900.00	4754300.00	14.31414	(93070204)	377950.00	4751300.00	7.09623	(93121704)
371650.00	4748400.00	13.07553	(93121317)	357000.00	4743000.00	4.60568	(93021404)
376450.00	4750540.00	39.15320	(93073002)	364700.00	4746700.00	9.48008	(93021404)
364700.00	4758700.00	2.33010	(93122624)	366700.00	4742700.00	8.82073	(93120522)
366700.00	4758700.00	2.96808	(93082520)	370700.00	4747700.00	13.64943	(93112507)
370700.00	4748700.00	13.79771	(93123005)	370700.00	4749700.00	9.24241	(93123002)
370700.00	4750700.00	6.80135	(93121804)	370700.00	4751700.00	7.43311	(93121717)
370700.00	4752700.00	7.57050	(93112504)	370700.00	4754700.00	5.92843	(93083020)
371760.00	4750600.00	7.04728	(93020203)	372700.00	4746700.00	10.16309	(93071321)
372700.00	4747700.00	15.03944	(93011422)	372700.00	4748700.00	19.30138	(93071321)
372700.00	4749700.00	14.44137	(93112506)	372700.00	4751700.00	6.60175	(93092404)
372700.00	4752700.00	6.57346	(93020502)	372700.00	4753700.00	5.17242	(93082521)
372700.00	4754700.00	3.52802	(93111403)	373200.00	4749200.00	14.11495	(93112617)
373200.00	4750200.00	11.89804	(93011908)	373200.00	4751200.00	6.62660	(93032621)
373200.00	4752200.00	8.43581	(93103009)	373700.00	4748700.00	25.95425	(93062523)
373700.00	4749700.00	34.46669	(93112607)	373700.00	4751700.00	10.75493	(93041607)
374200.00	4749200.00	36.20925	(93071804)	374200.00	4752200.00	9.83107	(93052617)
374700.00	4748700.00	14.51764	(93091919)	374700.00	4749700.00	31.49088	(93112703)
374700.00	4751700.00	17.13290	(93090218)	374700.00	4752700.00	6.56990	(93092819)
374700.00	4753700.00	4.92556	(93011405)	374700.00	4754700.00	8.57734	(93060422)
375200.00	4749200.00	21.55991	(93091919)	375200.00	4752200.00	15.81954	(93081420)
375700.00	4749700.00	15.67035	(93072722)	375700.00	4751700.00	96.26653	(93031806)
376200.00	4749200.00	14.86418	(93072722)	376300.00	4752400.00	12.22950	(93012701)
376700.00	4749700.00	22.09113	(93090519)	376700.00	4750700.00	35.17673	(93071002)
376700.00	4751700.00	4.71367	(93101203)	376700.00	4752700.00	8.68471	(93012701)
376700.00	4753700.00	13.19669	(93102302)	376700.00	4754700.00	11.88098	(93013120)
376700.00	4758700.00	8.68352	(93122005)	377200.00	4752200.00	6.73127	(93020506)
378700.00	4747700.00	7.80999	(93090519)	378700.00	4748700.00	16.27274	(93100206)
378700.00	4749700.00	38.12526	(93020404)	378700.00	4750700.00	32.58498	(93030203)
378700.00	4751700.00	6.06206	(93111002)	378700.00	4752700.00	10.54103	(93020506)
378700.00	4753700.00	11.60892	(93112106)	378700.00	4754700.00	13.50550	(93030819)
379400.00	4753600.00	14.87458	(93100902)	380700.00	4746700.00	20.18455	(93121801)
380700.00	4748700.00	23.93288	(93032506)	380700.00	4750700.00	25.91577	(93021501)
380700.00	4752700.00	9.32042	(93030403)	380700.00	4754700.00	11.17842	(93122401)
380700.00	4756700.00	9.57443	(93093003)	380700.00	4758700.00	2.46422	(93050901)
380889.00	4747781.00	24.73313	(93012106)	382700.00	4748700.00	22.26269	(93112601)
382700.00	4750700.00	10.87948	(93102024)	382700.00	4752700.00	10.29735	(93110702)
382700.00	4754700.00	9.87640	(93062902)	382700.00	4756700.00	11.71790	(93030520)
382700.00	4758700.00	9.60555	(93093003)	382800.00	4746400.00	16.93661	(93122308)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G37 ***
INCLUDING SOURCE(S): COFLARE ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	6.46652	(93092004)	360000.00	4750000.00	7.02300	(93092002)
364700.00	4750700.00	5.84490	(93102606)	364700.00	4754700.00	5.33528	(93031204)
366700.00	4756700.00	2.84870	(93020502)	370700.00	4758700.00	3.39902	(93111403)
368700.00	4752700.00	6.64222	(93112606)	372700.00	4756700.00	7.94329	(93041520)
368700.00	4744700.00	10.98936	(93112518)	368700.00	4748700.00	8.32580	(93123007)
376150.00	4752050.00	6.88288	(93012606)	376200.00	4752050.00	6.78442	(93060804)
376250.00	4752050.00	6.53578	(93031108)	376100.00	4752100.00	7.12682	(93063021)
376150.00	4752100.00	6.92116	(93081520)	376250.00	4752100.00	6.57502	(93110510)
376150.00	4752150.00	6.81728	(93063021)	376200.00	4752150.00	6.79359	(93063021)
376250.00	4752150.00	6.65713	(93081520)	374900.00	4751750.00	28.92353	(93042114)
374950.00	4751775.00	26.60597	(93042115)	375000.00	4751790.00	25.05657	(93111724)
375050.00	4751775.00	24.66335	(93051022)	375100.00	4751775.00	23.56553	(93080521)
375050.00	4751800.00	24.10548	(93071122)	375100.00	4751800.00	23.05266	(93061305)
374950.00	4751850.00	24.37619	(93070607)	375000.00	4751850.00	23.38892	(93032801)
375050.00	4751850.00	22.66769	(93041120)	375100.00	4751850.00	22.04500	(93051021)
376400.00	4750490.00	40.78198	(93073002)	376450.00	4750490.00	38.98003	(93073002)
376500.00	4750490.00	37.11613	(93073002)	376400.00	4750540.00	41.10775	(93073002)
376500.00	4750540.00	37.64130	(93073002)	376550.00	4750540.00	36.43670	(93071002)
376400.00	4750590.00	41.96457	(93071002)	376450.00	4750590.00	40.27330	(93071002)
376500.00	4750590.00	38.77792	(93071002)	376450.00	4750640.00	41.72728	(93071002)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G38 ***
INCLUDING SOURCE(S): PHOSACID,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	5.46710	(93030116)	375000.00	4751800.00	11.27211	(93041606)
377900.00	4754300.00	3.76884	(93072103)	377950.00	4751300.00	3.97994	(93082619)
371650.00	4748400.00	8.24426	(93112918)	357000.00	4743000.00	1.40429	(93012006)
376450.00	4750540.00	40.67779	(93020406)	364700.00	4746700.00	2.56421	(93012006)
364700.00	4758700.00	1.27353	(93091507)	366700.00	4742700.00	2.89929	(93091119)
366700.00	4758700.00	1.60010	(93091219)	370700.00	4747700.00	10.69875	(93072904)
370700.00	4748700.00	9.40193	(93030202)	370700.00	4749700.00	2.65496	(93061721)
370700.00	4750700.00	2.38831	(93081306)	370700.00	4751700.00	2.82594	(93122813)
370700.00	4752700.00	3.31119	(93092202)	370700.00	4754700.00	2.47821	(93091507)
371760.00	4750600.00	2.87052	(93081320)	372700.00	4746700.00	5.13950	(93112607)
372700.00	4747700.00	13.05997	(93011408)	372700.00	4748700.00	13.96511	(93122420)
372700.00	4749700.00	7.75792	(93123005)	372700.00	4751700.00	4.14029	(93122813)
372700.00	4752700.00	3.89306	(93082621)	372700.00	4753700.00	3.57892	(93101605)
372700.00	4754700.00	2.96701	(93081920)	373200.00	4749200.00	7.35119	(93091119)
373200.00	4750200.00	8.13895	(93030202)	373200.00	4751200.00	4.47134	(93081306)
373200.00	4752200.00	5.26241	(93081508)	373700.00	4748700.00	22.24943	(93073005)
373700.00	4749700.00	22.97805	(93091119)	373700.00	4751700.00	5.29863	(93062908)
374200.00	4749200.00	21.60382	(93100301)	374200.00	4752200.00	6.22800	(93071708)
374700.00	4748700.00	7.52661	(93112706)	374700.00	4749700.00	24.65399	(93122407)
374700.00	4751700.00	10.54210	(93062908)	374700.00	4752700.00	5.41599	(93072407)
374700.00	4753700.00	3.42964	(93061220)	374700.00	4754700.00	2.95369	(93060924)
375200.00	4749200.00	11.68298	(93112502)	375200.00	4752200.00	7.86448	(93072407)
375700.00	4749700.00	10.93011	(93112703)	375700.00	4751700.00	195.14940	(93082301)
376200.00	4749200.00	10.43253	(93112703)	376300.00	4752400.00	6.95707	(93102302)
376700.00	4749700.00	17.44916	(93020406)	376700.00	4750700.00	38.94135	(93020224)
376700.00	4751700.00	7.21803	(93042007)	376700.00	4752700.00	4.81846	(93080620)
376700.00	4753700.00	6.86007	(93102618)	376700.00	4754700.00	3.19242	(93102201)
376700.00	4758700.00	1.50155	(93072703)	377200.00	4752200.00	5.07564	(93042113)
378700.00	4747700.00	5.42108	(93020406)	378700.00	4748700.00	13.64158	(93012504)
378700.00	4749700.00	7.20395	(93080503)	378700.00	4750700.00	4.26995	(93042019)
378700.00	4751700.00	3.10782	(93090920)	378700.00	4752700.00	3.16753	(93052223)
378700.00	4753700.00	4.27991	(93030520)	378700.00	4754700.00	3.72907	(93042604)
379400.00	4753600.00	3.15582	(93031023)	380700.00	4746700.00	2.06545	(93061819)
380700.00	4748700.00	3.05824	(93082704)	380700.00	4750700.00	2.71575	(93072203)
380700.00	4752700.00	2.02319	(93091122)	380700.00	4754700.00	2.90447	(93063023)
380700.00	4756700.00	2.54347	(93042604)	380700.00	4758700.00	1.23062	(93022105)
380889.00	4747781.00	4.75216	(93072702)	382700.00	4748700.00	2.67270	(93010405)
382700.00	4750700.00	9.50932	(93122520)	382700.00	4752700.00	10.04291	(93110702)
382700.00	4754700.00	5.69256	(93062902)	382700.00	4756700.00	4.99925	(93091923)
382700.00	4758700.00	2.28765	(93042604)	382800.00	4746400.00	2.49856	(93081908)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G38 ***
INCLUDING SOURCE(S): PHOSACID,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	2.17058	(93091224)	360000.00	4750000.00	1.97559	(93071921)
364700.00	4750700.00	2.02364	(93112917)	364700.00	4754700.00	1.78923	(93052307)
366700.00	4756700.00	1.82018	(93071708)	370700.00	4758700.00	1.17255	(93040605)
368700.00	4752700.00	1.78452	(93092107)	372700.00	4756700.00	1.83640	(93082103)
368700.00	4744700.00	5.00633	(93091119)	368700.00	4748700.00	1.83826	(93080502)
376150.00	4752050.00	5.86532	(93030116)	376200.00	4752050.00	5.64120	(93081711)
376250.00	4752050.00	5.89745	(93012909)	376100.00	4752100.00	6.89945	(93101407)
376150.00	4752100.00	5.79469	(93030116)	376250.00	4752100.00	5.52341	(93081711)
376150.00	4752150.00	6.29765	(93101407)	376200.00	4752150.00	5.35320	(93061118)
376250.00	4752150.00	5.29452	(93090320)	374900.00	4751750.00	12.10118	(93062908)
374950.00	4751775.00	11.50402	(93062908)	375000.00	4751790.00	11.55260	(93041606)
375050.00	4751775.00	12.13486	(93041606)	375100.00	4751775.00	11.82243	(93081507)
375050.00	4751800.00	11.94437	(93081507)	375100.00	4751800.00	12.68155	(93081507)
374950.00	4751850.00	10.84940	(93081507)	375000.00	4751850.00	11.79285	(93081507)
375050.00	4751850.00	12.61180	(93081507)	375100.00	4751850.00	13.11946	(93102210)
376400.00	4750490.00	40.85816	(93012108)	376450.00	4750490.00	39.44458	(93020406)
376500.00	4750490.00	37.68291	(93020406)	376400.00	4750540.00	42.51147	(93020406)
376500.00	4750540.00	39.19297	(93020406)	376550.00	4750540.00	37.93624	(93020406)
376400.00	4750590.00	44.50018	(93020406)	376450.00	4750590.00	42.92382	(93020406)
376500.00	4750590.00	41.39371	(93020406)	376450.00	4750640.00	44.86110	(93020304)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G39 ***
INCLUDING SOURCE(S): GRAN1RNG,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	12.79419	(93091020)	375000.00	4751800.00	206.39770	(93072803)
377900.00	4754300.00	13.21445	(93041903)	377950.00	4751300.00	15.03703	(93100701)
371650.00	4748400.00	33.36155	(93042704)	357000.00	4743000.00	4.60762	(93012006)
376450.00	4750540.00	44.78777	(93020406)	364700.00	4746700.00	10.04318	(93012006)
364700.00	4758700.00	4.27193	(93020501)	366700.00	4742700.00	10.10450	(93092224)
366700.00	4758700.00	5.92159	(93112017)	370700.00	4747700.00	26.90363	(93113002)
370700.00	4748700.00	28.77281	(93120718)	370700.00	4749700.00	12.40667	(93123002)
370700.00	4750700.00	12.13223	(93090205)	370700.00	4751700.00	11.51392	(93053020)
370700.00	4752700.00	10.41057	(93091924)	370700.00	4754700.00	13.68913	(93122604)
371760.00	4750600.00	12.92306	(93091906)	372700.00	4746700.00	6.65303	(93112607)
372700.00	4747700.00	9.42168	(93112607)	372700.00	4748700.00	11.19726	(93112507)
372700.00	4749700.00	37.20006	(93080103)	372700.00	4751700.00	15.12069	(93091920)
372700.00	4752700.00	35.67929	(93031123)	372700.00	4753700.00	26.54139	(93112621)
372700.00	4754700.00	5.89055	(93081920)	373200.00	4749200.00	22.46868	(93070705)
373200.00	4750200.00	32.25163	(93021218)	373200.00	4751200.00	16.88222	(93072402)
373200.00	4752200.00	33.78933	(93092505)	373700.00	4748700.00	15.12266	(93112607)
373700.00	4749700.00	59.92772	(93070705)	373700.00	4751700.00	21.19324	(93091920)
374200.00	4749200.00	20.16920	(93112607)	374200.00	4752200.00	84.21717	(93092419)
374700.00	4748700.00	9.08263	(93112706)	374700.00	4749700.00	53.76597	(93042805)
374700.00	4751700.00	30.39814	(93061722)	374700.00	4752700.00	14.06821	(93092020)
374700.00	4753700.00	9.97046	(93020222)	374700.00	4754700.00	18.64261	(93101219)
375200.00	4749200.00	14.20894	(93112502)	375200.00	4752200.00	32.61479	(93081709)
375700.00	4749700.00	11.81598	(93112703)	375700.00	4751700.00	189.91420	(93110702)
376200.00	4749200.00	11.91728	(93112703)	376300.00	4752400.00	20.36429	(93100523)
376700.00	4749700.00	20.25806	(93020406)	376700.00	4750700.00	42.36768	(93112602)
376700.00	4751700.00	15.29100	(93090920)	376700.00	4752700.00	13.08338	(93100523)
376700.00	4753700.00	14.58457	(93013120)	376700.00	4754700.00	6.28265	(93101404)
376700.00	4758700.00	6.47612	(93072703)	377200.00	4752200.00	16.89504	(93110501)
378700.00	4747700.00	6.53609	(93020406)	378700.00	4748700.00	35.76567	(93091803)
378700.00	4749700.00	44.32557	(93072905)	378700.00	4750700.00	13.94453	(93042002)
378700.00	4751700.00	11.63004	(93021604)	378700.00	4752700.00	15.51950	(93092302)
378700.00	4753700.00	11.66963	(93063023)	378700.00	4754700.00	13.54550	(93093003)
379400.00	4753600.00	18.12028	(93081403)	380700.00	4746700.00	11.32332	(93012504)
380700.00	4748700.00	13.14466	(93072104)	380700.00	4750700.00	13.95924	(93012722)
380700.00	4752700.00	15.01253	(93050920)	380700.00	4754700.00	8.67760	(93112106)
380700.00	4756700.00	10.91059	(93042604)	380700.00	4758700.00	2.57232	(93032004)
380889.00	4747781.00	23.76492	(93011419)	382700.00	4748700.00	13.28682	(93010405)
382700.00	4750700.00	21.68716	(93122520)	382700.00	4752700.00	5.02006	(93021424)
382700.00	4754700.00	15.09831	(93062902)	382700.00	4756700.00	14.22091	(93030520)
382700.00	4758700.00	9.97533	(93042604)	382800.00	4746400.00	9.65918	(93011419)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G39 ***
INCLUDING SOURCE(S): GRAN1RNG,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	6.70808	(93091224)	360000.00	4750000.00	6.11752	(93071921)
364700.00	4750700.00	6.49480	(93092002)	364700.00	4754700.00	10.08126	(93092505)
366700.00	4756700.00	6.24160	(93092104)	370700.00	4758700.00	3.03746	(93092719)
368700.00	4752700.00	8.53968	(93070804)	372700.00	4756700.00	11.59770	(93100219)
368700.00	4744700.00	16.78041	(93092224)	368700.00	4748700.00	9.85219	(93091224)
376150.00	4752050.00	12.68679	(93081819)	376200.00	4752050.00	14.36154	(93081819)
376250.00	4752050.00	15.04497	(93081819)	376100.00	4752100.00	13.65549	(93091021)
376150.00	4752100.00	13.70718	(93091020)	376250.00	4752100.00	12.37452	(93061604)
376150.00	4752150.00	13.59235	(93091021)	376200.00	4752150.00	12.67714	(93091020)
376250.00	4752150.00	13.09865	(93091020)	374900.00	4751750.00	54.83131	(93092505)
374950.00	4751775.00	192.22890	(93030919)	375000.00	4751790.00	177.17300	(93072803)
375050.00	4751775.00	222.41860	(93072803)	375100.00	4751775.00	255.20890	(93092419)
375050.00	4751800.00	238.02220	(93092419)	375100.00	4751800.00	228.91320	(93111104)
374950.00	4751850.00	193.06520	(93092419)	375000.00	4751850.00	177.76480	(93111104)
375050.00	4751850.00	199.12900	(93092104)	375100.00	4751850.00	230.24320	(93082303)
376400.00	4750490.00	45.62933	(93020406)	376450.00	4750490.00	43.74265	(93020406)
376500.00	4750490.00	41.68534	(93020406)	376400.00	4750540.00	46.92095	(93020406)
376500.00	4750540.00	43.09514	(93020406)	376550.00	4750540.00	41.80719	(93112602)
376400.00	4750590.00	48.91207	(93020406)	376450.00	4750590.00	47.00764	(93020406)
376500.00	4750590.00	45.41600	(93112602)	376450.00	4750640.00	49.85249	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G40 ***
INCLUDING SOURCE(S): GRAN1BAG,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	17.50909	(93051801)	375000.00	4751800.00	237.51760	(93031123)
377900.00	4754300.00	15.02064	(93041903)	377950.00	4751300.00	21.04832	(93030201)
371650.00	4748400.00	40.36918	(93042704)	357000.00	4743000.00	5.34201	(93012006)
376450.00	4750540.00	43.90431	(93020406)	364700.00	4746700.00	11.75267	(93012006)
364700.00	4758700.00	4.62172	(93020501)	366700.00	4742700.00	11.58600	(93092224)
366700.00	4758700.00	6.47983	(93112017)	370700.00	4747700.00	31.49710	(93113002)
370700.00	4748700.00	33.26862	(93120718)	370700.00	4749700.00	18.52650	(93091224)
370700.00	4750700.00	17.42275	(93081705)	370700.00	4751700.00	16.46395	(93072021)
370700.00	4752700.00	15.35192	(93091924)	370700.00	4754700.00	15.55455	(93122604)
371760.00	4750600.00	20.00609	(93081202)	372700.00	4746700.00	6.51793	(93112607)
372700.00	4747700.00	9.24683	(93112607)	372700.00	4748700.00	10.97005	(93112507)
372700.00	4749700.00	50.49003	(93021020)	372700.00	4751700.00	23.62890	(93053020)
372700.00	4752700.00	39.88519	(93031123)	372700.00	4753700.00	30.13716	(93112621)
372700.00	4754700.00	14.50746	(93081720)	373200.00	4749200.00	37.13829	(93070705)
373200.00	4750200.00	46.93285	(93120718)	373200.00	4751200.00	24.55589	(93090205)
373200.00	4752200.00	35.66328	(93092505)	373700.00	4748700.00	14.82903	(93112607)
373700.00	4749700.00	36.38219	(93120601)	373700.00	4751700.00	29.26018	(93062204)
374200.00	4749200.00	19.75263	(93112607)	374200.00	4752200.00	97.00052	(93092419)
374700.00	4748700.00	8.75714	(93112706)	374700.00	4749700.00	88.54899	(93101703)
374700.00	4751700.00	40.40690	(93070905)	374700.00	4752700.00	34.03061	(93030920)
374700.00	4753700.00	15.39113	(93020222)	374700.00	4754700.00	25.68258	(93111406)
375200.00	4749200.00	13.75389	(93112502)	375200.00	4752200.00	41.93795	(93081709)
375700.00	4749700.00	11.20943	(93112703)	375700.00	4751700.00	184.46300	(93110702)
376200.00	4749200.00	11.50790	(93112703)	376300.00	4752400.00	29.84218	(93100523)
376700.00	4749700.00	19.78798	(93020406)	376700.00	4750700.00	41.59277	(93112602)
376700.00	4751700.00	17.62123	(93121703)	376700.00	4752700.00	18.25819	(93100523)
376700.00	4753700.00	19.70749	(93122103)	376700.00	4754700.00	10.53849	(93101404)
376700.00	4758700.00	9.26420	(93072703)	377200.00	4752200.00	24.80485	(93092302)
378700.00	4747700.00	6.39044	(93020406)	378700.00	4748700.00	11.32014	(93103101)
378700.00	4749700.00	54.92079	(93072905)	378700.00	4750700.00	20.57801	(93072605)
378700.00	4751700.00	16.37935	(93121504)	378700.00	4752700.00	21.23607	(93092302)
378700.00	4753700.00	13.91830	(93112106)	378700.00	4754700.00	18.90259	(93042604)
379400.00	4753600.00	27.25675	(93081403)	380700.00	4746700.00	15.09426	(93121406)
380700.00	4748700.00	18.42811	(93072104)	380700.00	4750700.00	20.28292	(93012722)
380700.00	4752700.00	19.69415	(93021424)	380700.00	4754700.00	9.92351	(93112106)
380700.00	4756700.00	14.24070	(93042604)	380700.00	4758700.00	3.11390	(93032004)
380889.00	4747781.00	27.69829	(93011419)	382700.00	4748700.00	16.36137	(93010405)
382700.00	4750700.00	5.11211	(93073104)	382700.00	4752700.00	5.09584	(93021424)
382700.00	4754700.00	15.75357	(93062902)	382700.00	4756700.00	3.89196	(93081403)
382700.00	4758700.00	11.95276	(93042604)	382800.00	4746400.00	12.29082	(93011419)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G40 ***
INCLUDING SOURCE(S): GRAN1BAG,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	7.63830	(93091224)	360000.00	4750000.00	7.05261	(93071921)
364700.00	4750700.00	7.82875	(93092002)	364700.00	4754700.00	10.90894	(93092505)
366700.00	4756700.00	7.18537	(93092104)	370700.00	4758700.00	4.65584	(93092719)
368700.00	4752700.00	11.84141	(93070804)	372700.00	4756700.00	16.95272	(93100219)
368700.00	4744700.00	18.65295	(93092224)	368700.00	4748700.00	13.26376	(93091224)
376150.00	4752050.00	16.70287	(93061604)	376200.00	4752050.00	17.31271	(93081819)
376250.00	4752050.00	17.74743	(93081819)	376100.00	4752100.00	16.46014	(93012710)
376150.00	4752100.00	17.07641	(93051801)	376250.00	4752100.00	16.26842	(93061604)
376150.00	4752150.00	16.51666	(93012710)	376200.00	4752150.00	15.02901	(93051801)
376250.00	4752150.00	17.02377	(93051801)	374900.00	4751750.00	49.97327	(93092703)
374950.00	4751775.00	232.60160	(93092505)	375000.00	4751790.00	200.72620	(93081424)
375050.00	4751775.00	221.67800	(93031123)	375100.00	4751775.00	283.08200	(93112619)
375050.00	4751800.00	252.38710	(93092419)	375100.00	4751800.00	246.10180	(93111104)
374950.00	4751850.00	225.69790	(93092419)	375000.00	4751850.00	185.30570	(93111104)
375050.00	4751850.00	269.64410	(93092104)	375100.00	4751850.00	237.44700	(93082303)
376400.00	4750490.00	44.73590	(93020406)	376450.00	4750490.00	42.88440	(93020406)
376500.00	4750490.00	40.86086	(93020406)	376400.00	4750540.00	45.99973	(93020406)
376500.00	4750540.00	42.24714	(93020406)	376550.00	4750540.00	40.99180	(93112602)
376400.00	4750590.00	47.96189	(93020406)	376450.00	4750590.00	46.09752	(93020406)
376500.00	4750590.00	44.54281	(93112602)	376450.00	4750640.00	48.91444	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G41 . ***
INCLUDING SOURCE(S): GRAN1DRY,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	10.93154	(93070402)	375000.00	4751800.00	145.19030	(93072802)
377900.00	4754300.00	11.06737	(93041903)	377950.00	4751300.00	10.53860	(93021418)
371650.00	4748400.00	24.85908	(93042704)	357000.00	4743000.00	3.77946	(93012006)
376450.00	4750540.00	45.40952	(93020406)	364700.00	4746700.00	8.07222	(93012006)
364700.00	4758700.00	3.69889	(93030119)	366700.00	4742700.00	8.50680	(93092224)
366700.00	4758700.00	5.06114	(93112017)	370700.00	4747700.00	20.83728	(93113002)
370700.00	4748700.00	22.64583	(93120718)	370700.00	4749700.00	9.30124	(93080502)
370700.00	4750700.00	9.22535	(93072402)	370700.00	4751700.00	8.53643	(93053020)
370700.00	4752700.00	8.50025	(93080424)	370700.00	4754700.00	12.40867	(93030119)
371760.00	4750600.00	9.67760	(93091906)	372700.00	4746700.00	6.77611	(93112607)
372700.00	4747700.00	9.42068	(93070705)	372700.00	4748700.00	11.39065	(93112507)
372700.00	4749700.00	28.38721	(93080103)	372700.00	4751700.00	11.43146	(93091920)
372700.00	4752700.00	29.22207	(93072803)	372700.00	4753700.00	19.69914	(93080420)
372700.00	4754700.00	10.65947	(93081720)	373200.00	4749200.00	17.71608	(93111407)
373200.00	4750200.00	22.71812	(93022107)	373200.00	4751200.00	12.27170	(93072402)
373200.00	4752200.00	24.41295	(93092505)	373700.00	4748700.00	17.23332	(93122807)
373700.00	4749700.00	34.32534	(93070705)	373700.00	4751700.00	14.56825	(93091920)
374200.00	4749200.00	20.48141	(93112607)	374200.00	4752200.00	66.00002	(93092419)
374700.00	4748700.00	9.37141	(93112706)	374700.00	4749700.00	28.89355	(93042805)
374700.00	4751700.00	24.67954	(93081005)	374700.00	4752700.00	28.17898	(93040201)
374700.00	4753700.00	8.23171	(93062004)	374700.00	4754700.00	14.83518	(93101219)
375200.00	4749200.00	14.58092	(93112502)	375200.00	4752200.00	26.78076	(93052121)
375700.00	4749700.00	12.35190	(93112703)	375700.00	4751700.00	189.39870	(93021424)
376200.00	4749200.00	12.27892	(93112703)	376300.00	4752400.00	17.69230	(93090320)
376700.00	4749700.00	20.62203	(93020406)	376700.00	4750700.00	43.04678	(93112602)
376700.00	4751700.00	13.14838	(93090920)	376700.00	4752700.00	11.06408	(93090320)
376700.00	4753700.00	10.56222	(93013120)	376700.00	4754700.00	5.25708	(93021303)
376700.00	4758700.00	4.76850	(93072703)	377200.00	4752200.00	11.71010	(93110501)
378700.00	4747700.00	6.66527	(93020406)	378700.00	4748700.00	26.13818	(93091803)
378700.00	4749700.00	32.59034	(93071424)	378700.00	4750700.00	10.32390	(93042002)
378700.00	4751700.00	7.79239	(93071605)	378700.00	4752700.00	11.21851	(93110501)
378700.00	4753700.00	10.51149	(93063023)	378700.00	4754700.00	11.52461	(93050921)
379400.00	4753600.00	12.87591	(93100902)	380700.00	4746700.00	8.16767	(93012423)
380700.00	4748700.00	8.92249	(93072104)	380700.00	4750700.00	10.86353	(93072203)
380700.00	4752700.00	11.67347	(93050920)	380700.00	4754700.00	7.77932	(93063023)
380700.00	4756700.00	7.79356	(93042604)	380700.00	4758700.00	2.02175	(93032004)
380889.00	4747781.00	18.59476	(93011419)	382700.00	4748700.00	10.35965	(93010405)
382700.00	4750700.00	17.05707	(93122520)	382700.00	4752700.00	16.08652	(93110702)
382700.00	4754700.00	14.18455	(93062902)	382700.00	4756700.00	12.59914	(93030520)
382700.00	4758700.00	7.91275	(93042604)	382800.00	4746400.00	7.59020	(93090805)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G41 ***
INCLUDING SOURCE(S): GRAN1DRY,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	5.75604	(93091224)	360000.00	4750000.00	5.39473	(93071921)
364700.00	4750700.00	5.23996	(93092002)	364700.00	4754700.00	9.07841	(93092505)
366700.00	4756700.00	5.13958	(93092104)	370700.00	4758700.00	2.54167	(93040201)
368700.00	4752700.00	6.28610	(93072004)	372700.00	4756700.00	7.97937	(93062821)
368700.00	4744700.00	14.40475	(93092224)	368700.00	4748700.00	7.29814	(93100606)
376150.00	4752050.00	11.75329	(93081819)	376200.00	4752050.00	13.24204	(93081819)
376250.00	4752050.00	13.81681	(93081819)	376100.00	4752100.00	11.33209	(93071103)
376150.00	4752100.00	11.63186	(93091020)	376250.00	4752100.00	11.21835	(93081819)
376150.00	4752150.00	11.56211	(93091021)	376200.00	4752150.00	11.20411	(93091020)
376250.00	4752150.00	11.34510	(93091020)	374900.00	4751750.00	34.33755	(93062207)
374950.00	4751775.00	133.34580	(93081604)	375000.00	4751790.00	158.06740	(93081424)
375050.00	4751775.00	171.16790	(93081424)	375100.00	4751775.00	186.32380	(93080720)
375050.00	4751800.00	171.48380	(93080720)	375100.00	4751800.00	165.03500	(93070724)
374950.00	4751850.00	133.60280	(93080720)	375000.00	4751850.00	128.75970	(93070724)
375050.00	4751850.00	158.91140	(93072903)	375100.00	4751850.00	159.88530	(93030320)
376400.00	4750490.00	46.23666	(93020406)	376450.00	4750490.00	44.34079	(93020406)
376500.00	4750490.00	42.27459	(93020406)	376400.00	4750540.00	47.55243	(93020406)
376500.00	4750540.00	43.70518	(93020406)	376550.00	4750540.00	42.47031	(93112602)
376400.00	4750590.00	49.56638	(93020406)	376450.00	4750590.00	47.64983	(93020406)
376500.00	4750590.00	46.11561	(93112602)	376450.00	4750640.00	50.59017	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G42 ***
INCLUDING SOURCE(S): GRAN2TGS,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	5.44982	(93012909)	375000.00	4751800.00	19.34103	(93042009)
377900.00	4754300.00	3.19862	(93071201)	377950.00	4751300.00	4.57884	(93062719)
371650.00	4748400.00	8.26286	(93113002)	357000.00	4743000.00	1.76616	(93012006)
376450.00	4750540.00	39.18464	(93020406)	364700.00	4746700.00	3.25796	(93012006)
364700.00	4758700.00	1.34849	(93020219)	366700.00	4742700.00	3.99888	(93092224)
366700.00	4758700.00	2.10295	(93091219)	370700.00	4747700.00	12.61075	(93113002)
370700.00	4748700.00	13.27257	(93111022)	370700.00	4749700.00	2.79024	(93091703)
370700.00	4750700.00	3.19960	(93101119)	370700.00	4751700.00	7.72301	(93072021)
370700.00	4752700.00	8.75103	(93081820)	370700.00	4754700.00	3.21656	(93090120)
371760.00	4750600.00	3.70162	(93081320)	372700.00	4746700.00	5.72763	(93112607)
372700.00	4747700.00	15.78393	(93080303)	372700.00	4748700.00	9.64971	(93112507)
372700.00	4749700.00	6.60665	(93080103)	372700.00	4751700.00	9.10527	(93091920)
372700.00	4752700.00	8.52522	(93080720)	372700.00	4753700.00	3.62565	(93091219)
372700.00	4754700.00	3.37637	(93081920)	373200.00	4749200.00	4.84225	(93121816)
373200.00	4750200.00	7.78058	(93062519)	373200.00	4751200.00	5.97443	(93061007)
373200.00	4752200.00	11.14323	(93071202)	373700.00	4748700.00	22.33795	(93092802)
373700.00	4749700.00	22.95975	(93070705)	373700.00	4751700.00	13.27775	(93081302)
374200.00	4749200.00	17.25420	(93120521)	374200.00	4752200.00	11.84938	(93081721)
374700.00	4748700.00	8.33540	(93112706)	374700.00	4749700.00	23.28577	(93100302)
374700.00	4751700.00	24.37806	(93072823)	374700.00	4752700.00	4.83234	(93081902)
374700.00	4753700.00	3.82776	(93030219)	374700.00	4754700.00	5.48626	(93092219)
375200.00	4749200.00	12.94663	(93112502)	375200.00	4752200.00	10.22150	(93083006)
375700.00	4749700.00	11.55940	(93112703)	375700.00	4751700.00	122.88410	(93092019)
376200.00	4749200.00	10.91813	(93112703)	376300.00	4752400.00	7.65024	(93083120)
376700.00	4749700.00	17.78164	(93020406)	376700.00	4750700.00	36.72926	(93112602)
376700.00	4751700.00	5.90859	(93042007)	376700.00	4752700.00	4.90050	(93090321)
376700.00	4753700.00	4.63117	(93092621)	376700.00	4754700.00	3.17648	(93031619)
376700.00	4758700.00	2.01852	(93072703)	377200.00	4752200.00	5.54232	(93090419)
378700.00	4747700.00	5.63372	(93020406)	378700.00	4748700.00	19.91777	(93091803)
378700.00	4749700.00	13.20060	(93072905)	378700.00	4750700.00	5.31810	(93042019)
378700.00	4751700.00	3.90165	(93090920)	378700.00	4752700.00	3.40664	(93090419)
378700.00	4753700.00	3.19403	(93072820)	378700.00	4754700.00	3.22883	(93050921)
379400.00	4753600.00	2.92270	(93081403)	380700.00	4746700.00	2.69164	(93112501)
380700.00	4748700.00	4.42454	(93082704)	380700.00	4750700.00	2.83659	(93082619)
380700.00	4752700.00	2.95219	(93050920)	380700.00	4754700.00	2.53755	(93063023)
380700.00	4756700.00	2.43198	(93042604)	380700.00	4758700.00	1.49346	(93092707)
380889.00	4747781.00	8.06831	(93081404)	382700.00	4748700.00	4.17708	(93022604)
382700.00	4750700.00	10.86097	(93122520)	382700.00	4752700.00	11.36582	(93110702)
382700.00	4754700.00	8.18297	(93062902)	382700.00	4756700.00	7.21634	(93030520)
382700.00	4758700.00	2.99644	(93042604)	382800.00	4746400.00	3.14274	(93100206)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G42 ***
INCLUDING SOURCE(S): GRAN2TGS,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	3.09253	(93091224)	360000.00	4750000.00	2.67282	(93071921)
364700.00	4750700.00	3.69992	(93062304)	364700.00	4754700.00	3.89798	(93092505)
366700.00	4756700.00	1.73437	(93071708)	370700.00	4758700.00	1.20702	(93022023)
368700.00	4752700.00	5.19677	(93092122)	372700.00	4756700.00	3.16387	(93111403)
368700.00	4744700.00	7.71770	(93092224)	368700.00	4748700.00	2.68782	(93091224)
376150.00	4752050.00	5.63771	(93012909)	376200.00	4752050.00	5.63512	(93012909)
376250.00	4752050.00	5.35974	(93081819)	376100.00	4752100.00	6.24909	(93081711)
376150.00	4752100.00	5.67905	(93081711)	376250.00	4752100.00	5.64236	(93012909)
376150.00	4752150.00	5.97499	(93071520)	376200.00	4752150.00	5.60451	(93081711)
376250.00	4752150.00	5.13797	(93012909)	374900.00	4751750.00	23.80944	(93100503)
374950.00	4751775.00	27.26630	(93092924)	375000.00	4751790.00	20.25380	(93042009)
375050.00	4751775.00	19.25762	(93042009)	375100.00	4751775.00	14.87101	(93042009)
375050.00	4751800.00	16.50924	(93042009)	375100.00	4751800.00	11.78767	(93042009)
374950.00	4751850.00	16.05992	(93042009)	375000.00	4751850.00	14.00386	(93042009)
375050.00	4751850.00	11.21824	(93070908)	375100.00	4751850.00	12.67869	(93081008)
376400.00	4750490.00	39.96492	(93020406)	376450.00	4750490.00	38.26192	(93020406)
376500.00	4750490.00	36.43016	(93020406)	376400.00	4750540.00	41.10092	(93020406)
376500.00	4750540.00	37.88699	(93112602)	376550.00	4750540.00	36.58597	(93112602)
376400.00	4750590.00	42.81005	(93020406)	376450.00	4750590.00	41.33094	(93112602)
376500.00	4750590.00	39.75100	(93112602)	376450.00	4750640.00	43.62492	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G43 ***
INCLUDING SOURCE(S): GRAN2COL,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	36.58425	(93063023)	375000.00	4751800.00	344.86110	(93092419)
377900.00	4754300.00	24.45122	(93041903)	377950.00	4751300.00	32.80322	(93100701)
371650.00	4748400.00	43.93063	(93042704)	357000.00	4743000.00	7.26070	(93012006)
376450.00	4750540.00	56.81639	(93020406)	364700.00	4746700.00	15.69118	(93012006)
364700.00	4758700.00	7.35763	(93020501)	366700.00	4742700.00	15.47596	(93092224)
366700.00	4758700.00	5.26107	(93083101)	370700.00	4747700.00	35.30169	(93113002)
370700.00	4748700.00	37.83260	(93120718)	370700.00	4749700.00	26.13097	(93091224)
370700.00	4750700.00	26.95166	(93081705)	370700.00	4751700.00	22.65519	(93053020)
370700.00	4752700.00	38.64659	(93012801)	370700.00	4754700.00	22.71282	(93020501)
371760.00	4750600.00	31.16237	(93081202)	372700.00	4746700.00	8.44673	(93112607)
372700.00	4747700.00	12.00884	(93112607)	372700.00	4748700.00	14.26732	(93112507)
372700.00	4749700.00	64.32032	(93020424)	372700.00	4751700.00	33.97632	(93091920)
372700.00	4752700.00	64.24052	(93031123)	372700.00	4753700.00	27.21016	(93080420)
372700.00	4754700.00	13.17844	(93082722)	373200.00	4749200.00	53.92727	(93070705)
373200.00	4750200.00	77.54774	(93120718)	373200.00	4751200.00	47.21899	(93072022)
373200.00	4752200.00	86.95829	(93092005)	373700.00	4748700.00	19.35034	(93112607)
373700.00	4749700.00	34.89779	(93120601)	373700.00	4751700.00	47.05804	(93081302)
374200.00	4749200.00	25.90126	(93112607)	374200.00	4752200.00	111.62260	(93092419)
374700.00	4748700.00	11.40314	(93112706)	374700.00	4749700.00	64.62608	(93101703)
374700.00	4751700.00	260.73480	(93073105)	374700.00	4752700.00	41.22058	(93090224)
374700.00	4753700.00	31.43021	(93103019)	374700.00	4754700.00	39.97665	(93111406)
375200.00	4749200.00	17.98227	(93112502)	375200.00	4752200.00	118.30980	(93103019)
375700.00	4749700.00	14.63404	(93112703)	375700.00	4751700.00	250.75740	(93110702)
376200.00	4749200.00	14.94215	(93112703)	376300.00	4752400.00	63.42939	(93070204)
376700.00	4749700.00	25.59644	(93020406)	376700.00	4750700.00	53.52133	(93112602)
376700.00	4751700.00	41.25249	(93073103)	376700.00	4752700.00	39.75496	(93100523)
376700.00	4753700.00	34.67889	(93122103)	376700.00	4754700.00	19.74382	(93101404)
376700.00	4758700.00	13.05872	(93072703)	377200.00	4752200.00	46.24619	(93050905)
378700.00	4747700.00	8.20699	(93020406)	378700.00	4748700.00	13.66044	(93011419)
378700.00	4749700.00	54.58691	(93072905)	378700.00	4750700.00	26.84574	(93092305)
378700.00	4751700.00	25.20452	(93092922)	378700.00	4752700.00	37.89989	(93050905)
378700.00	4753700.00	21.83587	(93030520)	378700.00	4754700.00	30.01819	(93042604)
379400.00	4753600.00	39.62566	(93081403)	380700.00	4746700.00	18.55745	(93012504)
380700.00	4748700.00	22.91310	(93072104)	380700.00	4750700.00	24.16553	(93012722)
380700.00	4752700.00	28.04888	(93030403)	380700.00	4754700.00	15.86122	(93112106)
380700.00	4756700.00	20.77546	(93042604)	380700.00	4758700.00	5.01833	(93032004)
380889.00	4747781.00	29.55436	(93011419)	382700.00	4748700.00	20.12557	(93022604)
382700.00	4750700.00	6.55984	(93102304)	382700.00	4752700.00	6.52738	(93110702)
382700.00	4754700.00	5.37486	(93081403)	382700.00	4756700.00	5.02982	(93081403)
382700.00	4758700.00	16.67522	(93042604)	382800.00	4746400.00	15.74822	(93011419)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G43 ***
INCLUDING SOURCE(S): GRAN2COL,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	10.52196	(93091224)	360000.00	4750000.00	9.19438	(93071921)
364700.00	4750700.00	11.38536	(93092002)	364700.00	4754700.00	15.56751	(93092505)
366700.00	4756700.00	10.79779	(93092104)	370700.00	4758700.00	7.39296	(93092719)
368700.00	4752700.00	25.47777	(93013023)	372700.00	4756700.00	26.34946	(93100219)
368700.00	4744700.00	21.84817	(93092224)	368700.00	4748700.00	20.30361	(93091224)
376150.00	4752050.00	39.89048	(93063023)	376200.00	4752050.00	39.90282	(93060421)
376250.00	4752050.00	33.52869	(93031023)	376100.00	4752100.00	36.57800	(93072820)
376150.00	4752100.00	41.06563	(93072820)	376250.00	4752100.00	35.23635	(93063023)
376150.00	4752150.00	29.26154	(93091923)	376200.00	4752150.00	41.04915	(93072820)
376250.00	4752150.00	31.51677	(93072820)	374900.00	4751750.00	347.93640	(93030919)
374950.00	4751775.00	343.16920	(93031123)	375000.00	4751790.00	440.36700	(93092419)
375050.00	4751775.00	395.42140	(93092419)	375100.00	4751775.00	533.29250	(93092104)
375050.00	4751800.00	454.02720	(93092104)	375100.00	4751800.00	393.55060	(93082303)
374950.00	4751850.00	349.50840	(93111023)	375000.00	4751850.00	352.17640	(93122604)
375050.00	4751850.00	394.84480	(93082303)	375100.00	4751850.00	140.58110	(93081503)
376400.00	4750490.00	57.99884	(93020406)	376450.00	4750490.00	55.53389	(93020406)
376500.00	4750490.00	52.85392	(93020406)	376400.00	4750540.00	59.59966	(93020406)
376500.00	4750540.00	54.84431	(93112602)	376550.00	4750540.00	53.01423	(93112602)
376400.00	4750590.00	62.10188	(93020406)	376450.00	4750590.00	59.86567	(93112602)
376500.00	4750590.00	57.62639	(93112602)	376450.00	4750640.00	63.30640	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G44 ***
INCLUDING SOURCE(S): GRAN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	6.04120	(93101407)	375000.00	4751800.00	10.62840	(93041606)
377900.00	4754300.00	3.87561	(93072103)	377950.00	4751300.00	4.68456	(93082619)
371650.00	4748400.00	6.48048	(93092119)	357000.00	4743000.00	1.30585	(93012006)
376450.00	4750540.00	42.86522	(93020406)	364700.00	4746700.00	2.33227	(93100606)
364700.00	4758700.00	1.27231	(93091507)	366700.00	4742700.00	2.73774	(93091119)
366700.00	4758700.00	1.50511	(93091219)	370700.00	4747700.00	11.25344	(93072904)
370700.00	4748700.00	8.34036	(93111022)	370700.00	4749700.00	2.82680	(93080320)
370700.00	4750700.00	2.52700	(93060302)	370700.00	4751700.00	2.76007	(93122813)
370700.00	4752700.00	3.40215	(93092202)	370700.00	4754700.00	2.51643	(93103009)
371760.00	4750600.00	2.71127	(93081320)	372700.00	4746700.00	5.12399	(93112607)
372700.00	4747700.00	15.18587	(93072705)	372700.00	4748700.00	8.34530	(93112507)
372700.00	4749700.00	6.41957	(93021218)	372700.00	4751700.00	3.98478	(93122813)
372700.00	4752700.00	4.39179	(93030802)	372700.00	4753700.00	4.08989	(93101605)
372700.00	4754700.00	2.99589	(93042020)	373200.00	4749200.00	5.16536	(93091119)
373200.00	4750200.00	6.05633	(93021502)	373200.00	4751200.00	3.78202	(93081208)
373200.00	4752200.00	4.74594	(93081508)	373700.00	4748700.00	16.39708	(93073005)
373700.00	4749700.00	19.21357	(93091119)	373700.00	4751700.00	5.19825	(93062908)
374200.00	4749200.00	19.70249	(93092802)	374200.00	4752200.00	5.63932	(93071708)
374700.00	4748700.00	7.48057	(93112607)	374700.00	4749700.00	20.25123	(93100901)
374700.00	4751700.00	9.97899	(93062908)	374700.00	4752700.00	5.56411	(93072407)
374700.00	4753700.00	3.54727	(93061220)	374700.00	4754700.00	2.80969	(93030219)
375200.00	4749200.00	11.66247	(93112502)	375200.00	4752200.00	8.87743	(93072407)
375700.00	4749700.00	10.91146	(93112502)	375700.00	4751700.00	359.94170	(93082803)
376200.00	4749200.00	10.54398	(93112703)	376300.00	4752400.00	6.84348	(93070121)
376700.00	4749700.00	17.96177	(93020406)	376700.00	4750700.00	41.58026	(93112602)
376700.00	4751700.00	7.36358	(93042007)	376700.00	4752700.00	4.39406	(93071201)
376700.00	4753700.00	4.45651	(93052920)	376700.00	4754700.00	2.98065	(93102318)
376700.00	4758700.00	1.46865	(93080920)	377200.00	4752200.00	5.08278	(93042113)
378700.00	4747700.00	5.50964	(93020406)	378700.00	4748700.00	13.81388	(93123018)
378700.00	4749700.00	9.75098	(93100502)	378700.00	4750700.00	4.79950	(93042019)
378700.00	4751700.00	3.23540	(93090920)	378700.00	4752700.00	4.49022	(93050905)
378700.00	4753700.00	4.24167	(93030520)	378700.00	4754700.00	2.96458	(93042604)
379400.00	4753600.00	3.40059	(93031023)	380700.00	4746700.00	2.17330	(93011407)
380700.00	4748700.00	3.14076	(93071424)	380700.00	4750700.00	2.78341	(93072203)
380700.00	4752700.00	2.03112	(93091122)	380700.00	4754700.00	2.60770	(93063023)
380700.00	4756700.00	2.26640	(93042604)	380700.00	4758700.00	1.25967	(93022105)
380889.00	4747781.00	5.87964	(93072702)	382700.00	4748700.00	3.42063	(93092003)
382700.00	4750700.00	10.28173	(93122520)	382700.00	4752700.00	10.79026	(93110702)
382700.00	4754700.00	5.95773	(93072124)	382700.00	4756700.00	5.22492	(93091923)
382700.00	4758700.00	2.13064	(93042604)	382800.00	4746400.00	2.58049	(93081908)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G44 ***
INCLUDING SOURCE(S): GRAN3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	2.19748	(93091224)	360000.00	4750000.00	1.83229	(93071921)
364700.00	4750700.00	1.97906	(93112917)	364700.00	4754700.00	1.79410	(93052307)
366700.00	4756700.00	1.82982	(93071708)	370700.00	4758700.00	1.24230	(93040605)
368700.00	4752700.00	1.76992	(93092107)	372700.00	4756700.00	2.11384	(93112105)
368700.00	4744700.00	4.85339	(93091119)	368700.00	4748700.00	1.83180	(93091703)
376150.00	4752050.00	6.59526	(93101407)	376200.00	4752050.00	5.96914	(93030116)
376250.00	4752050.00	6.01862	(93071520)	376100.00	4752100.00	8.42404	(93101407)
376150.00	4752100.00	7.31224	(93101407)	376250.00	4752100.00	5.55420	(93061118)
376150.00	4752150.00	7.61899	(93101407)	376200.00	4752150.00	6.65211	(93101407)
376250.00	4752150.00	5.81264	(93080620)	374900.00	4751750.00	11.24016	(93062908)
374950.00	4751775.00	10.72528	(93062908)	375000.00	4751790.00	10.85730	(93041606)
375050.00	4751775.00	11.58810	(93041606)	375100.00	4751775.00	11.82124	(93041606)
375050.00	4751800.00	10.93325	(93081507)	375100.00	4751800.00	12.01973	(93081507)
374950.00	4751850.00	9.93406	(93081507)	375000.00	4751850.00	10.80322	(93081507)
375050.00	4751850.00	11.66616	(93081507)	375100.00	4751850.00	12.40755	(93081507)
376400.00	4750490.00	43.15026	(93020406)	376450.00	4750490.00	41.48400	(93020406)
376500.00	4750490.00	39.64216	(93020406)	376400.00	4750540.00	44.78004	(93020406)
376500.00	4750540.00	41.31309	(93020406)	376550.00	4750540.00	39.99682	(93020406)
376400.00	4750590.00	47.08276	(93020406)	376450.00	4750590.00	45.33526	(93020406)
376500.00	4750590.00	43.73021	(93020406)	376450.00	4750640.00	47.91146	(93012108)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G45 ***
INCLUDING SOURCE(S): ASDRYVSC,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	60.57157	(93030520)	375000.00	4751800.00	162.64150	(93111023)
377900.00	4754300.00	25.56964	(93102302)	377950.00	4751300.00	55.76752	(93102304)
371650.00	4748400.00	11.38767	(93112507)	357000.00	4743000.00	7.95785	(93012006)
376450.00	4750540.00	50.23357	(93020406)	364700.00	4746700.00	15.87706	(93012006)
364700.00	4758700.00	6.54736	(93020501)	366700.00	4742700.00	15.32730	(93092224)
366700.00	4758700.00	8.20871	(93112017)	370700.00	4747700.00	7.63866	(93070705)
370700.00	4748700.00	8.81049	(93012006)	370700.00	4749700.00	36.72363	(93121422)
370700.00	4750700.00	39.67813	(93061901)	370700.00	4751700.00	31.20715	(93012118)
370700.00	4752700.00	30.34331	(93012801)	370700.00	4754700.00	18.73378	(93020501)
371760.00	4750600.00	51.04847	(93030106)	372700.00	4746700.00	7.20983	(93112607)
372700.00	4747700.00	10.30017	(93112607)	372700.00	4748700.00	12.17408	(93112507)
372700.00	4749700.00	83.57281	(93020424)	372700.00	4751700.00	51.60585	(93012118)
372700.00	4752700.00	45.78066	(93031123)	372700.00	4753700.00	41.26993	(93112621)
372700.00	4754700.00	13.73338	(93090202)	373200.00	4749200.00	70.92972	(93092224)
373200.00	4750200.00	101.71550	(93111022)	373200.00	4751200.00	84.35619	(93061901)
373200.00	4752200.00	58.55375	(93092505)	373700.00	4748700.00	16.62478	(93112607)
373700.00	4749700.00	26.27556	(93112507)	373700.00	4751700.00	73.06136	(93042703)
374200.00	4749200.00	22.28076	(93112607)	374200.00	4752200.00	71.53063	(93111104)
374700.00	4748700.00	9.41543	(93112706)	374700.00	4749700.00	37.36895	(93112607)
374700.00	4751700.00	120.40750	(93013023)	374700.00	4752700.00	83.90674	(93092719)
374700.00	4753700.00	63.69026	(93061204)	374700.00	4754700.00	69.70979	(93111406)
375200.00	4749200.00	15.11193	(93112502)	375200.00	4752200.00	195.38610	(93041520)
375700.00	4749700.00	12.46538	(93093018)	375700.00	4751700.00	207.15010	(93081403)
376200.00	4749200.00	12.49257	(93112703)	376300.00	4752400.00	123.23070	(93042604)
376700.00	4749700.00	22.13843	(93020406)	376700.00	4750700.00	47.21983	(93112602)
376700.00	4751700.00	67.89677	(93111002)	376700.00	4752700.00	66.84213	(93093003)
376700.00	4753700.00	75.32996	(93030719)	376700.00	4754700.00	25.01506	(93031801)
376700.00	4758700.00	20.28800	(93072703)	377200.00	4752200.00	71.32937	(93050905)
378700.00	4747700.00	7.00548	(93020406)	378700.00	4748700.00	12.13207	(93112602)
378700.00	4749700.00	43.73583	(93112524)	378700.00	4750700.00	48.10083	(93020405)
378700.00	4751700.00	33.43497	(93121701)	378700.00	4752700.00	44.84993	(93050905)
378700.00	4753700.00	37.93347	(93030520)	378700.00	4754700.00	43.33259	(93042604)
379400.00	4753600.00	44.90740	(93081403)	380700.00	4746700.00	26.82069	(93121406)
380700.00	4748700.00	32.90173	(93072104)	380700.00	4750700.00	35.90966	(93012722)
380700.00	4752700.00	33.51717	(93030403)	380700.00	4754700.00	15.77068	(93112106)
380700.00	4756700.00	24.53152	(93042604)	380700.00	4758700.00	5.10356	(93032004)
380889.00	4747781.00	36.52046	(93011419)	382700.00	4748700.00	21.41815	(93022604)
382700.00	4750700.00	5.82821	(93112601)	382700.00	4752700.00	5.66850	(93110702)
382700.00	4754700.00	5.29081	(93081403)	382700.00	4756700.00	4.45660	(93121503)
382700.00	4758700.00	17.23037	(93042604)	382800.00	4746400.00	20.73503	(93011419)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G45 ***
INCLUDING SOURCE(S): ASDRYVSC,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	10.91856	(93091224)	360000.00	4750000.00	8.82127	(93071921)
364700.00	4750700.00	11.98917	(93092002)	364700.00	4754700.00	13.19127	(93092505)
366700.00	4756700.00	9.87003	(93092104)	370700.00	4758700.00	11.30956	(93092719)
368700.00	4752700.00	20.93169	(93013023)	372700.00	4756700.00	34.27957	(93100219)
368700.00	4744700.00	4.03845	(93072904)	368700.00	4748700.00	26.37175	(93091224)
376150.00	4752050.00	56.45198	(93030520)	376200.00	4752050.00	41.03708	(93112106)
376250.00	4752050.00	37.98564	(93122401)	376100.00	4752100.00	55.40027	(93121503)
376150.00	4752100.00	42.11130	(93091923)	376250.00	4752100.00	41.91628	(93030520)
376150.00	4752150.00	54.33475	(93121503)	376200.00	4752150.00	40.03284	(93091923)
376250.00	4752150.00	54.38999	(93030520)	374900.00	4751750.00	126.80500	(93030919)
374950.00	4751775.00	134.34530	(93031123)	375000.00	4751790.00	150.07410	(93111023)
375050.00	4751775.00	173.25540	(93111023)	375100.00	4751775.00	172.39240	(93092104)
375050.00	4751800.00	169.53260	(93092104)	375100.00	4751800.00	218.32360	(93122624)
374950.00	4751850.00	158.39430	(93092104)	375000.00	4751850.00	141.59190	(93122604)
375050.00	4751850.00	212.94760	(93122624)	375100.00	4751850.00	247.57690	(93093021)
376400.00	4750490.00	51.33321	(93020406)	376450.00	4750490.00	49.09163	(93020406)
376500.00	4750490.00	46.65146	(93020406)	376400.00	4750540.00	52.76986	(93020406)
376500.00	4750540.00	48.41681	(93112602)	376550.00	4750540.00	46.76532	(93112602)
376400.00	4750590.00	55.04196	(93020406)	376450.00	4750590.00	52.97764	(93112602)
376500.00	4750590.00	50.94695	(93112602)	376450.00	4750640.00	56.11924	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G46 ***
INCLUDING SOURCE(S): ASCOOLCY,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	88.33125	(93030520)	375000.00	4751800.00	171.70740	(93111023)
377900.00	4754300.00	25.03603	(93102302)	377950.00	4751300.00	69.56421	(93122520)
371650.00	4748400.00	10.86871	(93072904)	357000.00	4743000.00	8.55836	(93012006)
376450.00	4750540.00	51.95372	(93020406)	364700.00	4746700.00	16.85549	(93012006)
364700.00	4758700.00	7.08499	(93020501)	366700.00	4742700.00	16.20247	(93092224)
366700.00	4758700.00	9.32585	(93112017)	370700.00	4747700.00	8.01126	(93112518)
370700.00	4748700.00	9.24239	(93021020)	370700.00	4749700.00	39.87695	(93121422)
370700.00	4750700.00	43.46634	(93061901)	370700.00	4751700.00	32.65752	(93012118)
370700.00	4752700.00	31.90545	(93012801)	370700.00	4754700.00	19.85855	(93020501)
371760.00	4750600.00	57.34035	(93030106)	372700.00	4746700.00	7.49318	(93112607)
372700.00	4747700.00	10.71778	(93112607)	372700.00	4748700.00	12.66355	(93112507)
372700.00	4749700.00	86.51273	(93020424)	372700.00	4751700.00	54.20806	(93012118)
372700.00	4752700.00	48.12927	(93031123)	372700.00	4753700.00	50.11788	(93112621)
372700.00	4754700.00	16.05746	(93081720)	373200.00	4749200.00	73.49763	(93092224)
373200.00	4750200.00	104.50780	(93120718)	373200.00	4751200.00	98.88470	(93061901)
373200.00	4752200.00	61.13750	(93092505)	373700.00	4748700.00	17.29722	(93112607)
373700.00	4749700.00	27.37236	(93112507)	373700.00	4751700.00	75.68435	(93042703)
374200.00	4749200.00	23.17418	(93112607)	374200.00	4752200.00	75.10245	(93111104)
374700.00	4748700.00	9.70619	(93112706)	374700.00	4749700.00	38.88580	(93112607)
374700.00	4751700.00	127.09060	(93013023)	374700.00	4752700.00	102.38230	(93092719)
374700.00	4753700.00	78.11057	(93061204)	374700.00	4754700.00	77.05268	(93111406)
375200.00	4749200.00	15.60683	(93112502)	375200.00	4752200.00	263.91830	(93061204)
375700.00	4749700.00	12.77318	(93093018)	375700.00	4751700.00	217.24290	(93081403)
376200.00	4749200.00	12.86354	(93112703)	376300.00	4752400.00	140.15150	(93042604)
376700.00	4749700.00	22.90623	(93020406)	376700.00	4750700.00	48.83727	(93112602)
376700.00	4751700.00	92.92580	(93111002)	376700.00	4752700.00	68.39054	(93093003)
376700.00	4753700.00	83.96867	(93030719)	376700.00	4754700.00	26.85391	(93101404)
376700.00	4758700.00	21.87709	(93072703)	377200.00	4752200.00	70.92384	(93050905)
378700.00	4747700.00	7.25953	(93020406)	378700.00	4748700.00	12.60237	(93112602)
378700.00	4749700.00	15.84049	(93072905)	378700.00	4750700.00	58.56009	(93020405)
378700.00	4751700.00	35.67045	(93121701)	378700.00	4752700.00	44.47244	(93050905)
378700.00	4753700.00	40.21801	(93030520)	378700.00	4754700.00	46.31808	(93042604)
379400.00	4753600.00	48.56792	(93081403)	380700.00	4746700.00	29.35888	(93121406)
380700.00	4748700.00	36.16064	(93072104)	380700.00	4750700.00	40.30334	(93012722)
380700.00	4752700.00	36.03156	(93030403)	380700.00	4754700.00	16.68340	(93112106)
380700.00	4756700.00	26.50205	(93042604)	380700.00	4758700.00	5.75703	(93032004)
380889.00	4747781.00	38.12232	(93011419)	382700.00	4748700.00	22.51610	(93022604)
382700.00	4750700.00	6.05863	(93112601)	382700.00	4752700.00	5.89358	(93110702)
382700.00	4754700.00	5.54157	(93081403)	382700.00	4756700.00	4.63623	(93121503)
382700.00	4758700.00	18.39843	(93042604)	382800.00	4746400.00	22.75981	(93011419)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G46 ***
INCLUDING SOURCE(S): ASCOOLCY,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	11.59075	(93091224)	360000.00	4750000.00	9.42815	(93071921)
364700.00	4750700.00	12.70820	(93092002)	364700.00	4754700.00	13.96227	(93092505)
366700.00	4756700.00	10.77458	(93092104)	370700.00	4758700.00	12.99403	(93092719)
368700.00	4752700.00	22.10582	(93013023)	372700.00	4756700.00	37.48180	(93100219)
368700.00	4744700.00	4.23409	(93070705)	368700.00	4748700.00	28.52013	(93091224)
376150.00	4752050.00	78.17614	(93030520)	376200.00	4752050.00	51.69890	(93112106)
376250.00	4752050.00	48.65429	(93122401)	376100.00	4752100.00	90.48573	(93121503)
376150.00	4752100.00	68.50710	(93030520)	376250.00	4752100.00	54.18554	(93030520)
376150.00	4752150.00	90.58306	(93121503)	376200.00	4752150.00	57.40065	(93121503)
376250.00	4752150.00	82.36698	(93030520)	374900.00	4751750.00	133.30110	(93030919)
374950.00	4751775.00	140.93460	(93031123)	375000.00	4751790.00	159.14320	(93111023)
375050.00	4751775.00	182.74820	(93111023)	375100.00	4751775.00	178.87130	(93092104)
375050.00	4751800.00	176.56280	(93092104)	375100.00	4751800.00	212.94380	(93122624)
374950.00	4751850.00	165.85300	(93092104)	375000.00	4751850.00	147.50640	(93122604)
375050.00	4751850.00	264.55140	(93112621)	375100.00	4751850.00	410.70520	(93093021)
376400.00	4750490.00	53.10760	(93020406)	376450.00	4750490.00	50.78529	(93020406)
376500.00	4750490.00	48.25562	(93020406)	376400.00	4750540.00	54.58133	(93020406)
376500.00	4750540.00	50.06968	(93112602)	376550.00	4750540.00	48.36439	(93112602)
376400.00	4750590.00	56.92499	(93020406)	376450.00	4750590.00	54.78487	(93112602)
376500.00	4750590.00	52.68661	(93112602)	376450.00	4750640.00	58.03581	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G47 ***
INCLUDING SOURCE(S): CEBOILER,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	46.80920	(93030520)	375000.00	4751800.00	281.99940	(93112503)
377900.00	4754300.00	38.80433	(93102302)	377950.00	4751300.00	57.61023	(93030201)
371650.00	4748400.00	43.62379	(93112623)	357000.00	4743000.00	8.02724	(93012006)
376450.00	4750540.00	62.01701	(93020406)	364700.00	4746700.00	15.93738	(93012006)
364700.00	4758700.00	6.62217	(93030119)	366700.00	4742700.00	14.19834	(93092224)
366700.00	4758700.00	7.92109	(93112017)	370700.00	4747700.00	7.06622	(93072904)
370700.00	4748700.00	16.61143	(93040806)	370700.00	4749700.00	32.52781	(93123002)
370700.00	4750700.00	35.36655	(93081705)	370700.00	4751700.00	36.16759	(93072021)
370700.00	4752700.00	34.85900	(93120705)	370700.00	4754700.00	23.92160	(93122604)
371760.00	4750600.00	44.47153	(93081202)	372700.00	4746700.00	8.27368	(93112706)
372700.00	4747700.00	11.65850	(93112507)	372700.00	4748700.00	13.71021	(93112507)
372700.00	4749700.00	65.71861	(93123005)	372700.00	4751700.00	64.45763	(93072021)
372700.00	4752700.00	49.75246	(93081424)	372700.00	4753700.00	36.80186	(93122624)
372700.00	4754700.00	28.99619	(93081720)	373200.00	4749200.00	66.56862	(93122420)
373200.00	4750200.00	80.61383	(93111022)	373200.00	4751200.00	73.28375	(93061901)
373200.00	4752200.00	73.53842	(93112606)	373700.00	4748700.00	18.58589	(93112706)
373700.00	4749700.00	25.89332	(93073005)	373700.00	4751700.00	100.12270	(93072024)
374200.00	4749200.00	24.63693	(93112706)	374200.00	4752200.00	115.67030	(93112619)
374700.00	4748700.00	11.16196	(93112502)	374700.00	4749700.00	31.56347	(93073005)
374700.00	4751700.00	130.72600	(93042703)	374700.00	4752700.00	73.84408	(93111405)
374700.00	4753700.00	47.08625	(93111919)	374700.00	4754700.00	49.96040	(93102518)
375200.00	4749200.00	17.63886	(93112502)	375200.00	4752200.00	104.61020	(93092719)
375700.00	4749700.00	14.73009	(93112703)	375700.00	4751700.00	173.68470	(93122008)
376200.00	4749200.00	15.23184	(93112703)	376300.00	4752400.00	91.21017	(93042604)
376700.00	4749700.00	26.83692	(93020406)	376700.00	4750700.00	59.39640	(93112602)
376700.00	4751700.00	77.70091	(93121701)	376700.00	4752700.00	64.16307	(93093003)
376700.00	4753700.00	70.59618	(93030719)	376700.00	4754700.00	31.38450	(93102201)
376700.00	4758700.00	23.31189	(93072703)	377200.00	4752200.00	65.13985	(93050905)
378700.00	4747700.00	8.48791	(93020406)	378700.00	4748700.00	13.85400	(93091519)
378700.00	4749700.00	57.35136	(93122308)	378700.00	4750700.00	54.70301	(93073104)
378700.00	4751700.00	43.07386	(93121504)	378700.00	4752700.00	43.50271	(93050905)
378700.00	4753700.00	42.82246	(93030520)	378700.00	4754700.00	43.96743	(93042604)
379400.00	4753600.00	40.28399	(93081403)	380700.00	4746700.00	26.15070	(93112523)
380700.00	4748700.00	31.25655	(93072905)	380700.00	4750700.00	36.56551	(93012722)
380700.00	4752700.00	37.96124	(93030403)	380700.00	4754700.00	19.36918	(93112106)
380700.00	4756700.00	24.27756	(93042604)	380700.00	4758700.00	5.87296	(93032004)
380889.00	4747781.00	33.16873	(93020224)	382700.00	4748700.00	25.77816	(93010405)
382700.00	4750700.00	6.52817	(93073104)	382700.00	4752700.00	6.72970	(93021424)
382700.00	4754700.00	4.78590	(93081403)	382700.00	4756700.00	4.87851	(93081403)
382700.00	4758700.00	17.74692	(93042604)	382800.00	4746400.00	20.43876	(93020224)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G47 ***
INCLUDING SOURCE(S): CEBOILER,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	11.28130	(93091224)	360000.00	4750000.00	9.92137	(93071921)
364700.00	4750700.00	14.29299	(93092002)	364700.00	4754700.00	14.09496	(93112503)
366700.00	4756700.00	8.03117	(93112420)	370700.00	4758700.00	12.62985	(93092719)
368700.00	4752700.00	24.07937	(93013023)	372700.00	4756700.00	27.27086	(93020419)
368700.00	4744700.00	19.63880	(93092224)	368700.00	4748700.00	24.81225	(93091224)
376150.00	4752050.00	61.33388	(93030520)	376200.00	4752050.00	45.58685	(93112106)
376250.00	4752050.00	47.41900	(93112106)	376100.00	4752100.00	49.08576	(93030819)
376150.00	4752100.00	62.04929	(93121503)	376250.00	4752100.00	55.75128	(93030520)
376150.00	4752150.00	48.16846	(93093003)	376200.00	4752150.00	59.79305	(93121503)
376250.00	4752150.00	45.74803	(93091923)	374900.00	4751750.00	240.17440	(93052305)
374950.00	4751775.00	261.06530	(93112606)	375000.00	4751790.00	279.08070	(93092005)
375050.00	4751775.00	305.64740	(93092005)	375100.00	4751775.00	328.90910	(93030107)
375050.00	4751800.00	296.94100	(93050524)	375100.00	4751800.00	319.53590	(93082804)
374950.00	4751850.00	251.73510	(93082804)	375000.00	4751850.00	234.41490	(93081424)
375050.00	4751850.00	292.81280	(93112619)	375100.00	4751850.00	316.35740	(93092419)
376400.00	4750490.00	62.85084	(93020406)	376450.00	4750490.00	60.32939	(93020406)
376500.00	4750490.00	57.54649	(93020406)	376400.00	4750540.00	64.89668	(93020406)
376500.00	4750540.00	59.73092	(93020406)	376550.00	4750540.00	57.83212	(93020406)
376400.00	4750590.00	67.95730	(93020406)	376450.00	4750590.00	65.38423	(93020406)
376500.00	4750590.00	63.05410	(93020406)	376450.00	4750640.00	69.49172	(93020406)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G48 ***
INCLUDING SOURCE(S): FWBOILER,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	48.39536	(93072820)	375000.00	4751800.00	183.22490	(93112503)
377900.00	4754300.00	34.74447	(93102302)	377950.00	4751300.00	40.86646	(93020418)
371650.00	4748400.00	32.77822	(93112506)	357000.00	4743000.00	6.91373	(93021404)
376450.00	4750540.00	63.64077	(93112523)	364700.00	4746700.00	14.86653	(93123007)
364700.00	4758700.00	5.40180	(93030119)	366700.00	4742700.00	12.48233	(93121317)
366700.00	4758700.00	5.53255	(93112017)	370700.00	4747700.00	26.87970	(93112918)
370700.00	4748700.00	29.15804	(93012806)	370700.00	4749700.00	31.76820	(93123002)
370700.00	4750700.00	31.63139	(93012204)	370700.00	4751700.00	28.83309	(93101103)
370700.00	4752700.00	27.36909	(93120705)	370700.00	4754700.00	16.11709	(93122604)
371760.00	4750600.00	37.51581	(93021021)	372700.00	4746700.00	8.54934	(93112706)
372700.00	4747700.00	11.84215	(93093023)	372700.00	4748700.00	14.16113	(93112506)
372700.00	4749700.00	44.81387	(93123005)	372700.00	4751700.00	50.34698	(93012105)
372700.00	4752700.00	39.69736	(93081424)	372700.00	4753700.00	25.33561	(93082505)
372700.00	4754700.00	25.58691	(93081720)	373200.00	4749200.00	46.06498	(93122420)
373200.00	4750200.00	53.07307	(93120523)	373200.00	4751200.00	59.25041	(93012204)
373200.00	4752200.00	55.10654	(93112606)	373700.00	4748700.00	19.07167	(93011408)
373700.00	4749700.00	26.18514	(93122418)	373700.00	4751700.00	75.20282	(93013022)
374200.00	4749200.00	25.40190	(93112706)	374200.00	4752200.00	81.52133	(93122403)
374700.00	4748700.00	11.81894	(93112502)	374700.00	4749700.00	19.13077	(93032919)
374700.00	4751700.00	142.56270	(93123004)	374700.00	4752700.00	66.50754	(93111405)
374700.00	4753700.00	42.61415	(93111919)	374700.00	4754700.00	46.21973	(93102518)
375200.00	4749200.00	18.52491	(93112502)	375200.00	4752200.00	107.48020	(93092402)
375700.00	4749700.00	15.96721	(93112703)	375700.00	4751700.00	200.68270	(93122008)
376200.00	4749200.00	16.06752	(93112703)	376300.00	4752400.00	44.04085	(93042604)
376700.00	4749700.00	27.76696	(93020406)	376700.00	4750700.00	60.89649	(93112523)
376700.00	4751700.00	43.71780	(93030505)	376700.00	4752700.00	35.67675	(93050921)
376700.00	4753700.00	9.89447	(93052923)	376700.00	4754700.00	5.84477	(93030501)
376700.00	4758700.00	21.59722	(93072703)	377200.00	4752200.00	69.41885	(93050905)
378700.00	4747700.00	8.79988	(93112523)	378700.00	4748700.00	17.91071	(93112501)
378700.00	4749700.00	41.76010	(93012124)	378700.00	4750700.00	30.33801	(93042002)
378700.00	4751700.00	30.71992	(93021604)	378700.00	4752700.00	46.32994	(93050905)
378700.00	4753700.00	28.20210	(93030520)	378700.00	4754700.00	31.98661	(93042604)
379400.00	4753600.00	30.46596	(93081403)	380700.00	4746700.00	20.57139	(93112523)
380700.00	4748700.00	23.50035	(93012106)	380700.00	4750700.00	27.15444	(93012722)
380700.00	4752700.00	26.81460	(93030403)	380700.00	4754700.00	20.00354	(93112106)
380700.00	4756700.00	18.94054	(93042604)	380700.00	4758700.00	5.38311	(93032004)
380889.00	4747781.00	25.69679	(93020224)	382700.00	4748700.00	20.37867	(93032506)
382700.00	4750700.00	5.65541	(93073104)	382700.00	4752700.00	6.14387	(93050920)
382700.00	4754700.00	21.51681	(93062902)	382700.00	4756700.00	4.25682	(93092019)
382700.00	4758700.00	15.03320	(93042604)	382800.00	4746400.00	16.45578	(93020224)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G48 ***
INCLUDING SOURCE(S): FWBOILER,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	10.40545	(93092004)	360000.00	4750000.00	9.20614	(93020104)
364700.00	4750700.00	13.46336	(93092002)	364700.00	4754700.00	11.91517	(93112503)
366700.00	4756700.00	5.39870	(93112420)	370700.00	4758700.00	10.51200	(93092719)
368700.00	4752700.00	19.33289	(93013023)	372700.00	4756700.00	25.87088	(93020419)
368700.00	4744700.00	16.35092	(93122420)	368700.00	4748700.00	21.11116	(93092004)
376150.00	4752050.00	58.20205	(93072820)	376200.00	4752050.00	44.60427	(93063023)
376250.00	4752050.00	42.36184	(93063023)	376100.00	4752100.00	48.67095	(93030819)
376150.00	4752100.00	48.70907	(93111518)	376250.00	4752100.00	45.95377	(93072820)
376150.00	4752150.00	47.00645	(93030819)	376200.00	4752150.00	50.11229	(93111518)
376250.00	4752150.00	41.00109	(93042423)	374900.00	4751750.00	160.74720	(93112004)
374950.00	4751775.00	172.87190	(93032604)	375000.00	4751790.00	188.52650	(93092206)
375050.00	4751775.00	205.57250	(93092206)	375100.00	4751775.00	211.46610	(93112503)
375050.00	4751800.00	200.74800	(93122105)	375100.00	4751800.00	213.50150	(93110906)
374950.00	4751850.00	166.76710	(93031124)	375000.00	4751850.00	182.27600	(93033106)
375050.00	4751850.00	191.67930	(93020307)	375100.00	4751850.00	213.16280	(93041705)
376400.00	4750490.00	64.46368	(93112523)	376450.00	4750490.00	61.89991	(93112523)
376500.00	4750490.00	59.07763	(93112523)	376400.00	4750540.00	66.56481	(93112523)
376500.00	4750540.00	61.30814	(93112523)	376550.00	4750540.00	59.36203	(93112523)
376400.00	4750590.00	69.67648	(93112523)	376450.00	4750590.00	67.05238	(93112523)
376500.00	4750590.00	64.67159	(93112523)	376450.00	4750640.00	71.20069	(93112523)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G49 ***
INCLUDING SOURCE(S): KEBOILER,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	43.21468	(93072820)	375000.00	4751800.00	154.76440	(93122707)
377900.00	4754300.00	7.88073	(93041903)	377950.00	4751300.00	34.06755	(93122924)
371650.00	4748400.00	31.35602	(93112506)	357000.00	4743000.00	6.43639	(93012006)
376450.00	4750540.00	63.60046	(93020406)	364700.00	4746700.00	13.39251	(93012006)
364700.00	4758700.00	5.42733	(93030119)	366700.00	4742700.00	6.99253	(93102403)
366700.00	4758700.00	6.14968	(93112621)	370700.00	4747700.00	25.58404	(93112918)
370700.00	4748700.00	27.36952	(93111022)	370700.00	4749700.00	22.00352	(93123002)
370700.00	4750700.00	28.08359	(93012204)	370700.00	4751700.00	25.04753	(93122421)
370700.00	4752700.00	24.14359	(93120705)	370700.00	4754700.00	18.16417	(93122604)
371760.00	4750600.00	23.71334	(93122405)	372700.00	4746700.00	8.57630	(93112706)
372700.00	4747700.00	11.77878	(93011408)	372700.00	4748700.00	14.18186	(93112507)
372700.00	4749700.00	40.70470	(93123005)	372700.00	4751700.00	42.64981	(93101103)
372700.00	4752700.00	34.21265	(93081424)	372700.00	4753700.00	27.35564	(93122624)
372700.00	4754700.00	9.74989	(93070803)	373200.00	4749200.00	11.51847	(93032822)
373200.00	4750200.00	50.56840	(93021218)	373200.00	4751200.00	50.97952	(93012204)
373200.00	4752200.00	47.10527	(93112604)	373700.00	4748700.00	18.92905	(93070705)
373700.00	4749700.00	16.22942	(93073005)	373700.00	4751700.00	62.99619	(93012105)
374200.00	4749200.00	25.33869	(93112706)	374200.00	4752200.00	69.62573	(93122403)
374700.00	4748700.00	11.88005	(93112502)	374700.00	4749700.00	16.66896	(93071321)
374700.00	4751700.00	110.88940	(93121419)	374700.00	4752700.00	43.87905	(93080305)
374700.00	4753700.00	35.33711	(93111919)	374700.00	4754700.00	55.24374	(93102518)
375200.00	4749200.00	18.55040	(93112502)	375200.00	4752200.00	200.58820	(93092719)
375700.00	4749700.00	16.07720	(93112703)	375700.00	4751700.00	155.66760	(93101218)
376200.00	4749200.00	16.14716	(93112703)	376300.00	4752400.00	45.97620	(93050921)
376700.00	4749700.00	27.82870	(93020406)	376700.00	4750700.00	61.07471	(93112602)
376700.00	4751700.00	35.59915	(93092922)	376700.00	4752700.00	36.79513	(93050921)
376700.00	4753700.00	8.07555	(93052923)	376700.00	4754700.00	4.85259	(93030501)
376700.00	4758700.00	22.73408	(93072703)	377200.00	4752200.00	41.67469	(93020506)
378700.00	4747700.00	8.85788	(93020406)	378700.00	4748700.00	18.33863	(93112501)
378700.00	4749700.00	39.96833	(93012124)	378700.00	4750700.00	25.73101	(93121103)
378700.00	4751700.00	25.55776	(93021604)	378700.00	4752700.00	30.87471	(93050905)
378700.00	4753700.00	21.64372	(93030520)	378700.00	4754700.00	26.90723	(93042604)
379400.00	4753600.00	27.02495	(93081403)	380700.00	4746700.00	21.50571	(93112523)
380700.00	4748700.00	20.38063	(93102106)	380700.00	4750700.00	22.68729	(93012722)
380700.00	4752700.00	28.51270	(93021424)	380700.00	4754700.00	16.92976	(93112106)
380700.00	4756700.00	16.77636	(93042604)	380700.00	4758700.00	1.66369	(93011402)
380889.00	4747781.00	27.99000	(93020224)	382700.00	4748700.00	20.27921	(93010405)
382700.00	4750700.00	21.04306	(93122520)	382700.00	4752700.00	5.90174	(93082524)
382700.00	4754700.00	18.46324	(93062902)	382700.00	4756700.00	14.16720	(93030520)
382700.00	4758700.00	13.90810	(93042604)	382800.00	4746400.00	17.07877	(93020224)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G49 ***
INCLUDING SOURCE(S): KEBOILER,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	8.99037	(93092004)	360000.00	4750000.00	9.03563	(93020104)
364700.00	4750700.00	11.91076	(93092002)	364700.00	4754700.00	10.77221	(93112503)
366700.00	4756700.00	5.97606	(93112420)	370700.00	4758700.00	9.91333	(93092719)
368700.00	4752700.00	16.84575	(93013023)	372700.00	4756700.00	24.98379	(93020419)
368700.00	4744700.00	8.34686	(93092224)	368700.00	4748700.00	15.06297	(93092004)
376150.00	4752050.00	43.04513	(93072820)	376200.00	4752050.00	39.33086	(93063023)
376250.00	4752050.00	43.75034	(93060421)	376100.00	4752100.00	40.53035	(93111518)
376150.00	4752100.00	34.37712	(93091923)	376250.00	4752100.00	29.97908	(93063023)
376150.00	4752150.00	42.39462	(93100523)	376200.00	4752150.00	36.91534	(93111518)
376250.00	4752150.00	35.05556	(93042423)	374900.00	4751750.00	137.76290	(93122019)
374950.00	4751775.00	145.44910	(93121823)	375000.00	4751790.00	156.21020	(93020521)
375050.00	4751775.00	170.51630	(93020521)	375100.00	4751775.00	184.96500	(93122707)
375050.00	4751800.00	163.18000	(93092206)	375100.00	4751800.00	168.21150	(93122105)
374950.00	4751850.00	137.68390	(93122105)	375000.00	4751850.00	145.82030	(93031124)
375050.00	4751850.00	162.23060	(93033106)	375100.00	4751850.00	169.24750	(93020307)
376400.00	4750490.00	64.36349	(93020406)	376450.00	4750490.00	61.84532	(93020406)
376500.00	4750490.00	59.06629	(93020406)	376400.00	4750540.00	66.47478	(93020406)
376500.00	4750540.00	61.30790	(93020406)	376550.00	4750540.00	59.39489	(93020406)
376400.00	4750590.00	69.59190	(93020406)	376450.00	4750590.00	67.01668	(93020406)
376500.00	4750590.00	64.67778	(93020406)	376450.00	4750640.00	71.16889	(93020406)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G50 ***
INCLUDING SOURCE(S): H2ONTWR ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.76660	(93092901)	375000.00	4751800.00	5.56362	(93082017)
377900.00	4754300.00	2.93559	(93090221)	377950.00	4751300.00	5.98219	(93052220)
371650.00	4748400.00	10.56502	(93081423)	357000.00	4743000.00	1.67556	(93081203)
376450.00	4750540.00	88.61645	(93061104)	364700.00	4746700.00	5.27634	(93072624)
364700.00	4758700.00	1.97980	(93071922)	366700.00	4742700.00	7.02888	(93091119)
366700.00	4758700.00	3.23542	(93091219)	370700.00	4747700.00	8.93540	(93081423)
370700.00	4748700.00	6.48752	(93080320)	370700.00	4749700.00	8.92088	(93080320)
370700.00	4750700.00	5.87456	(93072923)	370700.00	4751700.00	6.14949	(93072021)
370700.00	4752700.00	6.41064	(93080424)	370700.00	4754700.00	5.33662	(93071922)
371760.00	4750600.00	6.02369	(93072824)	372700.00	4746700.00	9.37436	(93092802)
372700.00	4747700.00	10.97813	(93072020)	372700.00	4748700.00	14.67201	(93072705)
372700.00	4749700.00	13.65246	(93080320)	372700.00	4751700.00	6.56549	(93082523)
372700.00	4752700.00	5.38522	(93081424)	372700.00	4753700.00	4.93237	(93061921)
372700.00	4754700.00	3.20069	(93100419)	373200.00	4749200.00	11.91551	(93052520)
373200.00	4750200.00	18.58270	(93080320)	373200.00	4751200.00	8.53777	(93072923)
373200.00	4752200.00	5.97037	(93081820)	373700.00	4748700.00	16.08501	(93071321)
373700.00	4749700.00	20.02129	(93091119)	373700.00	4751700.00	8.16238	(93080805)
374200.00	4749200.00	25.73545	(93073005)	374200.00	4752200.00	7.13683	(93081722)
374700.00	4748700.00	17.52472	(93112607)	374700.00	4749700.00	24.15628	(93071321)
374700.00	4751700.00	3.48011	(93081011)	374700.00	4752700.00	5.76325	(93081022)
374700.00	4753700.00	5.13155	(93080921)	374700.00	4754700.00	2.99689	(93041616)
375200.00	4749200.00	26.83558	(93112706)	375200.00	4752200.00	12.04083	(93082123)
375700.00	4749700.00	28.56867	(93112502)	375700.00	4751700.00	175.95960	(93061220)
376200.00	4749200.00	25.39748	(93112703)	376300.00	4752400.00	10.39261	(93062218)
376700.00	4749700.00	40.77974	(93122505)	376700.00	4750700.00	84.33004	(93082603)
376700.00	4751700.00	9.01300	(93051219)	376700.00	4752700.00	6.22333	(93042315)
376700.00	4753700.00	5.05435	(93092519)	376700.00	4754700.00	2.59204	(93062021)
376700.00	4758700.00	6.29711	(93080920)	377200.00	4752200.00	7.28702	(93042120)
378700.00	4747700.00	12.00498	(93112523)	378700.00	4748700.00	11.76692	(93090519)
378700.00	4749700.00	15.87518	(93090519)	378700.00	4750700.00	6.26402	(93073001)
378700.00	4751700.00	6.15412	(93071724)	378700.00	4752700.00	4.21744	(93042120)
378700.00	4753700.00	4.61287	(93080605)	378700.00	4754700.00	3.89525	(93051101)
379400.00	4753600.00	8.86085	(93063023)	380700.00	4746700.00	3.66045	(93080603)
380700.00	4748700.00	3.66644	(93071424)	380700.00	4750700.00	5.43258	(93071003)
380700.00	4752700.00	4.07865	(93050920)	380700.00	4754700.00	5.85000	(93072820)
380700.00	4756700.00	1.77817	(93051101)	380700.00	4758700.00	.87895	(93090822)
380889.00	4747781.00	7.14812	(93090519)	382700.00	4748700.00	4.01566	(93080403)
382700.00	4750700.00	4.25711	(93073104)	382700.00	4752700.00	8.65362	(93050920)
382700.00	4754700.00	11.68244	(93092019)	382700.00	4756700.00	3.16324	(93091923)
382700.00	4758700.00	1.63662	(93081505)	382800.00	4746400.00	4.11580	(93090519)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G50 ***
INCLUDING SOURCE(S): H2ONTWR ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	3.60884	(93072624)	360000.00	4750000.00	4.17451	(93071921)
364700.00	4750700.00	3.78521	(93073021)	364700.00	4754700.00	2.68286	(93071322)
366700.00	4756700.00	1.92994	(93051120)	370700.00	4758700.00	1.57413	(93092719)
368700.00	4752700.00	4.96462	(93073101)	372700.00	4756700.00	6.83163	(93090224)
368700.00	4744700.00	7.82749	(93091119)	368700.00	4748700.00	4.83168	(93061721)
376150.00	4752050.00	8.63394	(93072715)	376200.00	4752050.00	7.70494	(93042315)
376250.00	4752050.00	4.83602	(93042318)	376100.00	4752100.00	7.72155	(93062218)
376150.00	4752100.00	8.79112	(93072715)	376250.00	4752100.00	7.32284	(93042315)
376150.00	4752150.00	7.64136	(93062218)	376200.00	4752150.00	8.68973	(93072715)
376250.00	4752150.00	7.65799	(93042315)	374900.00	4751750.00	4.38375	(93081011)
374950.00	4751775.00	3.98125	(93082017)	375000.00	4751790.00	5.25457	(93082017)
375050.00	4751775.00	5.42520	(93082017)	375100.00	4751775.00	6.01714	(93082017)
375050.00	4751800.00	6.11680	(93082017)	375100.00	4751800.00	6.83216	(93062119)
374950.00	4751850.00	6.23633	(93062119)	375000.00	4751850.00	7.53148	(93062119)
375050.00	4751850.00	8.21088	(93062119)	375100.00	4751850.00	7.78285	(93062119)
376400.00	4750490.00	87.07563	(93092120)	376450.00	4750490.00	84.52424	(93082903)
376500.00	4750490.00	81.95874	(93072005)	376400.00	4750540.00	91.46471	(93061104)
376500.00	4750540.00	85.76490	(93072005)	376550.00	4750540.00	82.93106	(93061104)
376400.00	4750590.00	96.13698	(93082903)	376450.00	4750590.00	92.95292	(93061104)
376500.00	4750590.00	89.78010	(93082903)	376450.00	4750640.00	97.54094	(93092120)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G51 ***
INCLUDING SOURCE(S): H2OETWR ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	2.37026	(93061208)	375000.00	4751800.00	3.90083	(93082017)
377900.00	4754300.00	2.17280	(93070322)	377950.00	4751300.00	3.30911	(93061315)
371650.00	4748400.00	6.30175	(93081423)	357000.00	4743000.00	1.68829	(93072624)
376450.00	4750540.00	94.58270	(93092120)	364700.00	4746700.00	4.93912	(93072624)
364700.00	4758700.00	1.55275	(93071922)	366700.00	4742700.00	5.36998	(93091119)
366700.00	4758700.00	2.83376	(93091219)	370700.00	4747700.00	5.64812	(93081423)
370700.00	4748700.00	6.74484	(93080320)	370700.00	4749700.00	6.16632	(93080320)
370700.00	4750700.00	5.55955	(93072923)	370700.00	4751700.00	3.68354	(93072021)
370700.00	4752700.00	4.85407	(93080424)	370700.00	4754700.00	3.98058	(93071922)
371760.00	4750600.00	3.40547	(93072824)	372700.00	4746700.00	9.40969	(93072705)
372700.00	4747700.00	10.66144	(93071321)	372700.00	4748700.00	14.57272	(93072904)
372700.00	4749700.00	14.17735	(93080320)	372700.00	4751700.00	5.80838	(93082523)
372700.00	4752700.00	3.69783	(93060320)	372700.00	4753700.00	4.32848	(93061921)
372700.00	4754700.00	2.56072	(93100419)	373200.00	4749200.00	11.59909	(93072020)
373200.00	4750200.00	19.24087	(93080320)	373200.00	4751200.00	5.61512	(93072923)
373200.00	4752200.00	4.23909	(93072120)	373700.00	4748700.00	17.19987	(93071321)
373700.00	4749700.00	15.70557	(93091119)	373700.00	4751700.00	6.21890	(93080805)
374200.00	4749200.00	23.01966	(93071321)	374200.00	4752200.00	5.75036	(93081722)
374700.00	4748700.00	19.07700	(93112607)	374700.00	4749700.00	22.54106	(93072020)
374700.00	4751700.00	2.95993	(93081007)	374700.00	4752700.00	3.69149	(93081022)
374700.00	4753700.00	3.79930	(93080921)	374700.00	4754700.00	2.39125	(93041620)
375200.00	4749200.00	29.22131	(93112706)	375200.00	4752200.00	4.82508	(93082123)
375700.00	4749700.00	32.30386	(93112502)	375700.00	4751700.00	183.38970	(93061821)
376200.00	4749200.00	28.08748	(93112703)	376300.00	4752400.00	4.65553	(93062218)
376700.00	4749700.00	42.39345	(93011819)	376700.00	4750700.00	83.65297	(93090805)
376700.00	4751700.00	5.67589	(93062612)	376700.00	4752700.00	3.56298	(93072715)
376700.00	4753700.00	3.35827	(93041917)	376700.00	4754700.00	2.35288	(93041618)
376700.00	4758700.00	5.28305	(93080920)	377200.00	4752200.00	4.55570	(93071008)
378700.00	4747700.00	12.20680	(93011901)	378700.00	4748700.00	12.51382	(93090519)
378700.00	4749700.00	16.92876	(93090519)	378700.00	4750700.00	4.70692	(93073001)
378700.00	4751700.00	3.94865	(93071724)	378700.00	4752700.00	5.22593	(93042120)
378700.00	4753700.00	3.60442	(93080605)	378700.00	4754700.00	3.76566	(93051101)
379400.00	4753600.00	8.50680	(93063023)	380700.00	4746700.00	3.16340	(93080603)
380700.00	4748700.00	6.42448	(93071920)	380700.00	4750700.00	2.54480	(93071003)
380700.00	4752700.00	3.80719	(93081421)	380700.00	4754700.00	5.70620	(93072820)
380700.00	4756700.00	1.89911	(93051101)	380700.00	4758700.00	.70806	(93080622)
380889.00	4747781.00	7.16300	(93090519)	382700.00	4748700.00	3.39698	(93071422)
382700.00	4750700.00	3.51071	(93080802)	382700.00	4752700.00	7.80897	(93050920)
382700.00	4754700.00	9.15898	(93092019)	382700.00	4756700.00	2.80020	(93063023)
382700.00	4758700.00	1.29398	(93081505)	382800.00	4746400.00	3.13397	(93090519)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G51 ***
INCLUDING SOURCE(S): H2OETWR ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	3.19064	(93072624)	360000.00	4750000.00	3.85388	(93073021)
364700.00	4750700.00	3.01214	(93073021)	364700.00	4754700.00	2.40494	(93072120)
366700.00	4756700.00	1.53306	(93070122)	370700.00	4758700.00	1.37302	(93082205)
368700.00	4752700.00	4.22668	(93073101)	372700.00	4756700.00	5.50890	(93090224)
368700.00	4744700.00	5.44471	(93091119)	368700.00	4748700.00	4.13553	(93061721)
376150.00	4752050.00	2.32731	(93061208)	376200.00	4752050.00	2.45225	(93061208)
376250.00	4752050.00	2.39295	(93061208)	376100.00	4752100.00	2.58615	(93081216)
376150.00	4752100.00	2.17324	(93061208)	376250.00	4752100.00	2.40027	(93061208)
376150.00	4752150.00	2.11850	(93050416)	376200.00	4752150.00	2.38037	(93090816)
376250.00	4752150.00	2.53090	(93090816)	374900.00	4751750.00	3.02369	(93090616)
374950.00	4751775.00	3.29592	(93082017)	375000.00	4751790.00	3.81246	(93082017)
375050.00	4751775.00	3.82917	(93082017)	375100.00	4751775.00	3.95071	(93081013)
375050.00	4751800.00	4.20583	(93062119)	375100.00	4751800.00	4.38892	(93062119)
374950.00	4751850.00	4.82764	(93062119)	375000.00	4751850.00	4.97980	(93062119)
375050.00	4751850.00	4.55473	(93062119)	375100.00	4751850.00	3.88574	(93081012)
376400.00	4750490.00	92.68839	(93091519)	376450.00	4750490.00	90.04072	(93092120)
376500.00	4750490.00	87.23898	(93082903)	376400.00	4750540.00	96.82858	(93091519)
376500.00	4750540.00	91.45499	(93082903)	376550.00	4750540.00	88.34202	(93082903)
376400.00	4750590.00	102.50510	(93091519)	376450.00	4750590.00	98.52100	(93091519)
376500.00	4750590.00	95.91142	(93092120)	376450.00	4750640.00	104.52210	(93091519)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: GS2 ***
INCLUDING SOURCE(S): H2OWTWR ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	2.40638	(93061208)	375000.00	4751800.00	3.85270	(93082017)
377900.00	4754300.00	2.10712	(93090221)	377950.00	4751300.00	3.19831	(93061315)
371650.00	4748400.00	7.22202	(93081423)	357000.00	4743000.00	1.55074	(93072624)
376450.00	4750540.00	91.56753	(93092120)	364700.00	4746700.00	4.73887	(93072624)
364700.00	4758700.00	1.45013	(93071922)	366700.00	4742700.00	5.58959	(93091119)
366700.00	4758700.00	2.82162	(93091219)	370700.00	4747700.00	6.34732	(93081423)
370700.00	4748700.00	6.51044	(93080320)	370700.00	4749700.00	6.17078	(93080320)
370700.00	4750700.00	5.27742	(93072923)	370700.00	4751700.00	3.64493	(93072021)
370700.00	4752700.00	4.60778	(93080424)	370700.00	4754700.00	3.75531	(93071922)
371760.00	4750600.00	3.62694	(93072824)	372700.00	4746700.00	9.37170	(93072705)
372700.00	4747700.00	10.24430	(93071321)	372700.00	4748700.00	14.52532	(93072904)
372700.00	4749700.00	13.73405	(93080320)	372700.00	4751700.00	5.57656	(93082523)
372700.00	4752700.00	3.52364	(93060320)	372700.00	4753700.00	4.24015	(93061921)
372700.00	4754700.00	2.46532	(93100419)	373200.00	4749200.00	11.40591	(93072020)
373200.00	4750200.00	18.70808	(93080320)	373200.00	4751200.00	5.70753	(93072923)
373200.00	4752200.00	4.07711	(93072120)	373700.00	4748700.00	16.54670	(93091119)
373700.00	4749700.00	15.22432	(93091119)	373700.00	4751700.00	5.98607	(93080805)
374200.00	4749200.00	22.16089	(93091119)	374200.00	4752200.00	5.39938	(93081722)
374700.00	4748700.00	19.17152	(93112607)	374700.00	4749700.00	22.14171	(93072020)
374700.00	4751700.00	3.04479	(93081007)	374700.00	4752700.00	3.27783	(93081022)
374700.00	4753700.00	4.11287	(93080921)	374700.00	4754700.00	2.37664	(93041616)
375200.00	4749200.00	29.30051	(93112706)	375200.00	4752200.00	4.69648	(93051507)
375700.00	4749700.00	32.22881	(93112502)	375700.00	4751700.00	158.35010	(93061220)
376200.00	4749200.00	27.90325	(93112703)	376300.00	4752400.00	4.65837	(93062218)
376700.00	4749700.00	41.66670	(93121420)	376700.00	4750700.00	80.87405	(93071424)
376700.00	4751700.00	5.25360	(93062612)	376700.00	4752700.00	3.45476	(93042315)
376700.00	4753700.00	3.23642	(93041917)	376700.00	4754700.00	2.20775	(93041619)
376700.00	4758700.00	4.96565	(93080920)	377200.00	4752200.00	4.54388	(93042120)
378700.00	4747700.00	12.10274	(93011901)	378700.00	4748700.00	11.86713	(93090519)
378700.00	4749700.00	15.99949	(93090519)	378700.00	4750700.00	4.52134	(93073001)
378700.00	4751700.00	4.03789	(93071724)	378700.00	4752700.00	4.35672	(93042120)
378700.00	4753700.00	3.53813	(93080605)	378700.00	4754700.00	3.37275	(93051101)
379400.00	4753600.00	7.46120	(93063023)	380700.00	4746700.00	3.00303	(93080603)
380700.00	4748700.00	6.03160	(93071920)	380700.00	4750700.00	2.45939	(93071003)
380700.00	4752700.00	3.41964	(93081421)	380700.00	4754700.00	5.02085	(93072820)
380700.00	4756700.00	1.66270	(93051101)	380700.00	4758700.00	.71473	(93080622)
380889.00	4747781.00	6.81501	(93090519)	382700.00	4748700.00	3.32887	(93071422)
382700.00	4750700.00	3.38416	(93080802)	382700.00	4752700.00	7.41434	(93050920)
382700.00	4754700.00	9.10191	(93092019)	382700.00	4756700.00	2.68429	(93080605)
382700.00	4758700.00	1.35237	(93081505)	382800.00	4746400.00	2.78914	(93090519)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G52 ***
INCLUDING SOURCE(S): H2OWTWR ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	3.12371	(93072624)	360000.00	4750000.00	3.66124	(93073021)
364700.00	4750700.00	2.94487	(93073021)	364700.00	4754700.00	2.34341	(93072120)
366700.00	4756700.00	1.47384	(93070122)	370700.00	4758700.00	1.36579	(93082205)
368700.00	4752700.00	4.01382	(93073101)	372700.00	4756700.00	5.12939	(93090224)
368700.00	4744700.00	5.88539	(93091119)	368700.00	4748700.00	3.84292	(93061721)
376150.00	4752050.00	2.43365	(93061208)	376200.00	4752050.00	2.40727	(93061208)
376250.00	4752050.00	2.41100	(93070105)	376100.00	4752100.00	2.27417	(93081216)
376150.00	4752100.00	2.34375	(93061208)	376250.00	4752100.00	2.31451	(93061208)
376150.00	4752150.00	2.19906	(93090816)	376200.00	4752150.00	2.46372	(93090816)
376250.00	4752150.00	2.30654	(93061208)	374900.00	4751750.00	3.08042	(93090616)
374950.00	4751775.00	3.30776	(93082017)	375000.00	4751790.00	3.77829	(93082017)
375050.00	4751775.00	3.75720	(93082017)	375100.00	4751775.00	3.85142	(93081013)
375050.00	4751800.00	3.95602	(93081013)	375100.00	4751800.00	3.85550	(93081013)
374950.00	4751850.00	4.55224	(93062119)	375000.00	4751850.00	4.50087	(93062119)
375050.00	4751850.00	3.95462	(93081012)	375100.00	4751850.00	3.65869	(93081012)
376400.00	4750490.00	90.04544	(93091519)	376450.00	4750490.00	86.50305	(93091519)
376500.00	4750490.00	84.55233	(93082903)	376400.00	4750540.00	94.00198	(93091519)
376500.00	4750540.00	88.50745	(93082903)	376550.00	4750540.00	85.47479	(93082903)
376400.00	4750590.00	99.34722	(93091519)	376450.00	4750590.00	95.44278	(93091519)
376500.00	4750590.00	91.82639	(93091519)	376450.00	4750640.00	100.85480	(93091519)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G53 ***
INCLUDING SOURCE(S): AMMONIA1,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	39.24615	(93093003)	375000.00	4751800.00	28.12533	(93101902)
377900.00	4754300.00	24.70014	(93102302)	377950.00	4751300.00	13.23783	(93112104)
371650.00	4748400.00	33.30089	(93112918)	357000.00	4743000.00	6.21117	(93012006)
376450.00	4750540.00	72.27976	(93020406)	364700.00	4746700.00	11.85712	(93123007)
364700.00	4758700.00	2.11728	(93060321)	366700.00	4742700.00	10.70308	(93122420)
366700.00	4758700.00	2.37839	(93091219)	370700.00	4747700.00	28.08640	(93072904)
370700.00	4748700.00	26.90016	(93111022)	370700.00	4749700.00	23.03321	(93120517)
370700.00	4750700.00	9.38159	(93110205)	370700.00	4751700.00	9.37577	(93112803)
370700.00	4752700.00	8.02435	(93120724)	370700.00	4754700.00	6.21726	(93072001)
371760.00	4750600.00	15.55115	(93021021)	372700.00	4746700.00	9.28684	(93112706)
372700.00	4747700.00	10.94653	(93073005)	372700.00	4748700.00	15.54274	(93112507)
372700.00	4749700.00	48.05133	(93120523)	372700.00	4751700.00	11.74120	(93012421)
372700.00	4752700.00	10.32795	(93101602)	372700.00	4753700.00	8.39660	(93081503)
372700.00	4754700.00	2.28235	(93022022)	373200.00	4749200.00	39.01961	(93091119)
373200.00	4750200.00	62.40704	(93083103)	373200.00	4751200.00	13.57114	(93102907)
373200.00	4752200.00	11.48356	(93081021)	373700.00	4748700.00	18.71077	(93073005)
373700.00	4749700.00	50.72015	(93092224)	373700.00	4751700.00	14.06307	(93041822)
374200.00	4749200.00	28.60720	(93093023)	374200.00	4752200.00	12.21132	(93082821)
374700.00	4748700.00	13.76605	(93112502)	374700.00	4749700.00	83.96951	(93112706)
374700.00	4751700.00	13.44743	(93050701)	374700.00	4752700.00	3.67743	(93052616)
374700.00	4753700.00	2.87932	(93041620)	374700.00	4754700.00	4.90231	(93092219)
375200.00	4749200.00	21.82543	(93112502)	375200.00	4752200.00	6.21586	(93040118)
375700.00	4749700.00	19.94658	(93112703)	375700.00	4751700.00	149.92370	(93050901)
376200.00	4749200.00	18.69481	(93112703)	376300.00	4752400.00	63.81168	(93102302)
376700.00	4749700.00	31.25014	(93020406)	376700.00	4750700.00	66.71848	(93112524)
376700.00	4751700.00	12.71215	(93021607)	376700.00	4752700.00	28.65475	(93042604)
376700.00	4753700.00	31.38123	(93102618)	376700.00	4754700.00	24.44784	(93102201)
376700.00	4758700.00	3.79106	(93072703)	377200.00	4752200.00	46.71777	(93062902)
378700.00	4747700.00	9.45772	(93020406)	378700.00	4748700.00	8.65330	(93091803)
378700.00	4749700.00	8.55087	(93072104)	378700.00	4750700.00	3.67583	(93100903)
378700.00	4751700.00	11.08797	(93030505)	378700.00	4752700.00	17.90693	(93050905)
378700.00	4753700.00	26.13309	(93030520)	378700.00	4754700.00	22.03139	(93042604)
379400.00	4753600.00	20.94363	(93122401)	380700.00	4746700.00	4.44465	(93121406)
380700.00	4748700.00	4.68713	(93082704)	380700.00	4750700.00	4.50787	(93030203)
380700.00	4752700.00	10.67601	(93031806)	380700.00	4754700.00	13.06124	(93112106)
380700.00	4756700.00	13.55850	(93042604)	380700.00	4758700.00	3.93278	(93110820)
380889.00	4747781.00	8.23155	(93081404)	382700.00	4748700.00	7.55859	(93022604)
382700.00	4750700.00	10.07029	(93042501)	382700.00	4752700.00	11.71112	(93110702)
382700.00	4754700.00	16.06722	(93092019)	382700.00	4756700.00	8.19968	(93121503)
382700.00	4758700.00	10.98595	(93042604)	382800.00	4746400.00	4.44518	(93011419)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G53 ***
INCLUDING SOURCE(S): AMMONIA1,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	8.79020	(93092004)	360000.00	4750000.00	5.67504	(93092002)
364700.00	4750700.00	5.20802	(93062304)	364700.00	4754700.00	4.10460	(93080104)
366700.00	4756700.00	1.97009	(93102219)	370700.00	4758700.00	1.37540	(93022023)
368700.00	4752700.00	6.10812	(93042004)	372700.00	4756700.00	4.38161	(93111403)
368700.00	4744700.00	14.31783	(93122420)	368700.00	4748700.00	14.96279	(93123002)
376150.00	4752050.00	45.79402	(93030819)	376200.00	4752050.00	45.08617	(93110505)
376250.00	4752050.00	44.68828	(93110505)	376100.00	4752100.00	24.58142	(93042604)
376150.00	4752100.00	33.92497	(93042604)	376250.00	4752100.00	46.07710	(93030819)
376150.00	4752150.00	23.83839	(93042604)	376200.00	4752150.00	32.80187	(93042604)
376250.00	4752150.00	38.54705	(93093003)	374900.00	4751750.00	20.32640	(93100504)
374950.00	4751775.00	21.21287	(93090622)	375000.00	4751790.00	21.89839	(93072421)
375050.00	4751775.00	38.24186	(93101902)	375100.00	4751775.00	26.05669	(93101902)
375050.00	4751800.00	36.80688	(93101902)	375100.00	4751800.00	23.37606	(93081503)
374950.00	4751850.00	36.60997	(93101902)	375000.00	4751850.00	22.58837	(93101902)
375050.00	4751850.00	21.48881	(93090620)	375100.00	4751850.00	23.17151	(93073117)
376400.00	4750490.00	73.70744	(93020406)	376450.00	4750490.00	70.39368	(93020406)
376500.00	4750490.00	66.85419	(93020406)	376400.00	4750540.00	76.02032	(93020406)
376500.00	4750540.00	69.25191	(93112602)	376550.00	4750540.00	66.69119	(93112602)
376400.00	4750590.00	79.40904	(93020406)	376450.00	4750590.00	75.96188	(93112602)
376500.00	4750590.00	72.84043	(93112602)	376450.00	4750640.00	80.39449	(93112602)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G54 ***
INCLUDING SOURCE(S): AMMONIA2,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	4.66956	(93030116)	375000.00	4751800.00	6.86260	(93101307)
377900.00	4754300.00	3.74822	(93061421)	377950.00	4751300.00	3.36788	(93121908)
371650.00	4748400.00	34.36016	(93072904)	357000.00	4743000.00	3.92402	(93012006)
376450.00	4750540.00	73.92472	(93112602)	364700.00	4746700.00	8.33783	(93123007)
364700.00	4758700.00	1.61923	(93020502)	366700.00	4742700.00	10.30408	(93091119)
366700.00	4758700.00	2.06711	(93091219)	370700.00	4747700.00	28.57923	(93072904)
370700.00	4748700.00	16.57718	(93021502)	370700.00	4749700.00	10.80321	(93042403)
370700.00	4750700.00	8.47161	(93122908)	370700.00	4751700.00	8.23670	(93112803)
370700.00	4752700.00	3.44655	(93102918)	370700.00	4754700.00	3.19170	(93020502)
371760.00	4750600.00	9.37475	(93081103)	372700.00	4746700.00	9.40383	(93112706)
372700.00	4747700.00	11.09045	(93073005)	372700.00	4748700.00	15.79131	(93112507)
372700.00	4749700.00	25.66481	(93022107)	372700.00	4751700.00	8.15474	(93080805)
372700.00	4752700.00	3.42345	(93120307)	372700.00	4753700.00	3.33194	(93091219)
372700.00	4754700.00	2.02627	(93022022)	373200.00	4749200.00	37.49949	(93091119)
373200.00	4750200.00	31.00465	(93122919)	373200.00	4751200.00	11.55000	(93073021)
373200.00	4752200.00	4.02541	(93110206)	373700.00	4748700.00	19.07437	(93073005)
373700.00	4749700.00	40.27917	(93092224)	373700.00	4751700.00	4.57417	(93080805)
374200.00	4749200.00	29.39567	(93011408)	374200.00	4752200.00	4.29307	(93072123)
374700.00	4748700.00	14.11867	(93112502)	374700.00	4749700.00	85.47546	(93112706)
374700.00	4751700.00	6.04611	(93082407)	374700.00	4752700.00	3.51294	(93032809)
374700.00	4753700.00	2.80017	(93041616)	374700.00	4754700.00	5.11704	(93092219)
375200.00	4749200.00	22.50932	(93112502)	375200.00	4752200.00	5.73135	(93040118)
375700.00	4749700.00	20.70618	(93112703)	375700.00	4751700.00	158.29550	(93050901)
376200.00	4749200.00	19.16051	(93112703)	376300.00	4752400.00	4.55319	(93082816)
376700.00	4749700.00	31.88622	(93020406)	376700.00	4750700.00	67.50681	(93112524)
376700.00	4751700.00	4.80780	(93032014)	376700.00	4752700.00	3.43674	(93071022)
376700.00	4753700.00	3.81548	(93012405)	376700.00	4754700.00	3.23558	(93072505)
376700.00	4758700.00	3.75194	(93072703)	377200.00	4752200.00	4.46867	(93041011)
378700.00	4747700.00	9.52820	(93020406)	378700.00	4748700.00	8.43842	(93020304)
378700.00	4749700.00	8.59081	(93081905)	378700.00	4750700.00	3.76434	(93100903)
378700.00	4751700.00	2.99707	(93042322)	378700.00	4752700.00	3.21431	(93051802)
378700.00	4753700.00	3.54873	(93052524)	378700.00	4754700.00	3.85562	(93012705)
379400.00	4753600.00	5.11501	(93122401)	380700.00	4746700.00	4.30974	(93030504)
380700.00	4748700.00	4.30446	(93081905)	380700.00	4750700.00	4.62613	(93030201)
380700.00	4752700.00	4.32299	(93080102)	380700.00	4754700.00	3.19641	(93112106)
380700.00	4756700.00	3.27038	(93042604)	380700.00	4758700.00	1.41120	(93022105)
380889.00	4747781.00	8.49383	(93081404)	382700.00	4748700.00	7.44047	(93022604)
382700.00	4750700.00	7.33938	(93102304)	382700.00	4752700.00	6.81575	(93110702)
382700.00	4754700.00	7.01927	(93092019)	382700.00	4756700.00	5.81847	(93091923)
382700.00	4758700.00	3.83313	(93042604)	382800.00	4746400.00	4.31548	(93081404)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G54 ***
INCLUDING SOURCE(S): AMMONIA2,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	5.67793	(93092004)	360000.00	4750000.00	5.45251	(93092002)
364700.00	4750700.00	4.67502	(93062304)	364700.00	4754700.00	2.88719	(93030919)
366700.00	4756700.00	1.75490	(93081806)	370700.00	4758700.00	1.35196	(93022023)
368700.00	4752700.00	2.97594	(93092404)	372700.00	4756700.00	4.36833	(93111403)
368700.00	4744700.00	13.63912	(93091119)	368700.00	4748700.00	7.89698	(93021503)
376150.00	4752050.00	4.97439	(93030116)	376200.00	4752050.00	4.78836	(93030116)
376250.00	4752050.00	4.50348	(93030116)	376100.00	4752100.00	4.59297	(93030116)
376150.00	4752100.00	4.70337	(93030116)	376250.00	4752100.00	4.51923	(93030116)
376150.00	4752150.00	4.32725	(93030116)	376200.00	4752150.00	4.42421	(93030116)
376250.00	4752150.00	4.40074	(93030116)	374900.00	4751750.00	7.98006	(93071407)
374950.00	4751775.00	7.53457	(93071407)	375000.00	4751790.00	6.74841	(93101307)
375050.00	4751775.00	7.46820	(93012408)	375100.00	4751775.00	8.35627	(93012408)
375050.00	4751800.00	7.76039	(93012408)	375100.00	4751800.00	8.43272	(93012408)
374950.00	4751850.00	6.91678	(93101307)	375000.00	4751850.00	7.13781	(93012408)
375050.00	4751850.00	7.78515	(93012408)	375100.00	4751850.00	7.93243	(93012408)
376400.00	4750490.00	75.56672	(93020406)	376450.00	4750490.00	72.05068	(93112602)
376500.00	4750490.00	68.31748	(93112602)	376400.00	4750540.00	77.88771	(93112602)
376500.00	4750540.00	70.70588	(93112602)	376550.00	4750540.00	67.98624	(93112602)
376400.00	4750590.00	81.29010	(93112602)	376450.00	4750590.00	77.61545	(93112602)
376500.00	4750590.00	74.30083	(93112602)	376450.00	4750640.00	82.05912	(93112524)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G55 ***
INCLUDING SOURCE(S): SPA ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	161.79600	(93081403)	375000.00	4751800.00	352.35360	(93083104)
377900.00	4754300.00	34.99266	(93042604)	377950.00	4751300.00	97.92413	(93030203)
371650.00	4748400.00	11.02977	(93112507)	357000.00	4743000.00	9.73168	(93020520)
376450.00	4750540.00	46.63328	(93112523)	364700.00	4746700.00	3.39193	(93011823)
364700.00	4758700.00	11.66994	(93030119)	366700.00	4742700.00	3.12896	(93011408)
366700.00	4758700.00	14.74680	(93083101)	370700.00	4747700.00	7.83474	(93112507)
370700.00	4748700.00	9.10438	(93112507)	370700.00	4749700.00	52.52813	(93091224)
370700.00	4750700.00	55.29112	(93111323)	370700.00	4751700.00	55.22940	(93122421)
370700.00	4752700.00	49.73708	(93111105)	370700.00	4754700.00	40.79033	(93082601)
371760.00	4750600.00	71.30642	(93012206)	372700.00	4746700.00	7.09678	(93112607)
372700.00	4747700.00	10.24981	(93112607)	372700.00	4748700.00	12.00776	(93112507)
372700.00	4749700.00	19.74544	(93112507)	372700.00	4751700.00	106.62770	(93122421)
372700.00	4752700.00	79.23138	(93081424)	372700.00	4753700.00	74.45182	(93122624)
372700.00	4754700.00	39.45426	(93081720)	373200.00	4749200.00	20.29531	(93011408)
373200.00	4750200.00	27.85369	(93112507)	373200.00	4751200.00	128.59390	(93111323)
373200.00	4752200.00	112.17120	(93091924)	373700.00	4748700.00	16.33053	(93112607)
373700.00	4749700.00	25.85871	(93112507)	373700.00	4751700.00	174.77910	(93122421)
374200.00	4749200.00	21.52789	(93112607)	374200.00	4752200.00	171.09020	(93122721)
374700.00	4748700.00	8.15295	(93112706)	374700.00	4749700.00	35.79021	(93112607)
374700.00	4751700.00	398.70730	(93072021)	374700.00	4752700.00	149.68780	(93092719)
374700.00	4753700.00	95.03200	(93041520)	374700.00	4754700.00	79.12720	(93111406)
375200.00	4749200.00	13.31964	(93112502)	375200.00	4752200.00	292.43160	(93111919)
375700.00	4749700.00	13.43824	(93093018)	375700.00	4751700.00	351.89540	(93122508)
376200.00	4749200.00	10.75204	(93112703)	376300.00	4752400.00	248.43980	(93121503)
376700.00	4749700.00	20.60777	(93020406)	376700.00	4750700.00	44.49580	(93112602)
376700.00	4751700.00	167.73450	(93121504)	376700.00	4752700.00	163.82540	(93121503)
376700.00	4753700.00	88.18441	(93122103)	376700.00	4754700.00	68.10542	(93101404)
376700.00	4758700.00	23.05794	(93072703)	377200.00	4752200.00	122.02710	(93092302)
378700.00	4747700.00	6.76968	(93112523)	378700.00	4748700.00	12.09650	(93112602)
378700.00	4749700.00	15.84584	(93112602)	378700.00	4750700.00	71.71606	(93073104)
378700.00	4751700.00	70.14007	(93121504)	378700.00	4752700.00	73.12888	(93092302)
378700.00	4753700.00	48.90482	(93112106)	378700.00	4754700.00	60.71055	(93093003)
379400.00	4753600.00	62.37534	(93081403)	380700.00	4746700.00	33.50822	(93012504)
380700.00	4748700.00	40.97877	(93072104)	380700.00	4750700.00	44.48518	(93012722)
380700.00	4752700.00	49.73103	(93050920)	380700.00	4754700.00	27.37576	(93122401)
380700.00	4756700.00	32.79466	(93042604)	380700.00	4758700.00	11.55540	(93032004)
380889.00	4747781.00	7.24726	(93112602)	382700.00	4748700.00	5.94378	(93112602)
382700.00	4750700.00	5.94621	(93112601)	382700.00	4752700.00	5.83389	(93110702)
382700.00	4754700.00	5.62045	(93030403)	382700.00	4756700.00	4.63060	(93121503)
382700.00	4758700.00	23.38194	(93042604)	382800.00	4746400.00	24.96664	(93020224)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G55 ***
INCLUDING SOURCE(S): SPA ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	12.14806	(93091224)	360000.00	4750000.00	12.35085	(93071921)
364700.00	4750700.00	20.28514	(93092002)	364700.00	4754700.00	18.26412	(93100224)
366700.00	4756700.00	15.53987	(93072903)	370700.00	4758700.00	18.48085	(93092719)
368700.00	4752700.00	32.72852	(93072004)	372700.00	4756700.00	39.75039	(93100219)
368700.00	4744700.00	4.29241	(93112507)	368700.00	4748700.00	33.88879	(93110903)
376150.00	4752050.00	211.20320	(93081403)	376200.00	4752050.00	201.72300	(93092019)
376250.00	4752050.00	166.49690	(93062902)	376100.00	4752100.00	146.67300	(93112106)
376150.00	4752100.00	141.62120	(93122401)	376250.00	4752100.00	193.08740	(93081403)
376150.00	4752150.00	141.75850	(93030520)	376200.00	4752150.00	128.95190	(93112106)
376250.00	4752150.00	129.60210	(93122401)	374900.00	4751750.00	381.83810	(93042703)
374950.00	4751775.00	339.60640	(93112901)	375000.00	4751790.00	355.77980	(93081820)
375050.00	4751775.00	377.54790	(93081820)	375100.00	4751775.00	391.13650	(93083104)
375050.00	4751800.00	349.69010	(93050524)	375100.00	4751800.00	359.61650	(93082804)
374950.00	4751850.00	312.77740	(93082804)	375000.00	4751850.00	327.90580	(93072803)
375050.00	4751850.00	643.51980	(93082404)	375100.00	4751850.00	789.87680	(93111104)
376400.00	4750490.00	47.64362	(93112523)	376450.00	4750490.00	45.64676	(93112523)
376500.00	4750490.00	43.42534	(93112523)	376400.00	4750540.00	48.90652	(93112523)
376500.00	4750540.00	44.88896	(93112523)	376550.00	4750540.00	43.48875	(93112523)
376400.00	4750590.00	51.02321	(93112523)	376450.00	4750590.00	49.06420	(93112523)
376500.00	4750590.00	47.32268	(93112523)	376450.00	4750640.00	52.09882	(93112523)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G56 ***
INCLUDING SOURCE(S): TANKFARM,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	69.19865	(93121503)	375000.00	4751800.00	114.56040	(93081820)
377900.00	4754300.00	19.81353	(93072103)	377950.00	4751300.00	35.61452	(93030203)
371650.00	4748400.00	33.97485	(93112918)	357000.00	4743000.00	5.52761	(93012006)
376450.00	4750540.00	45.60667	(93020406)	364700.00	4746700.00	10.77170	(93012006)
364700.00	4758700.00	3.97188	(93082601)	366700.00	4742700.00	9.45994	(93092224)
366700.00	4758700.00	5.02857	(93112621)	370700.00	4747700.00	5.80046	(93072904)
370700.00	4748700.00	14.69618	(93040806)	370700.00	4749700.00	22.60899	(93121422)
370700.00	4750700.00	24.00156	(93081705)	370700.00	4751700.00	20.20911	(93101103)
370700.00	4752700.00	20.46231	(93111105)	370700.00	4754700.00	14.53652	(93082601)
371760.00	4750600.00	28.64877	(93030106)	372700.00	4746700.00	5.76783	(93112607)
372700.00	4747700.00	8.10433	(93112607)	372700.00	4748700.00	9.45954	(93112507)
372700.00	4749700.00	51.21000	(93123005)	372700.00	4751700.00	34.86167	(93101103)
372700.00	4752700.00	26.03793	(93082804)	372700.00	4753700.00	24.45390	(93082303)
372700.00	4754700.00	12.87124	(93081720)	373200.00	4749200.00	41.60108	(93092224)
373200.00	4750200.00	63.00810	(93111022)	373200.00	4751200.00	45.15819	(93061901)
373200.00	4752200.00	38.94786	(93012801)	373700.00	4748700.00	12.86399	(93112607)
373700.00	4749700.00	19.02437	(93012201)	373700.00	4751700.00	52.94385	(93072024)
374200.00	4749200.00	16.98224	(93112607)	374200.00	4752200.00	55.06653	(93072803)
374700.00	4748700.00	7.69378	(93112706)	374700.00	4749700.00	26.95300	(93100302)
374700.00	4751700.00	70.94110	(93072024)	374700.00	4752700.00	34.25571	(93081720)
374700.00	4753700.00	19.70543	(93122102)	374700.00	4754700.00	38.45197	(93111019)
375200.00	4749200.00	12.20887	(93112502)	375200.00	4752200.00	92.45785	(93061821)
375700.00	4749700.00	10.57862	(93093018)	375700.00	4751700.00	.00000	(0)
376200.00	4749200.00	10.73799	(93112703)	376300.00	4752400.00	57.84081	(93102302)
376700.00	4749700.00	19.21200	(93020406)	376700.00	4750700.00	44.40958	(93112602)
376700.00	4751700.00	37.90435	(93121701)	376700.00	4752700.00	52.54408	(93042604)
376700.00	4753700.00	52.23233	(93102618)	376700.00	4754700.00	18.88671	(93102201)
376700.00	4758700.00	17.11096	(93072703)	377200.00	4752200.00	42.50188	(93050905)
378700.00	4747700.00	6.01380	(93020406)	378700.00	4748700.00	10.21047	(93011419)
378700.00	4749700.00	55.54924	(93101624)	378700.00	4750700.00	37.19590	(93073104)
378700.00	4751700.00	23.02211	(93121504)	378700.00	4752700.00	29.27192	(93050905)
378700.00	4753700.00	28.81251	(93030520)	378700.00	4754700.00	24.86022	(93042604)
379400.00	4753600.00	25.11609	(93081403)	380700.00	4746700.00	15.19856	(93123018)
380700.00	4748700.00	23.32656	(93072905)	380700.00	4750700.00	24.58181	(93012722)
380700.00	4752700.00	23.59064	(93021424)	380700.00	4754700.00	11.29257	(93112106)
380700.00	4756700.00	13.84176	(93042604)	380700.00	4758700.00	2.99060	(93110820)
380889.00	4747781.00	27.11001	(93020224)	382700.00	4748700.00	20.72494	(93010405)
382700.00	4750700.00	4.88299	(93102024)	382700.00	4752700.00	4.86822	(93021424)
382700.00	4754700.00	4.18297	(93081403)	382700.00	4756700.00	3.70765	(93081403)
382700.00	4758700.00	10.13908	(93042604)	382800.00	4746400.00	13.91970	(93020224)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G56 ***
INCLUDING SOURCE(S): TANKFARM,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	7.90379	(93091224)	360000.00	4750000.00	6.91580	(93071921)
364700.00	4750700.00	8.06601	(93092002)	364700.00	4754700.00	9.04060	(93092505)
366700.00	4756700.00	5.26156	(93092104)	370700.00	4758700.00	5.71971	(93092719)
368700.00	4752700.00	14.01466	(93013023)	372700.00	4756700.00	14.52005	(93020419)
368700.00	4744700.00	14.45472	(93092224)	368700.00	4748700.00	16.89812	(93091224)
376150.00	4752050.00	82.50223	(93121503)	376200.00	4752050.00	47.64998	(93091923)
376250.00	4752050.00	32.10248	(93052524)	376100.00	4752100.00	78.68061	(93042604)
376150.00	4752100.00	68.16267	(93093003)	376250.00	4752100.00	55.90020	(93121503)
376150.00	4752150.00	71.76505	(93042604)	376200.00	4752150.00	64.47466	(93093003)
376250.00	4752150.00	54.60920	(93121503)	374900.00	4751750.00	102.94730	(93073105)
374950.00	4751775.00	88.04250	(93052305)	375000.00	4751790.00	102.77840	(93091924)
375050.00	4751775.00	106.82610	(93091924)	375100.00	4751775.00	127.94070	(93081820)
375050.00	4751800.00	110.55860	(93081820)	375100.00	4751800.00	111.72030	(93092505)
374950.00	4751850.00	95.94974	(93030919)	375000.00	4751850.00	100.59820	(93050524)
375050.00	4751850.00	106.50440	(93082804)	375100.00	4751850.00	110.42320	(93072803)
376400.00	4750490.00	46.06109	(93020406)	376450.00	4750490.00	44.26072	(93020406)
376500.00	4750490.00	42.25267	(93020406)	376400.00	4750540.00	47.67708	(93020406)
376500.00	4750540.00	43.96602	(93020406)	376550.00	4750540.00	42.60367	(93020406)
376400.00	4750590.00	50.06739	(93020406)	376450.00	4750590.00	48.22339	(93020406)
376500.00	4750590.00	46.54694	(93020406)	376450.00	4750640.00	51.41717	(93020406)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G57 ***
INCLUDING SOURCE(S): COKESCRU,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	5.33958	(93042120)	375000.00	4751800.00	11.85595	(93091020)
377900.00	4754300.00	11.26095	(93121503)	377950.00	4751300.00	11.55254	(93073103)
371650.00	4748400.00	29.38479	(93072705)	357000.00	4743000.00	4.76330	(93012006)
376450.00	4750540.00	22.88118	(93112601)	364700.00	4746700.00	11.22324	(93020520)
364700.00	4758700.00	3.80271	(93083020)	366700.00	4742700.00	10.46469	(93112422)
366700.00	4758700.00	2.99574	(93081720)	370700.00	4747700.00	22.66024	(93070705)
370700.00	4748700.00	26.86987	(93072904)	370700.00	4749700.00	12.93693	(93091224)
370700.00	4750700.00	10.80672	(93073021)	370700.00	4751700.00	11.45452	(93081820)
370700.00	4752700.00	10.67988	(93091520)	370700.00	4754700.00	8.64339	(93061821)
371760.00	4750600.00	11.05390	(93081208)	372700.00	4746700.00	12.61305	(93112502)
372700.00	4747700.00	20.14799	(93112502)	372700.00	4748700.00	30.28016	(93112607)
372700.00	4749700.00	34.31373	(93072020)	372700.00	4751700.00	15.85824	(93062422)
372700.00	4752700.00	9.11478	(93082723)	372700.00	4753700.00	6.60120	(93061204)
372700.00	4754700.00	7.47243	(93092219)	373200.00	4749200.00	21.16358	(93072704)
373200.00	4750200.00	37.30075	(93062812)	373200.00	4751200.00	20.20502	(93073115)
373200.00	4752200.00	12.32465	(93030219)	373700.00	4748700.00	36.29485	(93112703)
373700.00	4749700.00	86.48568	(93091919)	373700.00	4751700.00	17.91627	(93061120)
374200.00	4749200.00	47.24369	(93112703)	374200.00	4752200.00	11.92726	(93060824)
374700.00	4748700.00	15.82057	(93122505)	374700.00	4749700.00	54.38975	(93091519)
374700.00	4751700.00	14.08867	(93091021)	374700.00	4752700.00	7.68922	(93092621)
374700.00	4753700.00	5.79728	(93072505)	374700.00	4754700.00	9.32953	(93122005)
375200.00	4749200.00	19.75549	(93112523)	375200.00	4752200.00	9.81236	(93090320)
375700.00	4749700.00	11.47365	(93112602)	375700.00	4751700.00	36.03016	(93021424)
376200.00	4749200.00	11.76808	(93112602)	376300.00	4752400.00	10.51228	(93060421)
376700.00	4749700.00	15.78938	(93112601)	376700.00	4750700.00	20.70469	(93020405)
376700.00	4751700.00	5.78629	(93081421)	376700.00	4752700.00	8.02202	(93063023)
376700.00	4753700.00	15.05743	(93093003)	376700.00	4754700.00	11.18940	(93072103)
376700.00	4758700.00	6.68262	(93031801)	377200.00	4752200.00	8.96619	(93050905)
378700.00	4747700.00	6.78367	(93112602)	378700.00	4748700.00	17.64406	(93010405)
378700.00	4749700.00	18.87775	(93072102)	378700.00	4750700.00	8.86475	(93071203)
378700.00	4751700.00	7.41408	(93110702)	378700.00	4752700.00	12.67569	(93050905)
378700.00	4753700.00	9.76067	(93060421)	378700.00	4754700.00	10.16569	(93091923)
379400.00	4753600.00	18.71107	(93092019)	380700.00	4746700.00	11.01543	(93092106)
380700.00	4748700.00	13.21347	(93073104)	380700.00	4750700.00	9.28724	(93071203)
380700.00	4752700.00	9.78072	(93080102)	380700.00	4754700.00	7.19873	(93031023)
380700.00	4756700.00	6.47827	(93121503)	380700.00	4758700.00	2.23157	(93041903)
380889.00	4747781.00	14.70873	(93010405)	382700.00	4748700.00	10.77847	(93072102)
382700.00	4750700.00	11.29653	(93032501)	382700.00	4752700.00	13.09041	(93021424)
382700.00	4754700.00	12.36163	(93062902)	382700.00	4756700.00	7.63538	(93030520)
382700.00	4758700.00	6.33289	(93093003)	382800.00	4746400.00	9.66528	(93090704)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G57 ***
INCLUDING SOURCE(S): COKESCRU,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	8.16792	(93091224)	360000.00	4750000.00	7.96124	(93062304)
364700.00	4750700.00	7.13212	(93050603)	364700.00	4754700.00	6.80895	(93080720)
366700.00	4756700.00	4.10238	(93091219)	370700.00	4758700.00	2.82608	(93041520)
368700.00	4752700.00	10.63326	(93081424)	372700.00	4756700.00	6.25749	(93021919)
368700.00	4744700.00	17.06834	(93072705)	368700.00	4748700.00	10.00610	(93100606)
376150.00	4752050.00	5.10033	(93042120)	376200.00	4752050.00	4.79274	(93042120)
376250.00	4752050.00	4.80195	(93042502)	376100.00	4752100.00	5.28387	(93042120)
376150.00	4752100.00	5.38374	(93042120)	376250.00	4752100.00	5.16643	(93042120)
376150.00	4752150.00	5.03568	(93042120)	376200.00	4752150.00	5.28172	(93042120)
376250.00	4752150.00	5.38955	(93042120)	374900.00	4751750.00	12.37972	(93091020)
374950.00	4751775.00	12.13790	(93091020)	375000.00	4751790.00	12.00254	(93091020)
375050.00	4751775.00	11.32273	(93091020)	375100.00	4751775.00	10.29891	(93070402)
375050.00	4751800.00	11.65071	(93091020)	375100.00	4751800.00	10.82514	(93091020)
374950.00	4751850.00	12.09830	(93091021)	375000.00	4751850.00	11.40634	(93091021)
375050.00	4751850.00	11.03408	(93091020)	375100.00	4751850.00	11.21356	(93091020)
376400.00	4750490.00	23.90201	(93112601)	376450.00	4750490.00	23.05015	(93112601)
376500.00	4750490.00	22.11285	(93112601)	376400.00	4750540.00	23.79696	(93112601)
376500.00	4750540.00	22.18923	(93112601)	376550.00	4750540.00	21.64554	(93112601)
376400.00	4750590.00	23.85619	(93020405)	376450.00	4750590.00	23.12447	(93020405)
376500.00	4750590.00	22.48521	(93020405)	376450.00	4750640.00	23.69236	(93020405)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G58 ***
INCLUDING SOURCE(S): COKEBH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	7.35644	(93092019)	375000.00	4751800.00	15.27137	(93091020)
377900.00	4754300.00	18.71152	(93121503)	377950.00	4751300.00	17.51266	(93073103)
371650.00	4748400.00	36.44644	(93072705)	357000.00	4743000.00	6.23011	(93020520)
376450.00	4750540.00	21.93589	(93112601)	364700.00	4746700.00	14.61123	(93020520)
364700.00	4758700.00	5.03690	(93101124)	366700.00	4742700.00	13.08055	(93112422)
366700.00	4758700.00	3.93837	(93090202)	370700.00	4747700.00	28.72460	(93070705)
370700.00	4748700.00	32.69284	(93100501)	370700.00	4749700.00	22.79059	(93091224)
370700.00	4750700.00	18.67643	(93062304)	370700.00	4751700.00	16.71188	(93071322)
370700.00	4752700.00	17.05621	(93071922)	370700.00	4754700.00	12.68576	(93061821)
371760.00	4750600.00	16.44639	(93072022)	372700.00	4746700.00	12.08649	(93112502)
372700.00	4747700.00	19.50705	(93112706)	372700.00	4748700.00	29.03223	(93112607)
372700.00	4749700.00	36.70583	(93072020)	372700.00	4751700.00	25.86897	(93061920)
372700.00	4752700.00	14.61341	(93052420)	372700.00	4753700.00	12.87159	(93061204)
372700.00	4754700.00	9.86189	(93092219)	373200.00	4749200.00	38.95438	(93072704)
373200.00	4750200.00	55.43869	(93062812)	373200.00	4751200.00	52.30429	(93081014)
373200.00	4752200.00	18.02050	(93030219)	373700.00	4748700.00	34.91806	(93112703)
373700.00	4749700.00	86.48569	(93010404)	373700.00	4751700.00	30.82798	(93072301)
374200.00	4749200.00	45.39592	(93112703)	374200.00	4752200.00	16.56458	(93052920)
374700.00	4748700.00	14.69152	(93122505)	374700.00	4749700.00	57.15351	(93011922)
374700.00	4751700.00	19.28972	(93060420)	374700.00	4752700.00	9.90373	(93052923)
374700.00	4753700.00	10.42647	(93031801)	374700.00	4754700.00	16.55617	(93122005)
375200.00	4749200.00	18.49302	(93112523)	375200.00	4752200.00	13.32691	(93100523)
375700.00	4749700.00	10.48298	(93081908)	375700.00	4751700.00	34.85879	(93021424)
376200.00	4749200.00	10.92142	(93112605)	376300.00	4752400.00	17.14781	(93060421)
376700.00	4749700.00	15.03515	(93112605)	376700.00	4750700.00	19.96399	(93112622)
376700.00	4751700.00	9.92640	(93080102)	376700.00	4752700.00	12.01075	(93063023)
376700.00	4753700.00	24.53387	(93093003)	376700.00	4754700.00	18.10025	(93072103)
376700.00	4758700.00	10.04745	(93031801)	377200.00	4752200.00	16.32630	(93050905)
378700.00	4747700.00	6.45277	(93112605)	378700.00	4748700.00	22.45745	(93010405)
378700.00	4749700.00	23.21997	(93072102)	378700.00	4750700.00	13.39113	(93071203)
378700.00	4751700.00	13.34249	(93110702)	378700.00	4752700.00	20.14638	(93050905)
378700.00	4753700.00	14.23092	(93091305)	378700.00	4754700.00	14.61692	(93091923)
379400.00	4753600.00	23.71742	(93092019)	380700.00	4746700.00	15.04886	(93092106)
380700.00	4748700.00	17.16810	(93073104)	380700.00	4750700.00	14.17900	(93032501)
380700.00	4752700.00	13.43627	(93080102)	380700.00	4754700.00	10.32967	(93031023)
380700.00	4756700.00	9.37343	(93121503)	380700.00	4758700.00	3.32306	(93041903)
380889.00	4747781.00	17.77348	(93010405)	382700.00	4748700.00	12.93164	(93072102)
382700.00	4750700.00	14.44944	(93032501)	382700.00	4752700.00	4.75910	(93121504)
382700.00	4754700.00	14.62105	(93062902)	382700.00	4756700.00	8.73464	(93030520)
382700.00	4758700.00	8.12872	(93030819)	382800.00	4746400.00	12.78358	(93090704)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G58 ***
INCLUDING SOURCE(S): COKEBH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	9.66409	(93091224)	360000.00	4750000.00	10.49042	(93062304)
364700.00	4750700.00	10.17778	(93050603)	364700.00	4754700.00	9.01700	(93122721)
366700.00	4756700.00	6.00967	(93101124)	370700.00	4758700.00	4.46046	(93041520)
368700.00	4752700.00	15.48899	(93081424)	372700.00	4756700.00	10.29613	(93021919)
368700.00	4744700.00	19.16239	(93072705)	368700.00	4748700.00	15.78840	(93100606)
376150.00	4752050.00	7.06432	(93042120)	376200.00	4752050.00	6.61158	(93042120)
376250.00	4752050.00	6.54689	(93062902)	376100.00	4752100.00	7.33469	(93042120)
376150.00	4752100.00	7.44299	(93042120)	376250.00	4752100.00	7.08714	(93042120)
376150.00	4752150.00	6.94871	(93042120)	376200.00	4752150.00	7.26005	(93042120)
376250.00	4752150.00	7.70474	(93092019)	374900.00	4751750.00	16.25589	(93091020)
374950.00	4751775.00	15.78016	(93091020)	375000.00	4751790.00	15.47409	(93091020)
375050.00	4751775.00	16.72849	(93063023)	375100.00	4751775.00	15.18062	(93063023)
375050.00	4751800.00	15.83339	(93063023)	375100.00	4751800.00	17.12085	(93063023)
374950.00	4751850.00	15.57956	(93091021)	375000.00	4751850.00	17.39809	(93072820)
375050.00	4751850.00	15.75339	(93072820)	375100.00	4751850.00	14.21610	(93063023)
376400.00	4750490.00	22.93577	(93112601)	376450.00	4750490.00	22.10823	(93112601)
376500.00	4750490.00	21.19425	(93112601)	376400.00	4750540.00	22.82714	(93112601)
376500.00	4750540.00	21.26746	(93112601)	376550.00	4750540.00	20.74636	(93112601)
376400.00	4750590.00	23.00274	(93112622)	376450.00	4750590.00	22.29269	(93112622)
376500.00	4750590.00	21.67421	(93112622)	376450.00	4750640.00	22.85833	(93112622)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G59 ***
INCLUDING SOURCE(S): DRUMBH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
376200.00	4752100.00	4.16037	(93042113)	375000.00	4751800.00	7.30805	(93071217)
377900.00	4754300.00	5.81710	(93091923)	377950.00	4751300.00	4.27551	(93071605)
371650.00	4748400.00	9.41643	(93011422)	357000.00	4743000.00	3.42193	(93121903)
376450.00	4750540.00	25.60540	(93112601)	364700.00	4746700.00	7.23962	(93111107)
364700.00	4758700.00	2.47225	(93091219)	366700.00	4742700.00	7.16903	(93112422)
366700.00	4758700.00	1.80292	(93042020)	370700.00	4747700.00	9.35608	(93120519)
370700.00	4748700.00	9.51709	(93011818)	370700.00	4749700.00	5.66941	(93121418)
370700.00	4750700.00	4.96480	(93101119)	370700.00	4751700.00	4.35633	(93072023)
370700.00	4752700.00	5.38476	(93062508)	370700.00	4754700.00	3.53289	(93012418)
371760.00	4750600.00	4.73253	(93051909)	372700.00	4746700.00	11.50705	(93112706)
372700.00	4747700.00	16.68779	(93072704)	372700.00	4748700.00	24.70414	(93112607)
372700.00	4749700.00	7.82729	(93042705)	372700.00	4751700.00	6.17628	(93072522)
372700.00	4752700.00	4.91123	(93062103)	372700.00	4753700.00	3.49060	(93072220)
372700.00	4754700.00	2.22431	(93012324)	373200.00	4749200.00	7.44589	(93031120)
373200.00	4750200.00	9.94892	(93092113)	373200.00	4751200.00	7.31492	(93100307)
373200.00	4752200.00	7.51124	(93080824)	373700.00	4748700.00	29.28122	(93010404)
373700.00	4749700.00	21.88875	(93100821)	373700.00	4751700.00	9.17308	(93021710)
374200.00	4749200.00	39.12912	(93112703)	374200.00	4752200.00	8.84277	(93051512)
374700.00	4748700.00	14.71690	(93112703)	374700.00	4749700.00	16.92775	(93072801)
374700.00	4751700.00	8.66626	(93071014)	374700.00	4752700.00	5.02958	(93042114)
374700.00	4753700.00	3.58761	(93091719)	374700.00	4754700.00	6.12088	(93082803)
375200.00	4749200.00	19.06510	(93020406)	375200.00	4752200.00	5.78547	(93071023)
375700.00	4749700.00	12.29304	(93112602)	375700.00	4751700.00	41.45640	(93050920)
376200.00	4749200.00	12.23757	(93112602)	376300.00	4752400.00	4.44415	(93042120)
376700.00	4749700.00	16.80068	(93112602)	376700.00	4750700.00	23.43006	(93112601)
376700.00	4751700.00	3.27668	(93081519)	376700.00	4752700.00	3.34686	(93012703)
376700.00	4753700.00	5.96142	(93100523)	376700.00	4754700.00	4.10650	(93061421)
376700.00	4758700.00	4.73416	(93031801)	377200.00	4752200.00	4.43777	(93081421)
378700.00	4747700.00	7.02475	(93112602)	378700.00	4748700.00	9.99452	(93081905)
378700.00	4749700.00	9.95952	(93090203)	378700.00	4750700.00	4.49355	(93100701)
378700.00	4751700.00	4.08652	(93073103)	378700.00	4752700.00	5.98857	(93092302)
378700.00	4753700.00	5.52851	(93081403)	378700.00	4754700.00	6.20283	(93052524)
379400.00	4753600.00	7.53523	(93062902)	380700.00	4746700.00	5.99345	(93081404)
380700.00	4748700.00	5.78266	(93022604)	380700.00	4750700.00	6.50480	(93102304)
380700.00	4752700.00	6.50400	(93030403)	380700.00	4754700.00	5.65359	(93081403)
380700.00	4756700.00	5.44035	(93121503)	380700.00	4758700.00	1.54560	(93032722)
380889.00	4747781.00	8.80629	(93090704)	382700.00	4748700.00	8.33557	(93072605)
382700.00	4750700.00	8.34490	(93090605)	382700.00	4752700.00	8.17257	(93110702)
382700.00	4754700.00	3.93360	(93062902)	382700.00	4756700.00	6.21423	(93112106)
382700.00	4758700.00	5.02186	(93030819)	382800.00	4746400.00	5.37626	(93072104)

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: G59 ***
INCLUDING SOURCE(S): DRUMBH ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
360000.00	4745000.00	5.07639	(93110903)	360000.00	4750000.00	5.59846	(93092002)
364700.00	4750700.00	3.92672	(93062304)	364700.00	4754700.00	3.57910	(93081424)
366700.00	4756700.00	2.05177	(93122903)	370700.00	4758700.00	1.67863	(93101518)
368700.00	4752700.00	3.92524	(93102918)	372700.00	4756700.00	5.13118	(93092219)
368700.00	4744700.00	8.83521	(93072705)	368700.00	4748700.00	5.19486	(93121418)
376150.00	4752050.00	4.15149	(93042113)	376200.00	4752050.00	4.00052	(93042113)
376250.00	4752050.00	3.84183	(93042113)	376100.00	4752100.00	4.33962	(93042113)
376150.00	4752100.00	4.25923	(93042113)	376250.00	4752100.00	4.04643	(93042113)
376150.00	4752150.00	4.19510	(93042113)	376200.00	4752150.00	4.15791	(93042113)
376250.00	4752150.00	4.09979	(93042113)	374900.00	4751750.00	7.85149	(93071217)
374950.00	4751775.00	7.57950	(93071217)	375000.00	4751790.00	7.37292	(93071217)
375050.00	4751775.00	7.16312	(93071019)	375100.00	4751775.00	6.94632	(93071118)
375050.00	4751800.00	7.10415	(93071019)	375100.00	4751800.00	6.94995	(93071019)
374950.00	4751850.00	7.19865	(93062603)	375000.00	4751850.00	7.20562	(93071014)
375050.00	4751850.00	6.99450	(93071014)	375100.00	4751850.00	6.77945	(93071217)
376400.00	4750490.00	26.63444	(93112601)	376450.00	4750490.00	25.68398	(93112601)
376500.00	4750490.00	24.64267	(93112601)	376400.00	4750540.00	26.63264	(93112601)
376500.00	4750540.00	24.82193	(93112601)	376550.00	4750540.00	24.20019	(93112601)
376400.00	4750590.00	26.96895	(93112601)	376450.00	4750590.00	26.12940	(93112601)
376500.00	4750590.00	25.39232	(93112601)	376450.00	4750640.00	26.85457	(93112601)

*** MODELING OPTIONS USED: CONC RURAL ELEV

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

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
G1	HIGH 1ST HIGH VALUE IS	812.25220	ON 93102302:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	
G2	HIGH 1ST HIGH VALUE IS	383.14520	ON 93030520:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	
G3	HIGH 1ST HIGH VALUE IS	581.58390	ON 93030520:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	
G4	HIGH 1ST HIGH VALUE IS	62.03121	ON 93080705:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G5	HIGH 1ST HIGH VALUE IS	65.27845	ON 93080705:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G6	HIGH 1ST HIGH VALUE IS	51.24582	ON 93092019:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G7	HIGH 1ST HIGH VALUE IS	53.96288	ON 93080705:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G8	HIGH 1ST HIGH VALUE IS	84.27889	ON 93122419:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G9	HIGH 1ST HIGH VALUE IS	96.91497	ON 93091919:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G10	HIGH 1ST HIGH VALUE IS	43.46209	ON 93031023:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G11	HIGH 1ST HIGH VALUE IS	61.91647	ON 93072124:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G12	HIGH 1ST HIGH VALUE IS	358.59260	ON 93040203:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	
G13	HIGH 1ST HIGH VALUE IS	368.83790	ON 93040203:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	
G14	HIGH 1ST HIGH VALUE IS	548.71170	ON 93030719:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	
G15	HIGH 1ST HIGH VALUE IS	412.89310	ON 93122103:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	
G16	HIGH 1ST HIGH VALUE IS	816.39720	ON 93102318:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	
G17	HIGH 1ST HIGH VALUE IS	220.45330	ON 93121503:	AT (375000.00, 4751850.00, 1356.00, .00)	DC	
G18	HIGH 1ST HIGH VALUE IS	89.25552	ON 93090105:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G19	HIGH 1ST HIGH VALUE IS	95.42143	ON 93122618:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G20	HIGH 1ST HIGH VALUE IS	406.48960	ON 93122103:	AT (374700.00, 4751700.00, 1356.00, .00)	DC	

*** MODELING OPTIONS USED: CONC RURAL ELEV

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

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
G21	HIGH	1ST HIGH VALUE IS	250.13690	ON 93050524:	AT (373700.00, 4751700.00, 1357.00, .00)	DC	
G22	HIGH	1ST HIGH VALUE IS	196.67590	ON 93030919:	AT (373700.00, 4751700.00, 1357.00, .00)	DC	
G23	HIGH	1ST HIGH VALUE IS	197.15280	ON 93100224:	AT (373700.00, 4751700.00, 1357.00, .00)	DC	
G24	HIGH	1ST HIGH VALUE IS	130.50570	ON 93122808:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G25	HIGH	1ST HIGH VALUE IS	130.91060	ON 93122808:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G26	HIGH	1ST HIGH VALUE IS	130.73470	ON 93012020:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G27	HIGH	1ST HIGH VALUE IS	130.02100	ON 93012020:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G28	HIGH	1ST HIGH VALUE IS	97.76377	ON 93122808:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G29	HIGH	1ST HIGH VALUE IS	97.21408	ON 93122808:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G30	HIGH	1ST HIGH VALUE IS	96.53463	ON 93122507:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G31	HIGH	1ST HIGH VALUE IS	95.48221	ON 93122507:	AT (374700.00, 4749700.00, 1408.00, .00)	DC	
G32	HIGH	1ST HIGH VALUE IS	33.99331	ON 93031806:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G33	HIGH	1ST HIGH VALUE IS	35.24409	ON 93031806:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G34	HIGH	1ST HIGH VALUE IS	35.19561	ON 93031806:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G35	HIGH	1ST HIGH VALUE IS	35.13599	ON 93031806:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G36	HIGH	1ST HIGH VALUE IS	53.30263	ON 93030403:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G37	HIGH	1ST HIGH VALUE IS	96.26653	ON 93031806:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G38	HIGH	1ST HIGH VALUE IS	195.14940	ON 93082301:	AT (375700.00, 4751700.00, 1430.00, .00)	DC	
G39	HIGH	1ST HIGH VALUE IS	255.20890	ON 93092419:	AT (375100.00, 4751775.00, 1356.00, .00)	DC	
G40	HIGH	1ST HIGH VALUE IS	283.08200	ON 93112619:	AT (375100.00, 4751775.00, 1356.00, .00)	DC	

*** MODELING OPTIONS USED: CONC RURAL ELEV

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

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
G41	HIGH	1ST HIGH VALUE IS	189.39870	ON 93021424: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	
G42	HIGH	1ST HIGH VALUE IS	122.88410	ON 93092019: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	
G43	HIGH	1ST HIGH VALUE IS	533.29250	ON 93092104: AT (	375100.00,	4751775.00,	1356.00,	.00)	DC	
G44	HIGH	1ST HIGH VALUE IS	359.94170	ON 93082803: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	
G45	HIGH	1ST HIGH VALUE IS	247.57690	ON 93093021: AT (	375100.00,	4751850.00,	1356.00,	.00)	DC	
G46	HIGH	1ST HIGH VALUE IS	410.70520	ON 93093021: AT (	375100.00,	4751850.00,	1356.00,	.00)	DC	
G47	HIGH	1ST HIGH VALUE IS	328.90910	ON 93030107: AT (	375100.00,	4751775.00,	1356.00,	.00)	DC	
G48	HIGH	1ST HIGH VALUE IS	213.50150	ON 93110906: AT (	375100.00,	4751800.00,	1356.00,	.00)	DC	
G49	HIGH	1ST HIGH VALUE IS	200.58820	ON 93092719: AT (	375200.00,	4752200.00,	1356.00,	.00)	DC	
G50	HIGH	1ST HIGH VALUE IS	175.95960	ON 93061220: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	
G51	HIGH	1ST HIGH VALUE IS	183.38970	ON 93061821: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	
G52	HIGH	1ST HIGH VALUE IS	158.35010	ON 93061220: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	
G53	HIGH	1ST HIGH VALUE IS	149.92370	ON 93050901: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	
G54	HIGH	1ST HIGH VALUE IS	158.29550	ON 93050901: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	
G55	HIGH	1ST HIGH VALUE IS	789.87680	ON 93111104: AT (	375100.00,	4751850.00,	1356.00,	.00)	DC	
G56	HIGH	1ST HIGH VALUE IS	127.94070	ON 93081820: AT (	375100.00,	4751775.00,	1356.00,	.00)	DC	
G57	HIGH	1ST HIGH VALUE IS	86.48568	ON 93091919: AT (	373700.00,	4749700.00,	1412.00,	.00)	DC	
G58	HIGH	1ST HIGH VALUE IS	86.48569	ON 93010404: AT (	373700.00,	4749700.00,	1412.00,	.00)	DC	
G59	HIGH	1ST HIGH VALUE IS	41.45640	ON 93050920: AT (	375700.00,	4751700.00,	1430.00,	.00)	DC	

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

*** MODELING OPTIONS USED: CONC RURAL ELEV

*** Message Summary For ISC2 Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 2 Informational Message(s)

A Total of 2 Calm Hours Identified

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

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCST2 Finishes Successfully ***
****

Appendix AH-2
FDM for PM_{10} with Unitary Emission Rates (ISC2 and FDM receptors)

```
         1         1
EMF full grid PM10 size fraction 1993-94 met data (O to S rev. 3/20/95)
 1 2 1 1 2 1 3 1 1 1 3 1 0 1
   60  120    3 2160
        60        25         1       1.0     18.90
111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111110
       2.5       5.0      10.0
       0.0       0.0       1.0
    6200      2100
    5000      1800
    7900      4300
    7950      1300
    1650     -1600
  -13000     -7000
    6450      0540
   -5300     -3300
   -5300      8700
   -3300     -7300
   -3300      8700
     700     -2300
     700     -1300
     700      -300
     700       700
     700      1700
     700      2700
     700      4700
    1760       600
    2700     -3300
    2700     -2300
    2700     -1300
    2700      -300
    2700      1700
    2700      2700
    2700      3700
    2700      4700
    3200      -800
    3200       200
    3200      1200
    3200      2200
    3700     -1300
    3700      -300
    3700      1700
    4200      -800
    4200      2200
    4700     -1300
    4700      -300
    4700      1700
    4700      2700
    4700      3700
    4700      4700
    5200      -800
    5200      2200
    5700      -300
    5700      1700
    6200      -800
    6300      2400
```

6700	-300
6700	700
6700	1700
6700	2700
6700	3700
6700	4700
6700	8700
7200	2200
8700	-2300
8700	-1300
8700	-300
8700	700
8700	1700
8700	2700
8700	3700
8700	4700
9400	3600
10700	-3300
10700	-1300
10700	700
10700	2700
10700	4700
10700	6700
10700	8700
10889	-2219
12700	-1300
12700	700
12700	2700
12700	4700
12700	6700
12700	8700
12800	-3600
-10000	-5000
-10000	0000
-5300	0700
-5300	4700
-3300	6700
700	8700
-1300	2700
2700	6700
-1300	-5300
-1300	-1300
6150	2050
6200	2050
6250	2050
6100	2100
6150	2100
6250	2100
6150	2150
6200	2150
6250	2150
4900	1750
4950	1775
5000	1790
5050	1775
5100	1775
5050	1800
5100	1800
4950	1850
5000	1850

```
    5050     1850
    5100     1850
    6400      490
    6450      490
    6500      490
    6400      540
    6500      540
    6550      540
    6400      590
    6450      590
    6500      590
    6450      640
SLAGPILE
431   1              4318.0    0610.0    700.0     780.0    20.0     5.0
      0.21     0.32     0.47
FERRPHOS
431   1              3810.0    1010.0     80.0      40.0     5.0    150.
      0.36     0.28     0.36
OVERSIZE
431   1              4850.0    0700.0    200.0     160.0    20.0     0.0
      0.27     0.32     0.41
CALC1
431   1              4520.0    1350.0    50.0       10.0     6.0    17.5
      0.31     0.26     0.43
CALC2
431   1              4534.0    1306.0    50.0       10.0     6.0    17.5
      0.31     0.26     0.43
COOL1
431   1              4559.5    1363.0    38.0        8.0     6.0    17.5
      0.31     0.26     0.43
COOL2
431   1              4573.0    1317.0    38.0        8.0     6.0    17.5
      0.31     0.26     0.43
DISCHBH
431   1              4633.0    1374.0    15.0       15.0     6.0    17.5
      0.00     0.00     1.00
DUSTSILO
431   1              4485.0    1425.5    10.0        8.0    10.0    17.5
      0.00     0.00     1.00
PHOSDOCK
431   1              4420.0    1467.0    40.0       30.0     2.0    17.5
       1.0      0.0      0.0
ORE REC
 31   1              4421.0    1570.0    15.0       14.0     0.0    17.5
      0.31     0.33     0.36
SILICAHD
431   1              4611.0    1461.0     8.0        4.0     5.5    17.5
      0.31     0.26     0.43
COKEHAND
 31   1              4549.0    1460.2     5.0        4.0     0.0    17.5
      0.39     0.23     0.39
SLAGPIT
431   1              4400.0    1330.0    110.0      67.0    20.0    17.5
      0.00     0.00     1.00
PROPBLDG
431   1              4557.0    1440.8     38.1      14.6    20.0    17.5
      0.00     0.00     1.00
FURNACE
431   1              4393.5    1389.0    128.6      28.0    20.0    17.5
      0.89     0.07     0.04
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BRIQUETE
431   1              4489.0    1375.0    36.6     35.4    20.0    17.5
      0.31     0.26     0.43
RDPIT
 31   1              4400.0    1330.0    67.3     67.3     0.0    17.5
      0.25     0.34     0.41
RDPILE
431   1              4318.0    0610.0    74.6     74.6    20.0     0.0
      0.27     0.36     0.36
RDORE
 31   1              4769.0    1598.0    49.0     49.0     0.0    14.0
      0.22     0.34     0.44
RDPOND
 31   1              3574.0    0698.0   128.4    128.4     0.0    23.0
      0.27     0.31     0.42
OREHAND
431   1              4769.0    1598.0   550.0    155.0     8.0    14.0
      0.29     0.33     0.37
S&NODULE
431   1              4808.0    1402.0   167.0     84.5     6.0    22.0
      0.36     0.28     0.36
CPOND1C
 30   1              4866.0    1111.0    95.0     95.0    20.0     0.0
CPOND2C
 30   1              4770.0    1120.0    61.0    105.0    20.0     0.0
CPOND3C
 30   1              4770.0    0989.0    84.0    132.0    20.0     0.0
CPOND4C
 30   1              4877.0    0996.0    75.0    111.0    20.0     0.0
SUNPOND
 30   1              4831.3    0850.0   182.9    121.9    20.0     0.0
PHOSACID
 31   1              5585.1    1627.0    30.2     12.0    13.0   -17.1  2.5
      0.0      0.0       1.0
GRN1LOAD
 31   1              5258.4    1741.0    15.2     12.6     2.0   -17.1
      0.07     0.27     0.67
GRN1PLNT
331   1              5413.9    1637.0    34.6     15.6    11.8   -17.1
      0.0      0.0       1.0
GRN2LOAD
 31   1              5226.8    1671.0    25.8      9.0     2.0   -17.1
      0.07     0.27     0.67
GRN2PLNT
331   1              5393.6    1584.0    32.7     15.2    15.0   -17.1
      0.0      0.0       1.0
ASLOAD
 31   1              5353.6    1556.0    27.3     19.2     2.0   -17.1
      0.07     0.27     0.67
ASPLANT
331   1              5422.0    1583.0    19.5     10.1    10.7   -17.1
      0.0      0.0       1.0
GRN3LOAD
 31   1              5825.1    1618.0    14.3      8.7     2.0   -17.1
      0.07     0.27     0.67
GRN3PLNT
331   1              5715.4    1622.0    67.4     45.0     8.4   -17.1
      0.0      0.0       1.0
NGYPPOND
 30   1              6083.7    1060.6   244.8    244.8    12.0     0.0
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MGYPPOND
 30   1              6022.8     0298.4     173.1      173.1      20.0     0.0
SGYPPOND
 30   1              5078.1     0025.3     244.8      244.8      20.0     0.0
SGYP1
 21   1              4955.7     0153.4     5310.4     0800.5     20.0    4.57
      0.0       0.0       1.0
SGYP2
 21   1              5310.4     0800.5     6240.9     0595.9     20.0    4.57
      0.0       0.0       1.0
NGYP
 21   1              5452.2     1117.7     6332.7     1268.0     12.0    4.57
      0.0       0.0       1.0
TSPRD
 21   1              5899.1     1641.0     5657.5     1719.0      0.0    5.79
      0.28      0.33      0.39
COOLRD
 21   1              5899.1     1641.0     5745.8     1342.0      0.0    5.79
      0.28      0.33      0.39
AIRCORD
 21   1              5745.8     1342.0     5405.8     1415.0      0.0    5.79
      0.28      0.33      0.39
SULFURRD
 21   1              5407.5     1480.0     5187.5     1554.0      0.0    5.79
      0.30      0.33      0.36
GRANRD
 21   1              5185.8     1737.0     5187.5     1554.0      0.0    5.79
      0.30      0.33      0.36
EWIGYPRD
 21   1              5781.7     1382.2     5429.1     1116.9      0.0    5.79
      0.25      0.31      0.44
GYPTO1RD
 21   1              5429.1     1116.9     6200.5     0862.9      5.0    5.79
      0.25      0.31      0.44
RD12
 21   1              6200.5     0862.9     6240.9     1011.8     10.0    5.79
      0.25      0.31      0.44
RD23
 21   1              6240.9     1011.8     6582.1     1011.8     15.0    5.79
      0.25      0.31      0.44
RD3MET
 21   1              6582.1     1011.8     6519.1     0605.7     20.0    5.79
      0.25      0.31      0.44
SLAG1
331   1              3420.5     1054.0     175.2      115.4       5.0   90.0
      0.21      0.32      0.47
SLAG2
331   1              3681.6     1123.0     125.0       78.4       5.0   74.97
      0.21      0.32      0.47
SLAG3
 31   1              3636.6     1101.0      72.7       33.5       0.0   146.2
      0.21      0.32      0.47
COKE1
331   1              3582.4     0886.0     231.1      116.3       5.0   44.44
      0.39      0.23      0.39
COKE2
 31   1              3624.9     0930.0     100.1      31.13       0.0   49.21
      0.39      0.23      0.39
ASPHALT1
331   1              3868.3     1249.0     165.4      154.9       5.0    9.34
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     0.06      0.19      0.75
ASPHALT2
 31  1              3844.9     1275.0      53.7      39.9      0.0  11.22
     0.06      0.19      0.75
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FUGITIVE DUST MODEL (FDM)
VERSION 94040
FEB, 1994

DATE AT START OF RUN: 3/19/1995 TIME AT START OF RUN: 9:14:53

RUN TITLE:
EMF full grid PM10 size fraction 1993-94 met data (O to S rev. 3/20/95)

INPUT FILE NAME: ff3mxpm0.IN
OUTPUT FILE NAME: ff3mxpm0.OUT
MET DATA READ FROM FILE NAME: ff3mxpm0.MET
POST-PROCESSOR OUTPUT WRITTEN TO FILE NAME: ff3mxpm0.CON

CONVERGENCE OPTION 1=OFF, 2=ON	1
MET OPTION SWITCH, 1=CARDS, 2=PREPROCESSED	2
PLOT FILE OUTPUT, 1=NO, 2=YES	1
MET DATA PRINT SWITCH, 1=NO, 2=YES	1
POST-PROCESSOR OUTPUT, 1=NO, 2=YES	2
DEP. VEL./GRAV. SETL. 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	1
READ HOURLY EMISSION RATES, 1=NO, 2=YES	0
NUMBER OF SOURCES PROCESSED	60
NUMBER OF RECEPTORS PROCESSED	120
NUMBER OF PARTICLE SIZE CLASSES	3
NUMBER OF HOURS OF MET DATA PROCESSED	8760
LENGTH IN MINUTES OF 1-HOUR OF MET DATA	60.
ROUGHNESS LENGTH IN CM	25.00
SCALING FACTOR FOR SOURCE AND RECPTORS	1.0000
PARTICLE DENSITY IN G/CM**3	1.00
ANEMOMETER HEIGHT IN M	18.90

PREPROCESSED METEOROLOGICAL DATA SELECTION SWITCHES
111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111111111111110

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	2.5000000	**	**	.0000
2	5.0000000	**	**	.0000
3	10.0000000	**	**	1.0000

** COMPUTED BY FDM

1

RECEPTOR COORDINATES (X,Y,Z)

(6200.,	2100.,	0.)	(5000.,	1800.,	0.)	(7900.,	4300.,	0.)
(7950.,	1300.,	0.)	(1650.,	-1600.,	0.)	(-13000.,	-7000.,	0.)
(6450.,	540.,	0.)	(-5300.,	-3300.,	0.)	(-5300.,	8700.,	0.)
(-3300.,	-7300.,	0.)	(-3300.,	8700.,	0.)	(700.,	-2300.,	0.)
(700.,	-1300.,	0.)	(700.,	-300.,	0.)	(700.,	700.,	0.)
(700.,	1700.,	0.)	(700.,	2700.,	0.)	(700.,	4700.,	0.)
(1760.,	600.,	0.)	(2700.,	-3300.,	0.)	(2700.,	-2300.,	0.)
(2700.,	-1300.,	0.)	(2700.,	-300.,	0.)	(2700.,	1700.,	0.)
(2700.,	2700.,	0.)	(2700.,	3700.,	0.)	(2700.,	4700.,	0.)
(3200.,	-800.,	0.)	(3200.,	200.,	0.)	(3200.,	1200.,	0.)
(3200.,	2200.,	0.)	(3700.,	-1300.,	0.)	(3700.,	-300.,	0.)
(3700.,	1700.,	0.)	(4200.,	-800.,	0.)	(4200.,	2200.,	0.)
(4700.,	-1300.,	0.)	(4700.,	-300.,	0.)	(4700.,	1700.,	0.)
(4700.,	2700.,	0.)	(4700.,	3700.,	0.)	(4700.,	4700.,	0.)
(5200.,	-800.,	0.)	(5200.,	2200.,	0.)	(5700.,	-300.,	0.)
(5700.,	1700.,	0.)	(6200.,	-800.,	0.)	(6300.,	2400.,	0.)
(6700.,	-300.,	0.)	(6700.,	700.,	0.)	(6700.,	1700.,	0.)
(6700.,	2700.,	0.)	(6700.,	3700.,	0.)	(6700.,	4700.,	0.)
(6700.,	8700.,	0.)	(7200.,	2200.,	0.)	(8700.,	-2300.,	0.)
(8700.,	-1300.,	0.)	(8700.,	-300.,	0.)	(8700.,	700.,	0.)
(8700.,	1700.,	0.)	(8700.,	2700.,	0.)	(8700.,	3700.,	0.)
(8700.,	4700.,	0.)	(9400.,	3600.,	0.)	(10700.,	-3300.,	0.)
(10700.,	-1300.,	0.)	(10700.,	700.,	0.)	(10700.,	2700.,	0.)
(10700.,	4700.,	0.)	(10700.,	6700.,	0.)	(10700.,	8700.,	0.)
(10889.,	-2219.,	0.)	(12700.,	-1300.,	0.)	(12700.,	700.,	0.)
(12700.,	2700.,	0.)	(12700.,	4700.,	0.)	(12700.,	6700.,	0.)
(12700.,	8700.,	0.)	(12800.,	-3600.,	0.)	(-10000.,	-5000.,	0.)
(-10000.,	0.,	0.)	(-5300.,	700.,	0.)	(-5300.,	4700.,	0.)
(-3300.,	6700.,	0.)	(700.,	8700.,	0.)	(-1300.,	2700.,	0.)
(2700.,	6700.,	0.)	(-1300.,	-5300.,	0.)	(-1300.,	-1300.,	0.)
(6150.,	2050.,	0.)	(6200.,	2050.,	0.)	(6250.,	2050.,	0.)
(6100.,	2100.,	0.)	(6150.,	2100.,	0.)	(6250.,	2100.,	0.)
(6150.,	2150.,	0.)	(6200.,	2150.,	0.)	(6250.,	2150.,	0.)
(4900.,	1750.,	0.)	(4950.,	1775.,	0.)	(5000.,	1790.,	0.)
(5050.,	1775.,	0.)	(5100.,	1775.,	0.)	(5050.,	1800.,	0.)
(5100.,	1800.,	0.)	(4950.,	1850.,	0.)	(5000.,	1850.,	0.)
(5050.,	1850.,	0.)	(5100.,	1850.,	0.)	(6400.,	490.,	0.)
(6450.,	490.,	0.)	(6500.,	490.,	0.)	(6400.,	540.,	0.)
(6500.,	540.,	0.)	(6550.,	540.,	0.)	(6400.,	590.,	0.)
(6450.,	590.,	0.)	(6500.,	590.,	0.)	(6450.,	640.,	0.)

1

SOURCE INFORMATION

SOURCE NAME	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)
SLAGPILE	3	1.000000000	**********	.000	4318.	610.	700.	780.	20.00	5.00
****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:										
.2100 .3200 .4700										
FERRPHOS	3	1.000000000	3200.00000	.000	3810.	1010.	80.	40.	5.00	150.00
****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:										
.3600 .2800 .3600										
OVERSIZE	3	1.000000000	**********	.000	4850.	700.	200.	160.	20.00	.00

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          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2700  .3200  .4100
CALC1                3     1.000000000  500.00000   .000   4520.    1350.     50.      10.    6.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3100  .2600  .4300
CALC2                3     1.000000000  500.00000   .000   4534.    1306.     50.      10.    6.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3100  .2600  .4300
COOL1                3     1.000000000  304.00000   .000   4560.    1363.     38.       8.    6.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3100  .2600  .4300
COOL2                3     1.000000000  304.00000   .000   4573.    1317.     38.       8.    6.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3100  .2600  .4300
DISCHBH              3     1.000000000  225.00000   .000   4633.    1374.     15.      15.    6.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
DUSTSILO             3     1.000000000   80.00000   .000   4485.    1426.     10.       8.   10.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
PHOSDOCK             3     1.000000000 1200.00000   .000   4420.    1467.     40.      30.    2.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
           1.0000  .0000  .0000
OREREC               3     1.000000000  210.00000   .000   4421.    1570.     15.      14.     .50   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3100  .3300  .3600
SILICAHD             3     1.000000000   32.00000   .000   4611.    1461.      8.       4.    5.50   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3100  .2600  .4300
COKEHAND             3     1.000000000   20.00000   .000   4549.    1460.      5.       4.     .50   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3900  .2300  .3900
SLAGPIT              3     1.000000000 7370.00000   .000   4400.    1330.    110.      67.   20.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
PROPBLDG             3     1.000000000  556.26000   .000   4557.    1441.     38.      15.   20.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
FURNACE              3     1.000000000 3600.80000   .000   4394.    1389.    129.      28.   20.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .8900  .0700  .0400
BRIQUETE             3     1.000000000 1295.64000   .000   4489.    1375.     37.      35.   20.00   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3100  .2600  .4300
RDPIT                3     1.000000000 4529.29100   .000   4400.    1330.     67.      67.     .50   17.50
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2500  .3400  .4100
RDPILE               3     1.000000000 5565.16000   .000   4318.     610.     75.      75.   20.00     .00
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2700  .3600  .3600
RDORE                3     1.000000000 2401.00000   .000   4769.    1598.     49.      49.     .50   14.00
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2200  .3400  .4400
RDPOND               3     1.000000000 **********   .000   3574.     698.    128.     128.     .50   23.00
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2700  .3100  .4200
OREHAND              3     1.000000000 **********   .000   4769.    1598.    550.     155.    8.00   14.00
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2900  .3300  .3700
S&NODULE             3     1.000000000 **********   .000   4808.    1402.    167.      85.    6.00   22.00
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          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3600  .2800  .3600
CPOND1C              3     1.000000000 9025.00000   .000   4866.    1111.     95.      95.   20.00     .00
CPOND2C              3     1.000000000 6405.00000   .000   4770.    1120.     61.     105.   20.00     .00
CPOND3C              3     1.000000000 **********   .000   4770.     989.     84.     132.   20.00     .00
CPOND4C              3     1.000000000 8325.00000   .000   4877.     996.     75.     111.   20.00     .00
SUNPOND              3     1.000000000 **********   .000   4831.     850.    183.     122.   20.00     .00
PHOSACID             3     1.000000000  362.40000   .000   5585.    1627.     30.      12.   13.00  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
GRN1LOAD             3     1.000000000  191.52000   .000   5258.    1741.     15.      13.    2.00  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0700  .2700  .6700
GRN1PLNT             3     1.000000000  539.76000   .000   5414.    1637.     35.      16.   11.80  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
GRN2LOAD             3     1.000000000  232.20000   .000   5227.    1671.     26.       9.    2.00  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0700  .2700  .6700
GRN2PLNT             3     1.000000000  497.04000   .000   5394.    1584.     33.      15.   15.00  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
ASLOAD               3     1.000000000  524.16000   .000   5354.    1556.     27.      19.    2.00  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0700  .2700  .6700
ASPLANT              3     1.000000000  196.95000   .000   5422.    1583.     20.      10.   10.70  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
GRN3LOAD             3     1.000000000  124.41000   .000   5825.    1618.     14.       9.    2.00  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0700  .2700  .6700
GRN3PLNT             3     1.000000000 3033.00000   .000   5715.    1622.     67.      45.    8.40  -17.10
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
NGYPPOND             3     1.000000000 **********   .000   6084.    1061.    245.     245.   12.00     .00
MGYPPOND             3     1.000000000 **********   .000   6023.     298.    173.     173.   20.00     .00
SGYPPOND             3     1.000000000 **********   .000   5078.      25.    245.     245.   20.00     .00
SGYP1                2     1.000000000  737.93650   .000   4956.     153.   5310.     801.   20.00    4.57
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
SGYP2                2     1.000000000  952.72840   .000   5310.     801.   6241.     596.   20.00    4.57
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
NGYP                 2     1.000000000  893.23590   .000   5452.    1118.   6333.    1268.   12.00    4.57
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .0000  .0000 1.0000
TSPRD                2     1.000000000  253.87910   .000   5899.    1641.   5658.    1719.     .50    5.79
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2800  .3300  .3900
COOLRD               2     1.000000000  336.00890   .000   5899.    1641.   5746.    1342.     .50    5.79
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2800  .3300  .3900
AIRCORD              2     1.000000000  347.74850   .000   5746.    1342.   5406.    1415.     .50    5.79
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .2800  .3300  .3900
SULFURRD             2     1.000000000  232.11200   .000   5408.    1480.   5188.    1554.     .50    5.79
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
            .3000  .3300  .3600
GRANRD               2     1.000000000  183.00790   .000   5186.    1737.   5188.    1554.     .50    5.79
          ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
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          .3000  .3300  .3600
EWIGYPRD              2     1.000000000  441.26060   .000   5782.    1382.   5429.    1117.     .50    5.79
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .2500  .3100  .4400
GYPTO1RD              2     1.000000000  812.14150   .000   5429.    1117.   6201.     863.    5.00    5.79
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .2500  .3100  .4400
RD12                  2     1.000000000  154.28330   .000   6201.     863.   6241.    1012.   10.00    5.79
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .2500  .3100  .4400
RD23                  2     1.000000000  341.20020   .000   6241.    1012.   6582.    1012.   15.00    5.79
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .2500  .3100  .4400
RD3MET                2     1.000000000  410.95760   .000   6582.    1012.   6519.     606.   20.00    5.79
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .2500  .3100  .4400
SLAG1                 3     1.000000000 **********   .000   3421.    1054.    175.     115.    5.00   90.00
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .2100  .3200  .4700
SLAG2                 3     1.000000000 9800.00000   .000   3682.    1123.    125.      78.    5.00   74.97
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .2100  .3200  .4700
SLAG3                 3     1.000000000 2435.45000   .000   3637.    1101.     73.      34.     .50  146.20
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .2100  .3200  .4700
COKE1                 3     1.000000000 **********   .000   3582.     886.    231.     116.    5.00   44.44
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .3900  .2300  .3900
COKE2                 3     1.000000000 3116.11300   .000   3625.     930.    100.      31.     .50   49.21
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .3900  .2300  .3900
ASPHALT1              3     1.000000000 **********   .000   3868.    1249.    165.     155.    5.00    9.34
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .0600  .1900  .7500
ASPHALT2              3     1.000000000 2142.63000   .000   3845.    1275.     54.      40.     .50   11.22
        ****SOURCE RE-SIZED, SIZE DISTRIBUTION BY CLASS IS:
          .0600  .1900  .7500
                                          ==========
                  TOTAL EMISSIONS       .10347E+07 GRAMS/SEC

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

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 TOP 50 TABLE FOR  1 HOUR AVERAGES
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RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	102	5000.0	1790.0	1579	53238810.0000	192653.7000
2	102	5000.0	1790.0	7170	51597580.0000	193496.5000
3	2	5000.0	1800.0	1579	51086820.0000	185009.6000
4	2	5000.0	1800.0	7170	50911550.0000	190918.9000
5	103	5050.0	1775.0	1579	49798100.0000	181030.4000
6	105	5050.0	1800.0	1579	49332430.0000	179034.6000
7	102	5000.0	1790.0	6427	47771740.0000	200910.0000
8	109	5050.0	1850.0	1579	47648680.0000	172606.4000
9	2	5000.0	1800.0	6427	47600870.0000	200106.0000

10	100	4900.0	1750.0	7170	46252610.0000	174830.5000
11	100	4900.0	1750.0	1579	46004700.0000	168062.3000
12	101	4950.0	1775.0	7170	45296560.0000	170608.3000
13	105	5050.0	1800.0	7170	45222950.0000	170957.1000
14	103	5050.0	1775.0	7170	45190240.0000	171323.8000
15	39	4700.0	1700.0	7170	45172110.0000	170998.0000
16	109	5050.0	1850.0	7170	44935400.0000	169155.2000
17	101	4950.0	1775.0	1579	44686860.0000	162802.4000
18	100	4900.0	1750.0	6427	44422160.0000	187457.2000
19	39	4700.0	1700.0	6427	43699040.0000	184872.5000
20	110	5100.0	1850.0	1579	43628450.0000	159146.0000
21	30	3200.0	1200.0	7868	43442580.0000	139849.9000
22	101	4950.0	1775.0	6427	43215630.0000	181915.9000
23	103	5050.0	1775.0	1532	42507700.0000	150754.3000
24	104	5100.0	1775.0	5403	42382350.0000	163560.1000
25	100	4900.0	1750.0	2764	42377400.0000	150386.8000
26	30	3200.0	1200.0	8643	42330420.0000	146829.6000
27	30	3200.0	1200.0	8620	42284780.0000	138259.5000
28	30	3200.0	1200.0	7535	42221160.0000	148156.3000
29	39	4700.0	1700.0	1579	42142700.0000	154803.9000
30	30	3200.0	1200.0	7540	42017690.0000	142252.7000
31	108	5000.0	1850.0	7170	41902560.0000	157757.6000
32	107	4950.0	1850.0	7170	40894330.0000	154505.8000
33	103	5050.0	1775.0	8355	40871090.0000	133021.4000
34	105	5050.0	1800.0	6427	40870880.0000	173958.6000
35	109	5050.0	1850.0	6427	40853180.0000	172950.7000
36	107	4950.0	1850.0	1579	40829580.0000	148988.8000
37	103	5050.0	1775.0	6427	40783780.0000	174146.6000
38	108	5000.0	1850.0	6427	40775740.0000	171717.0000
39	30	3200.0	1200.0	6316	40765870.0000	161525.0000
40	108	5000.0	1850.0	1579	40669040.0000	148087.8000
41	106	5100.0	1800.0	1579	40659520.0000	149736.8000
42	102	5000.0	1790.0	2691	40518990.0000	161207.6000
43	100	4900.0	1750.0	4827	40333580.0000	161929.1000
44	2	5000.0	1800.0	2691	40242270.0000	160066.8000
45	103	5050.0	1775.0	4827	40097830.0000	160069.4000
46	104	5100.0	1775.0	4827	40034340.0000	159805.0000
47	30	3200.0	1200.0	7915	39733740.0000	121014.8000
48	104	5100.0	1775.0	6307	39487560.0000	164329.6000
49	101	4950.0	1775.0	2764	39431770.0000	139584.6000
50	103	5050.0	1775.0	2764	39409280.0000	138418.1000

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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	DEPOSTION
1	6200.0	2100.0	17191360.0000	8355.	63499.1300	14172540.0000	6531.	60249.0800
2	5000.0	1800.0	51086820.0000	1579.	185009.6000	50911550.0000	7170.	190918.9000
3	7900.0	4300.0	7410810.0000	2764.	26815.1700	5999954.0000	6531.	23236.7200
4	7950.0	1300.0	13430510.0000	7442.	51458.9800	12497180.0000	1080.	47341.8700
5	1650.0	-1600.0	12391670.0000	7878.	35695.3100	12353410.0000	7919.	36659.1300
6	-13000.0	-7000.0	1132806.0000	8719.	3460.2820	1102191.0000	7491.	3451.0710
7	6450.0	540.0	17634580.0000	7032.	64154.1400	17559810.0000	8612.	57804.5300
8	-5300.0	-3300.0	2944373.0000	8714.	9737.5420	2860317.0000	8719.	9064.6010
9	-5300.0	8700.0	2410249.0000	7917.	6862.9880	2051854.0000	7759.	6793.6100
10	-3300.0	-7300.0	2770632.0000	8588.	8633.8740	2753994.0000	7890.	7573.4310

11	-3300.0	8700.0	2420540.0000	1580.	8799.8730	2046849.0000	8450.	7444.2610
12	700.0	-2300.0	9124550.0000	7878.	25720.7000	9057128.0000	7919.	26291.6300
13	700.0	-1300.0	9346299.0000	7543.	31584.0800	8642456.0000	5958.	33963.4600
14	700.0	-300.0	11088910.0000	771.	36853.5900	10767530.0000	798.	34635.6700
15	700.0	700.0	11749180.0000	8427.	38029.6300	11681560.0000	8589.	38145.5000
16	700.0	1700.0	12501940.0000	7875.	36154.7700	11744120.0000	7902.	33576.9400
17	700.0	2700.0	10964790.0000	7868.	35054.9900	10422590.0000	8643.	35949.2500
18	700.0	4700.0	6012471.0000	7613.	20368.3200	5949608.0000	1580.	22655.2200
19	1760.0	600.0	16026960.0000	722.	51802.6900	15900240.0000	8430.	51680.8800
20	2700.0	-3300.0	10362130.0000	7926.	29144.9800	9630569.0000	8133.	31599.5400
21	2700.0	-2300.0	14074900.0000	7903.	38481.3700	12942000.0000	8136.	41783.8300
22	2700.0	-1300.0	16913540.0000	7870.	51535.5400	16405480.0000	7890.	50353.4600
23	2700.0	-300.0	18930640.0000	7543.	64973.3100	18214400.0000	462.	63970.9000
24	2700.0	1700.0	21968360.0000	7917.	65226.9800	21527400.0000	8620.	71065.7300
25	2700.0	2700.0	15514240.0000	7613.	55834.0000	13793560.0000	4053.	60064.4700
26	2700.0	3700.0	10498870.0000	8498.	35930.1900	10370900.0000	835.	36909.1800
27	2700.0	4700.0	8137259.0000	7747.	28628.0900	7014114.0000	8498.	24854.4800
28	3200.0	-800.0	22159930.0000	7870.	68830.9100	22014070.0000	8550.	71887.2000
29	3200.0	200.0	26819350.0000	431.	96807.1200	26715280.0000	7470.	93929.8700
30	3200.0	1200.0	43442580.0000	7868.	139849.9000	42330420.0000	8643.	146829.6000
31	3200.0	2200.0	18869630.0000	6475.	83531.0800	18865070.0000	7613.	69247.0900
32	3700.0	-1300.0	19627790.0000	774.	60716.8300	17886200.0000	6939.	65510.6400
33	3700.0	-300.0	33816380.0000	7913.	107322.1000	33024290.0000	698.	113126.5000
34	3700.0	1700.0	30834570.0000	8498.	111842.9000	30236510.0000	7747.	115846.9000
35	4200.0	-800.0	25511640.0000	7874.	73728.6800	24284550.0000	869.	80014.2200
36	4200.0	2200.0	19667860.0000	8618.	63402.5200	18610040.0000	7614.	65241.2800
37	4700.0	-1300.0	17315370.0000	7923.	49435.2000	17035390.0000	8599.	51640.2800
38	4700.0	-300.0	29736420.0000	818.	98625.5200	29122320.0000	487.	98504.9800
39	4700.0	1700.0	45172110.0000	7170.	170998.0000	43699040.0000	6427.	184872.5000
40	4700.0	2700.0	18668200.0000	4971.	75521.3100	17931260.0000	5982.	71194.5400
41	4700.0	3700.0	12314400.0000	450.	45950.1300	12224930.0000	5982.	48494.0000
42	4700.0	4700.0	8593347.0000	450.	31918.4000	8454920.0000	5982.	33421.1100
43	5200.0	-800.0	20592130.0000	7279.	69520.0000	20454920.0000	1027.	69609.5200
44	5200.0	2200.0	29289530.0000	7170.	111052.9000	29212460.0000	1579.	106495.9000
45	5700.0	-300.0	27569350.0000	7898.	84401.0100	27050370.0000	8552.	95120.7700
46	5700.0	1700.0	21682430.0000	8355.	79978.5000	18956340.0000	1532.	74682.6600
47	6200.0	-800.0	20291020.0000	792.	71162.5200	19878800.0000	8425.	68730.0700
48	6300.0	2400.0	14249050.0000	2764.	55554.8000	13502460.0000	6531.	56431.0000
49	6700.0	-300.0	15367000.0000	7897.	45373.4100	15073110.0000	7542.	49790.3600
50	6700.0	700.0	14066460.0000	7032.	53380.5500	13542260.0000	8356.	47125.2600
51	6700.0	1700.0	12934480.0000	5403.	54171.9800	12296850.0000	6307.	55152.2800
52	6700.0	2700.0	11748040.0000	8355.	41059.0000	11386880.0000	6531.	47413.0700
53	6700.0	3700.0	9481793.0000	4827.	38850.2800	8262352.0000	3073.	35645.9500
54	6700.0	4700.0	8972434.0000	1579.	33190.5600	7074576.0000	7170.	27837.0800
55	6700.0	8700.0	2702471.0000	8477.	9744.7560	2630623.0000	7098.	11470.1500
56	7200.0	2200.0	10171050.0000	5403.	43096.5300	8869835.0000	6307.	39992.3900
57	8700.0	-2300.0	8634295.0000	7898.	25067.6900	7935283.0000	8622.	26296.6500
58	8700.0	-1300.0	8385486.0000	1998.	29418.7200	8319997.0000	77.	30369.3300
59	8700.0	-300.0	8984822.0000	821.	30099.8200	8590985.0000	646.	31638.4100
60	8700.0	700.0	7959992.0000	8356.	28007.8100	7707733.0000	7032.	30891.9300
61	8700.0	1700.0	9617363.0000	1491.	38343.0800	9373263.0000	1080.	35657.6400
62	8700.0	2700.0	7195902.0000	5403.	30341.6900	6676990.0000	6307.	29923.3800
63	8700.0	3700.0	6806114.0000	1532.	25530.5400	5924084.0000	8355.	20965.2900
64	8700.0	4700.0	5832901.0000	2764.	21547.8200	5670921.0000	6531.	22435.5500
65	9400.0	3600.0	4953466.0000	8569.	16801.0500	4736776.0000	7782.	17514.5500
66	10700.0	-3300.0	5502734.0000	7898.	15876.0800	4972352.0000	8622.	16393.6300
67	10700.0	-1300.0	6526583.0000	7897.	19347.6400	5403323.0000	821.	17673.7800
68	10700.0	700.0	5379279.0000	8356.	19276.6600	5156752.0000	1993.	19652.5700
69	10700.0	2700.0	4617572.0000	6362.	19455.4000	4611375.0000	3077.	19552.8900
70	10700.0	4700.0	4111253.0000	1532.	15684.0200	3613474.0000	7782.	12808.2800

71	10700.0	6700.0	3573663.0000	2764.	12915.2100	3177353.0000	6531.	12279.0300
72	10700.0	8700.0	2462157.0000	4827.	9843.3280	2257528.0000	3073.	9472.4020
73	10889.0	-2219.0	5047689.0000	1998.	17641.9600	4975287.0000	77.	18091.6200
74	12700.0	-1300.0	4164339.0000	821.	13601.1800	3722573.0000	532.	12985.0300
75	12700.0	700.0	3817341.0000	8356.	13675.2900	3677351.0000	1993.	13879.6700
76	12700.0	2700.0	3723362.0000	1491.	13960.3100	3568363.0000	1080.	12579.1500
77	12700.0	4700.0	3074496.0000	5403.	12672.9300	2810976.0000	6307.	12316.3200
78	12700.0	6700.0	2667868.0000	8355.	9358.5470	2597052.0000	1532.	9306.4640
79	12700.0	8700.0	2357436.0000	2764.	8393.3290	1933068.0000	6531.	7362.6040
80	12800.0	-3600.0	4044801.0000	7871.	11810.5100	3992826.0000	7896.	11612.5500
81	-10000.0	-5000.0	1593000.0000	8714.	5065.4420	1550220.0000	8350.	5013.6590
82	-10000.0	.0	1973538.0000	722.	5910.4770	1958283.0000	8430.	5916.9880
83	-5300.0	700.0	3626310.0000	8589.	11532.0800	3613301.0000	8427.	11290.4700
84	-5300.0	4700.0	3344257.0000	7915.	9828.6160	2962240.0000	8571.	9286.5630
85	-3300.0	6700.0	3757260.0000	7917.	10787.0500	3215228.0000	459.	10811.8000
86	700.0	8700.0	3503195.0000	8498.	11818.2100	2626002.0000	6379.	11405.2100
87	-1300.0	2700.0	5980394.0000	650.	21236.0800	5899965.0000	1684.	21841.0500
88	2700.0	6700.0	5222383.0000	3389.	19809.0100	5185067.0000	7555.	19192.1300
89	-1300.0	-5300.0	4394535.0000	7890.	12407.5500	4197217.0000	8588.	13344.8400
90	-1300.0	-1300.0	6259873.0000	439.	21116.2400	6203050.0000	8129.	21768.8000
91	6150.0	2050.0	17756280.0000	8355.	65806.4400	14596540.0000	6531.	62210.9100
92	6200.0	2050.0	17732890.0000	8355.	65928.5500	14892550.0000	1532.	58926.3100
93	6250.0	2050.0	17399770.0000	8355.	64597.1300	15369410.0000	1532.	61180.7100
94	6100.0	2100.0	16909150.0000	8355.	61795.9300	15140200.0000	6531.	64229.2300
95	6150.0	2100.0	17090770.0000	8355.	62824.1800	14708510.0000	6531.	62505.1300
96	6250.0	2100.0	17170600.0000	8355.	63613.3400	14179190.0000	1532.	55829.0100
97	6150.0	2150.0	16312080.0000	8355.	59404.3100	14778450.0000	6531.	62605.6600
98	6200.0	2150.0	16533370.0000	8355.	60575.6300	14341400.0000	6531.	60841.4800
99	6250.0	2150.0	16653660.0000	8355.	61311.6200	13790080.0000	6531.	58497.2300
100	4900.0	1750.0	46252610.0000	7170.	174830.5000	46004700.0000	1579.	168062.3000
101	4950.0	1775.0	45296560.0000	7170.	170608.3000	44686860.0000	1579.	162802.4000
102	5000.0	1790.0	53238810.0000	1579.	192653.7000	51597580.0000	7170.	193496.5000
103	5050.0	1775.0	49798100.0000	1579.	181030.4000	45190240.0000	7170.	171323.8000
104	5100.0	1775.0	42382350.0000	5403.	163560.1000	40034340.0000	4827.	159805.0000
105	5050.0	1800.0	49332430.0000	1579.	179034.6000	45222950.0000	7170.	170957.1000
106	5100.0	1800.0	40659520.0000	1579.	149736.8000	38473040.0000	4827.	153529.8000
107	4950.0	1850.0	40894330.0000	7170.	154505.8000	40829580.0000	1579.	148988.8000
108	5000.0	1850.0	41902560.0000	7170.	157757.6000	40775740.0000	6427.	171717.0000
109	5050.0	1850.0	47648680.0000	1579.	172606.4000	44935400.0000	7170.	169155.2000
110	5100.0	1850.0	43628450.0000	1579.	159146.0000	38282410.0000	7170.	146223.2000
111	6400.0	490.0	18366400.0000	8612.	59537.5000	17674350.0000	7084.	64234.6100
112	6450.0	490.0	17978980.0000	8612.	58372.7000	17356470.0000	7084.	63101.4900
113	6500.0	490.0	17597930.0000	8612.	57231.0700	17044300.0000	7084.	61993.9300
114	6400.0	540.0	17993830.0000	8612.	59088.7200	17977180.0000	7032.	65362.1100
115	6500.0	540.0	17302540.0000	7032.	62989.6300	17193980.0000	7084.	62950.5700
116	6550.0	540.0	16981490.0000	7032.	61868.5900	16843620.0000	7084.	61743.4400
117	6400.0	590.0	18155700.0000	7032.	66524.5900	17698620.0000	7084.	65357.5900
118	6450.0	590.0	17766120.0000	7032.	65177.1300	17287750.0000	7084.	63943.8900
119	6500.0	590.0	17386900.0000	7032.	63861.3800	16886580.0000	7084.	62555.8500
120	6450.0	640.0	17297720.0000	7032.	64238.7400	16729100.0000	5957.	65768.7400

1

TOP 50 TABLE FOR LONG TERM AVERAGES

RANK	RECEPTOR	X-COORDINATE	Y-COORDINATE	ENDING HOUR	CONCENTRATION	DEPOSITION
1	39	4700.0	1700.0	8760C	2750006.0000	22160.4300

2	100	4900.0	1750.0	8760C	2113591.0000	20243.0100
3	30	3200.0	1200.0	8760C	1982110.0000	13294.3800
4	101	4950.0	1775.0	8760C	1426043.0000	15023.2600
5	103	5050.0	1775.0	8760C	1381560.0000	15709.6900
6	104	5100.0	1775.0	8760C	1296792.0000	15022.5100
7	102	5000.0	1790.0	8760C	1211346.0000	13322.3000
8	105	5050.0	1800.0	8760C	1164964.0000	13073.0700
9	106	5100.0	1800.0	8760C	1143694.0000	13090.8300
10	2	5000.0	1800.0	8760C	1135051.0000	12459.8700
11	110	5100.0	1850.0	8760C	895308.2000	10092.0800
12	109	5050.0	1850.0	8760C	884267.8000	9818.7640
13	108	5000.0	1850.0	8760C	867034.9000	9474.4430
14	107	4950.0	1850.0	8760C	852880.9000	9064.3130
15	46	5700.0	1700.0	8760C	846968.7000	9593.2950
16	24	2700.0	1700.0	8760C	790878.6000	5713.5700
17	34	3700.0	1700.0	8760C	739607.9000	5920.0340
18	38	4700.0	-300.0	8760C	629184.5000	3585.6170
19	45	5700.0	-300.0	8760C	602973.4000	3500.1970
20	29	3200.0	200.0	8760C	592615.2000	2831.7450
21	120	6450.0	640.0	8760C	511637.1000	5541.9070
22	117	6400.0	590.0	8760C	507416.3000	5670.2190
23	114	6400.0	540.0	8760C	498849.8000	5728.3880
24	118	6450.0	590.0	8760C	495299.2000	5502.1800
25	33	3700.0	-300.0	8760C	494416.2000	2646.7050
26	111	6400.0	490.0	8760C	490118.8000	5750.1000
27	7	6450.0	540.0	8760C	482362.2000	5471.4090
28	119	6500.0	590.0	8760C	480689.9000	5287.0110
29	112	6450.0	490.0	8760C	470110.5000	5407.9720
30	115	6500.0	540.0	8760C	465267.3000	5194.3520
31	113	6500.0	490.0	8760C	451734.0000	5081.3580
32	116	6550.0	540.0	8760C	447597.9000	4915.8280
33	50	6700.0	700.0	8760C	445003.8000	4695.7440
34	31	3200.0	2200.0	8760C	408425.8000	3364.0220
35	36	4200.0	2200.0	8760C	378613.1000	3304.0680
36	47	6200.0	-800.0	8760C	326916.5000	1714.3740
37	49	6700.0	-300.0	8760C	314893.4000	1919.6750
38	43	5200.0	-800.0	8760C	306084.2000	1718.0160
39	35	4200.0	-800.0	8760C	303499.6000	1760.4650
40	91	6150.0	2050.0	8760C	301958.4000	4081.4720
41	44	5200.0	2200.0	8760C	300842.1000	3346.8340
42	94	6100.0	2100.0	8760C	295727.6000	3920.8470
43	92	6200.0	2050.0	8760C	295645.7000	4021.2870
44	95	6150.0	2100.0	8760C	290340.0000	3880.2420
45	93	6250.0	2050.0	8760C	289093.3000	3952.8280
46	1	6200.0	2100.0	8760C	284794.4000	3833.2830
47	51	6700.0	1700.0	8760C	284339.8000	4281.7030
48	97	6150.0	2150.0	8760C	279347.9000	3688.5690
49	96	6250.0	2100.0	8760C	279086.0000	3779.4980
50	98	6200.0	2150.0	8760C	274439.3000	3651.8070

DATE AT END OF RUN: 3/20/1995 TIME AT END OF RUN: 16:35:12

ELAPSED TIME FOR THIS RUN: .11282E+06 SECONDS

OR 31 HOURS 20 MINUTES 19.74 SECONDS

Appendix AH-3
POSTZ for PM_{10} Emissions (ISC2 and FDM Receptors)

```
Conversion factor for rads        1.0      (30x,F10.0)
Merge 2 models 1=1,2=2            2        (30x,20i5)
Concentration 1=con,2=dep         1
Do a culpability 0=no,1=yes       1
1-hr Start Day,Hr
Receptor #s
3-hr
Receptor #s
8-hr
Receptor #s
24-hr
Receptor #s
Monthly
Receptor #s
Period (days)
Quarterly
Receptor #s
Period (days)
Annual                            1    1
Receptor #s                       1    2    3    4    5    6    7
Period (days)                   365
idaily                            1
Receptor #s                       1    2    3    4    5    6    7
EMF full year met data PM10 annual EI and parameters (rev. 6/27/95)
 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1
    1 1993
  119
    1  8.88E-03
    2  4.30E-02
    3  1.16E-02
    4  8.69E-01
    5  8.69E-01
    6  5.53E-01
    7  5.53E-01
    8  2.07E-01
    9  2.53E-01
   10  1.42E-01
   11  2.13E-01
   12  1.10E-01
   13  1.10E-01
   14  2.26E-01
   15  1.72E-01
   16  2.90E-02
   17  2.98E-01
   18  1.63E-01
   19  1.27E-01
   20  1.54E-01
   21  8.22E-02
   22  1.11E-02
   23  1.11E-02
   24  4.78E-02
   25  4.78E-02
   26  4.78E-02
   27  4.78E-02
   28  5.23E-04
   29  3.35E-04
   30  9.19E-04
   31  5.62E-05
   32  6.91E-03
   33  4.83E-03
```

34	1.89E-03
35	1.05E-02
36	5.97E-02
37	3.26E-03
38	2.21E-01
39	6.07E-02
40	9.38E-03
41	2.43E-01
42	1.92E-01
43	3.99E-02
44	2.00E-01
45	8.66E-02
46	2.17E-02
47	1.20E-02
48	1.20E-02
49	5.98E-03
50	1.69E-01
51	2.54E-01
52	2.54E-01
53	1.06E-01
54	1.06E-01
55	0.00E+00
56	9.79E-02
57	4.21E-04
58	1.45E-04
59	1.56E-02
60	1.43E-06
61	7.26E-07
62	4.48E-05
63	5.89E-05
64	6.77E-05
65	2.11E-05
66	1.59E-05
67	3.08E-03
68	2.81E-03
69	4.24E-04
70	1.01E-04
71	9.25E-04
72	6.15E-02
73	8.58E-05
74	7.90E-04
75	6.93E-05
76	2.84E-06
77	4.34E-05
78	9.65E-05
79	7.75E-05
80	1.60E-05
81	3.75E-06
82	6.82E-06
83	0.00E+00
84	0.00E+00
85	0.00E+00
86	0.00E+00
87	0.00E+00
88	2.15E-06
89	1.68E-04
90	4.17E-04
91	1.22E-04
92	1.30E-04
93	6.26E-05

94	2.30E-05
95	2.07E-04
96	9.47E-06
97	0.00E+00
98	0.00E+00
99	0.00E+00
100	1.03E-04
101	7.95E-05
102	8.48E-05
103	4.67E-05
104	4.50E-05
105	4.44E-05
106	2.97E-05
107	3.81E-05
108	7.96E-05
109	1.53E-06
110	8.07E-06
111	3.65E-06
112	3.03E-06
113	5.95E-06
114	8.77E-06
115	3.12E-04
116	3.19E-06
117	1.01E-04
118	2.53E-06
119	2.19E-04

365

POSTZ - VERSION 1.0
A POST PROCESSOR FOR THE
SHORTZ AIR QUALITY MODEL
Aug, 1994 (BEI modified Microsoft 32-bit 8/25/94 (h2)

```
DATE AT START OF RUN:  6/28/1995   TIME AT START OF RUN:  9:43:43
POSTZ Input  file: pf3anpm0.PZI
POSTZ Output file: pf3anpm0.PZO
IMERGE =     2          1= 1 MODEL, 2= 2 MODELS
IPROC  =     1          1= CONCENTRATIONS, 2= DEPOSITION FLUXES
Conv Factor =   1.00

Partial Contribution File Created By Model Named: ISCST2
Input  Filename Used In ISCST2    : if93an0.inp
Output Filename Used In ISCST2    : if93an0.out
Met    Filename Used In ISCST2    : s19394xx.bin
Pcon   Filename Used In ISCST2    : if93an0.con

Partial Contribution File Created By Model Named: fdm_cmp
Input  Filename Used In fdm_cmp   : ff3mxpm0.IN
Output Filename Used In fdm_cmp   : ff3mxpm0.OUT
Met    Filename Used In fdm_cmp   : ff3mxpm0.MET
Pcon   Filename Used In fdm_cmp   : ff3mxpm0.CON
```


POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

```
POSTZ RUN TITLE:   EMF full year met data PM10 annual EI and parameters (rev. 6/27/95)
SHORTZ RUN TITLE:  EMF full grid PM10 size fraction 1993-94 met data (O to S rev. 3/20/95)

ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO)                                  0
ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO)                            0
ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO)                              0
ISW(4) SPECIFY BACKGROUND CONC/DEP FLUXS (0=NO,1=UNIFORM,2=BY RECEPTOR)   0
ISW(5) SCALE CONC/DEP FLUXS FOR SPECIFIC SOURCES (1=YES,0=NO)             1

1-HOUR AVERAGE ANALYSIS:
ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                 0
ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO)                                 0
ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                             0

3-HOUR AVERAGE ANALYSIS:
ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                 0
ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO)                                0
ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                            0

8-HOUR AVERAGE ANALYSIS:
ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                0
ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO)                                0
ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                            0

24-HOUR AVERAGE ANALYSIS:
ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                0
ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO)                                0
ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                            0

ANNUAL AVERAGE ANALYSIS:
ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO)                                1
```

```
                ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO)                    0
                ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                0

           USER-SPECIFIED AVERAGING TIME ANALYSIS
                ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO)                    0
                ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO)                    0
                ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)                0

                ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)         0
                ISW(25) CALMS POLICY (0=NO,1=YES)                             1


                JULIAN DAY FOR START OF ANALYSIS                              1
                YEAR FOR START OF ANALYSIS                                 1993
                JULIAN DAY FOR END OF ANALYSIS                              365
                YEAR FOR END OF ANALYSIS                                   1993
 Source Number  Source Name
-------------  -----------

      1        ESHALEBH
      2        MSHALEBH
      3        WSHALEBH
      4        CS1_1
      5        CS1_2
      6        CS2_1
      7        CS2_2
      8        CV1_1
      9        CV1_2
     10        CV2_1
     11        CV2_2
     12        DISCSBH
     13        DISCNBH
     14        ENODULEB
     15        WNODULEB
     16        STOCKPIL
     17        DUSTSILO
     18        EBURDEN
     19        WBURDEN
     20        COKEBAGH
     21        PHOSDOCK
     22        BOILER3
     23        BOILER4
     24        1FURTAPH
     25        2FURTAPH
     26        3FURTAPH
     27        4FURTAPH
     28        FUR1PRV
     29        FUR2PRV
     30        FUR3PRV
     31        FUR4PRV
     32        FUR1COF
     33        FUR2COF
     34        FUR3COF
     35        FUR4COF
     36        SECFLARE
     37        COFLARE
     38        PHOSACID
     39        GRAN1RNG
     40        GRAN1BAG
     41        GRAN1DRY
```

42	GRAN2TGS
43	GRAN2COL
44	GRAN3
45	ASDRYVSC
46	ASCOOLCY
47	CEBOILER
48	FWBOILER
49	KEBOILER
50	H2ONTWR
51	H2OETWR
52	H2OWTWR
53	AMMONIA1
54	AMMONIA2
55	SPA
56	TANKFARM
57	COKESCRU
58	COKEBH
59	DRUMBH
60	SLAGPILE
61	FERRPHOS
62	OVERSIZE
63	CALC1
64	CALC2
65	COOL1
66	COOL2
67	DISCHBH
68	DUSTSILO
69	PHOSDOCK
70	OREREC
71	SILICAHD
72	COKEHAND
73	SLAGPIT
74	PROPBLDG
75	FURNACE
76	BRIQUETE
77	RDPIT
78	RDPILE
79	RDORE
80	RDPOND
81	OREHAND
82	S&NODULE
83	CPOND1C
84	CPOND2C
85	CPOND3C
86	CPOND4C
87	SUNPOND
88	PHOSACID
89	GRN1LOAD
90	GRN1PLNT
91	GRN2LOAD
92	GRN2PLNT
93	ASLOAD
94	ASPLANT
95	GRN3LOAD
96	GRN3PLNT
97	NGYPPOND
98	MGYPPOND
99	SGYPPOND
100	SGYP1
101	SGYP2

102	NGYP
103	TSPRD
104	COOLRD
105	AIRCORD
106	SULFURRD
107	GRANRD
108	EWIGYPRD
109	GYPTO1RD
110	RD12
111	RD23
112	RD3MET
113	SLAG1
114	SLAG2
115	SLAG3
116	COKE1
117	COKE2
118	ASPHALT1
119	ASPHALT2

THE CONC/DEP FLUXS FROM CERTAIN SOURCES WERE
SCALED BY THE FOLLOWING AMOUNTS
(IDENTIFICATION NUMBER,SCALING VALUE)

(1, 8.88E-03)	(2, 4.30E-02)	(3, 1.16E-02)	(4, 8.69E-01)	(5, 8.69E-01)	(6, 5.53E-01)
(7, 5.53E-01)	(8, 2.07E-01)	(9, 2.53E-01)	(10, 1.42E-01)	(11, 2.13E-01)	(12, 1.10E-01)
(13, 1.10E-01)	(14, 2.26E-01)	(15, 1.72E-01)	(16, 2.90E-02)	(17, 2.98E-01)	(18, 1.63E-01)
(19, 1.27E-01)	(20, 1.54E-01)	(21, 8.22E-02)	(22, 1.11E-02)	(23, 1.11E-02)	(24, 4.78E-02)
(25, 4.78E-02)	(26, 4.78E-02)	(27, 4.78E-02)	(28, 5.23E-04)	(29, 3.35E-04)	(30, 9.19E-04)
(31, 5.62E-05)	(32, 6.91E-03)	(33, 4.83E-03)	(34, 1.89E-03)	(35, 1.05E-02)	(36, 5.97E-02)
(37, 3.26E-03)	(38, 2.21E-01)	(39, 6.07E-02)	(40, 9.38E-03)	(41, 2.43E-01)	(42, 1.92E-01)
(43, 3.99E-02)	(44, 2.00E-01)	(45, 8.66E-02)	(46, 2.17E-02)	(47, 1.20E-02)	(48, 1.20E-02)
(49, 5.98E-03)	(50, 1.69E-01)	(51, 2.54E-01)	(52, 2.54E-01)	(53, 1.06E-01)	(54, 1.06E-01)
(55, 0.00E+00)	(56, 9.79E-02)	(57, 4.21E-04)	(58, 1.45E-04)	(59, 1.56E-02)	(60, 1.43E-06)
(61, 7.26E-07)	(62, 4.48E-05)	(63, 5.89E-05)	(64, 6.77E-05)	(65, 2.11E-05)	(66, 1.59E-05)
(67, 3.08E-03)	(68, 2.81E-03)	(69, 4.24E-04)	(70, 1.01E-04)	(71, 9.25E-04)	(72, 6.15E-02)
(73, 8.58E-05)	(74, 7.90E-04)	(75, 6.93E-05)	(76, 2.84E-06)	(77, 4.34E-05)	(78, 9.65E-05)
(79, 7.75E-05)	(80, 1.60E-05)	(81, 3.75E-06)	(82, 6.82E-06)	(83, 0.00E+00)	(84, 0.00E+00)
(85, 0.00E+00)	(86, 0.00E+00)	(87, 0.00E+00)	(88, 2.15E-06)	(89, 1.68E-04)	(90, 4.17E-04)
(91, 1.22E-04)	(92, 1.30E-04)	(93, 6.26E-05)	(94, 2.30E-05)	(95, 2.07E-04)	(96, 9.47E-06)
(97, 0.00E+00)	(98, 0.00E+00)	(99, 0.00E+00)	(100, 1.03E-04)	(101, 7.95E-05)	(102, 8.48E-05)
(103, 4.67E-05)	(104, 4.50E-05)	(105, 4.44E-05)	(106, 2.97E-05)	(107, 3.81E-05)	(108, 7.96E-05)
(109, 1.53E-06)	(110, 8.07E-06)	(111, 3.65E-06)	(112, 3.03E-06)	(113, 5.95E-06)	(114, 8.77E-06)
(115, 3.12E-04)	(116, 3.19E-06)	(117, 1.01E-04)	(118, 2.53E-06)	(119, 2.19E-04)	(

HIGH FIVE TABLE FOR 8760 HOUR AVERAGES

RECEPTOR COORDINATES METERS			HIGHEST FIVE CONC/DEP FLUXS VALUE(DAY,ENDING HOUR)				
X	Y	ELEV.	HIGHEST	2ND HIGH	3RD HIGH	4TH HIGH	5TH HIGH
376200.	4752100.	1341.	5.753E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375000.	4751800.	1356.	2.751E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

377900.	4754300.	1362.	1.435E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
377950.	4751300.	1356.	2.091E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
371650.	4748400.	1387.	1.388E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
357000.	4743000.	1353.	1.415E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376450.	4750540.	1470.	7.795E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4746700.	1370.	3.396E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4758700.	1325.	7.674E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4742700.	1372.	2.977E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4758700.	1325.	5.499E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4747700.	1402.	1.034E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4748700.	1400.	1.226E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4749700.	1359.	1.291E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4750700.	1356.	1.728E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4751700.	1353.	2.322E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4752700.	1353.	3.183E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4754700.	1347.	2.034E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
371760.	4750600.	1356.	2.694E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4746700.	1475.	9.518E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4747700.	1432.	1.376E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4748700.	1463.	2.164E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4749700.	1379.	2.973E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4751700.	1356.	9.952E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4752700.	1353.	7.404E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4753700.	1350.	2.059E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4754700.	1338.	7.794E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
373200.	4749200.	1369.	2.514E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
373200.	4750200.	1375.	5.772E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
373200.	4751200.	1356.	2.234E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
373200.	4752200.	1356.	1.258E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
373700.	4748700.	1436.	2.341E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
373700.	4749700.	1412.	4.849E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
373700.	4751700.	1357.	2.097E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374200.	4749200.	1448.	3.544E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374200.	4752200.	1356.	6.884E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4748700.	1630.	2.378E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4749700.	1408.	5.458E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4751700.	1356.	4.008E+01(365,24)*	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4752700.	1350.	2.453E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4753700.	1350.	9.741E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4754700.	1362.	5.871E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375200.	4749200.	1600.	3.256E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375200.	4752200.	1356.	7.090E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375700.	4749700.	1692.	4.878E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375700.	4751700.	1430.	2.967E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376200.	4749200.	1624.	3.220E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376300.	4752400.	1356.	5.193E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4749700.	1524.	4.855E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

HIGH FIVE TABLE FOR 8760 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES METERS			HIGHEST FIVE CONC/DEP FLUXS VALUE(DAY,ENDING HOUR)				
X	Y	ELEV.	HIGHEST	2ND HIGH	3RD HIGH	4TH HIGH	5TH HIGH
376700.	4750700.	1463.	6.486E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4751700.	1347.	4.508E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

376700.	4752700.	1350.	3.733E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4753700.	1362.	1.672E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4754700.	1356.	7.401E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4758700.	1356.	2.043E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
377200.	4752200.	1356.	3.220E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4747700.	1524.	1.533E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4748700.	1414.	2.315E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4749700.	1390.	2.177E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4750700.	1356.	1.530E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4751700.	1353.	1.586E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4752700.	1362.	1.628E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4753700.	1359.	1.619E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4754700.	1362.	1.249E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
379400.	4753600.	1365.	1.329E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4746700.	1360.	9.169E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4748700.	1360.	1.119E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4750700.	1362.	8.667E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4752700.	1362.	9.161E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4754700.	1359.	9.050E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4756700.	1359.	6.124E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4758700.	1325.	2.588E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380889.	4747781.	1384.	1.344E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382700.	4748700.	1375.	6.907E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382700.	4750700.	1411.	6.870E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382700.	4752700.	1417.	6.726E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382700.	4754700.	1395.	6.686E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382700.	4756700.	1408.	6.390E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382700.	4758700.	1364.	3.819E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382800.	4746400.	1359.	8.433E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
360000.	4745000.	1364.	1.965E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
360000.	4750000.	1364.	2.480E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4750700.	1350.	4.236E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4754700.	1347.	7.140E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4756700.	1322.	1.197E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4758700.	1325.	2.193E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4752700.	1350.	1.453E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4756700.	1356.	3.329E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4744700.	1390.	4.595E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4748700.	1356.	6.619E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376150.	4752050.	1341.	6.082E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376200.	4752050.	1341.	5.873E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376250.	4752050.	1341.	5.667E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376100.	4752100.	1341.	6.144E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376150.	4752100.	1341.	5.947E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376250.	4752100.	1341.	5.564E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376150.	4752150.	1341.	5.813E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376200.	4752150.	1341.	5.639E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

HIGH FIVE TABLE FOR 8760 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES METERS			HIGHEST FIVE CONC/DEP FLUXS VALUE(DAY,ENDING HOUR)				
X	Y	ELEV.	HIGHEST	2ND HIGH	3RD HIGH	4TH HIGH	5TH HIGH
376250.	4752150.	1341.	5.464E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374900.	4751750.	1356.	3.274E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

374950.	4751775.	1356.	2.893E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375000.	4751790.	1356.	2.825E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375050.	4751775.	1356.	3.044E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375100.	4751775.	1356.	3.145E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375050.	4751800.	1356.	2.875E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375100.	4751800.	1356.	2.960E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374950.	4751850.	1356.	2.224E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375000.	4751850.	1356.	2.381E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375050.	4751850.	1356.	2.497E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375100.	4751850.	1356.	2.543E+01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376400.	4750490.	1462.	8.154E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376450.	4750490.	1466.	7.815E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376500.	4750490.	1472.	7.510E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376400.	4750540.	1465.	8.168E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376500.	4750540.	1472.	7.492E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376550.	4750540.	1472.	7.225E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376400.	4750590.	1463.	8.103E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376450.	4750590.	1465.	7.791E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376500.	4750590.	1466.	7.452E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376450.	4750640.	1457.	7.757E+00(365,24)	0.000E+00(0, 0)*	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

* - DENOTES PEAK VALUE

```
Conversion factor for rads        1.0      (30x,F10.0)
Merge 2 models 1=1,2=2            1        (30x,20i5)
Concentration 1=con,2=dep         1
Do a culpability 0=no,1=yes       0
1-hr Start Day,Hr
Receptor #s
3-hr
Receptor #s
8-hr
Receptor #s
24-hr
Receptor #s
Monthly
Receptor #s
Period (days)
Quarterly
Receptor #s
Period (days)
Annual
Receptor #s
Period (days)                   365
idaily                            0
Receptor #s                       1    2    3    4    5    6    7
EMF full year met data PM10 annual emissions and parameters (rev. 6/27/95)
 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1
    1 1993
   59
    1  8.88E-03
    2  4.30E-02
    3  1.16E-02
    4  8.69E-01
    5  8.69E-01
    6  5.53E-01
    7  5.53E-01
    8  2.07E-01
    9  2.53E-01
   10  1.42E-01
   11  2.13E-01
   12  1.10E-01
   13  1.10E-01
   14  2.26E-01
   15  1.72E-01
   16  2.90E-02
   17  2.98E-01
   18  1.63E-01
   19  1.27E-01
   20  1.54E-01
   21  8.22E-02
   22  1.11E-02
   23  1.11E-02
   24  4.78E-02
   25  4.78E-02
   26  4.78E-02
   27  4.78E-02
   28  5.23E-04
   29  3.35E-04
   30  9.19E-04
   31  5.62E-05
   32  6.91E-03
   33  4.83E-03
```

34	1.89E-03
35	1.05E-02
36	5.97E-02
37	3.26E-03
38	2.21E-01
39	6.07E-02
40	9.38E-03
41	2.43E-01
42	1.92E-01
43	3.99E-02
44	2.00E-01
45	8.66E-02
46	2.17E-02
47	1.20E-02
48	1.20E-02
49	5.98E-03
50	1.69E-01
51	2.54E-01
52	2.54E-01
53	1.06E-01
54	1.06E-01
55	0.00E+00
56	9.79E-02
57	4.21E-04
58	1.45E-04
59	1.56E-02

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Appendix AH-4
POSTZ for PM_{10} Emissions (FDM receptors)

POSTZ - VERSION 1.0
A POST PROCESSOR FOR THE
SHORTZ AIR QUALITY MODEL
Aug, 1994 (BEI modified Microsoft 32-bit 8/25/94 (h2)

DATE AT START OF RUN: 6/28/1995 TIME AT START OF RUN: 11:10:59
POSTZ Input file: pf3anpm1.PZI
POSTZ Output file: pf3anpm1.PZO
IMERGE = 1 1= 1 MODEL, 2= 2 MODELS
IPROC = 1 1= CONCENTRATIONS, 2= DEPOSITION FLUXES
Conv Factor = 1.00

Partial Contribution File Created By Model Named: ISCST2
Input Filename Used In ISCST2 : if93an1.inp
Output Filename Used In ISCST2 : if93an1.out
Met Filename Used In ISCST2 : s19394xx.bin
Pcon Filename Used In ISCST2 : if93an1.con

POSTZ - A POST PROCESSOR FOR THE SHORTZ MODEL

POSTZ RUN TITLE: EMF full year met data PM10 annual emissions and parameters (rev. 6/27/95)
SHORTZ RUN TITLE: Unit rate 1 g/s;ISC part 2 1993 ANNUAL EI (rev.6/27/95)

ISW(1) RESTRICT TIME LIMITS (1=YES,0=NO) 0
ISW(2) LIMIT RECEPTORS TO ANALYZE (1=YES,0=NO) 0
ISW(3) LIMIT SOURCES TO ANALYZE (1=YES,0=NO) 0
ISW(4) SPECIFY BACKGROUND CONC/DEP FLUXS (0=NO,1=UNIFORM,2=BY RECEPTOR) 0
ISW(5) SCALE CONC/DEP FLUXS FOR SPECIFIC SOURCES (1=YES,0=NO) 1

1-HOUR AVERAGE ANALYSIS:
ISW(6) HIGH-5 TABLE PREPARED (1=YES,0=NO) 0
ISW(7) TOP 50 TABLE PREPARED (1=YES,0=NO) 0
ISW(8) EXCEEDANCE TABLE PREPARED (1=YES,0=NO) 0

3-HOUR AVERAGE ANALYSIS:
ISW(9) HIGH-5 TABLE PREPARED (1=YES,0=NO) 0
ISW(10) TOP 50 TABLE PREPARED (1=YES,0=NO) 0
ISW(11) EXCEEDANCE TABLE PREPARED (1=YES,0=NO) 0

8-HOUR AVERAGE ANALYSIS:
ISW(12) HIGH-5 TABLE PREPARED (1=YES,0=NO) 0
ISW(13) TOP-50 TABLE PREPARED (1=YES,0=NO) 0
ISW(14) EXCEEDANCE TABLE PREPARED (1=YES,0=NO) 0

24-HOUR AVERAGE ANALYSIS:
ISW(15) HIGH-5 TABLE PREPARED (1=YES,0=NO) 0
ISW(16) TOP-50 TABLE PREPARED (1=YES,0=NO) 0
ISW(17) EXCEEDANCE TABLE PREPARED (1=YES,0=NO) 0

ANNUAL AVERAGE ANALYSIS:
ISW(18) HIGH-5 TABLE PREPARED (1=YES,0=NO) 1
ISW(19) TOP-50 TABLE PREPARED (1=YES,0=NO) 0
ISW(20) EXCEEDANCE TABLE PREPARED (1=YES,0=NO) 0

USER-SPECIFIED AVERAGING TIME ANALYSIS
ISW(21) HIGH-5 TABLE PREPARED (1=YES,0=NO) 0
ISW(22) TOP-50 TABLE PREPARED (1=YES,0=NO) 0

ISW(23) EXCEEDANCE TABLE PREPARED (1=YES,0=NO)	0
ISW(24) BLOCK OR RUNNING AVERAGES (0=BLOCK,1-RUNNING)	0
ISW(25) CALMS POLICY (0=NO,1=YES)	1
JULIAN DAY FOR START OF ANALYSIS	1
YEAR FOR START OF ANALYSIS	1993
JULIAN DAY FOR END OF ANALYSIS	365
YEAR FOR END OF ANALYSIS	1993

Source Number	Source Name
1	ESHALEBH
2	MSHALEBH
3	WSHALEBH
4	CS1_1
5	CS1_2
6	CS2_1
7	CS2_2
8	CV1_1
9	CV1_2
10	CV2_1
11	CV2_2
12	DISCSBH
13	DISCNBH
14	ENODULEB
15	WNODULEB
16	STOCKPIL
17	DUSTSILO
18	EBURDEN
19	WBURDEN
20	COKEBAGH
21	PHOSDOCK
22	BOILER3
23	BOILER4
24	1FURTAPH
25	2FURTAPH
26	3FURTAPH
27	4FURTAPH
28	FUR1PRV
29	FUR2PRV
30	FUR3PRV
31	FUR4PRV
32	FUR1COF
33	FUR2COF
34	FUR3COF
35	FUR4COF
36	SECFLARE
37	COFLARE
38	PHOSACID
39	GRAN1RNG
40	GRAN1BAG
41	GRAN1DRY
42	GRAN2TGS
43	GRAN2COL
44	GRAN3
45	ASDRYVSC
46	ASCOOLCY
47	CEBOILER

48	FWBOILER
49	KEBOILER
50	H2ONTWR
51	H2OETWR
52	H2OWTWR
53	AMMONIA1
54	AMMONIA2
55	SPA
56	TANKFARM
57	COKESCRU
58	COKEBH
59	DRUMBH

THE CONC/DEP FLUXS FROM CERTAIN SOURCES WERE
SCALED BY THE FOLLOWING AMOUNTS
(IDENTIFICATION NUMBER,SCALING VALUE)

(1, 8.88E-03)	(2, 4.30E-02)	(3, 1.16E-02)	(4, 8.69E-01)	(5, 8.69E-01)	(6, 5.53E-01)
(7, 5.53E-01)	(8, 2.07E-01)	(9, 2.53E-01)	(10, 1.42E-01)	(11, 2.13E-01)	(12, 1.10E-01)
(13, 1.10E-01)	(14, 2.26E-01)	(15, 1.72E-01)	(16, 2.90E-02)	(17, 2.98E-01)	(18, 1.63E-01)
(19, 1.27E-01)	(20, 1.54E-01)	(21, 8.22E-02)	(22, 1.11E-02)	(23, 1.11E-02)	(24, 4.78E-02)
(25, 4.78E-02)	(26, 4.78E-02)	(27, 4.78E-02)	(28, 5.23E-04)	(29, 3.35E-04)	(30, 9.19E-04)
(31, 5.62E-05)	(32, 6.91E-03)	(33, 4.83E-03)	(34, 1.89E-03)	(35, 1.05E-02)	(36, 5.97E-02)
(37, 3.26E-03)	(38, 2.21E-01)	(39, 6.07E-02)	(40, 9.38E-03)	(41, 2.43E-01)	(42, 1.92E-01)
(43, 3.99E-02)	(44, 2.00E-01)	(45, 8.66E-02)	(46, 2.17E-02)	(47, 1.20E-02)	(48, 1.20E-02)
(49, 5.98E-03)	(50, 1.69E-01)	(51, 2.54E-01)	(52, 2.54E-01)	(53, 1.06E-01)	(54, 1.06E-01)
(55, 0.00E+00)	(56, 9.79E-02)	(57, 4.21E-04)	(58, 1.45E-04)	(59, 1.56E-02)	(

HIGH FIVE TABLE FOR 8760 HOUR AVERAGES

RECEPTOR COORDINATES METERS			HIGHEST FIVE CONC/DEP FLUXS VALUE(DAY,ENDING HOUR)				
X	Y	ELEV.	HIGHEST	2ND HIGH	3RD HIGH	4TH HIGH	5TH HIGH
364700.	4742700.	1372.	1.119E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4744700.	1365.	9.005E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4748700.	1350.	1.357E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4752700.	1353.	2.142E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4756700.	1322.	3.603E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
364700.	4760700.	1325.	1.672E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4744700.	1365.	1.423E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4746700.	1370.	1.498E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4748700.	1350.	1.439E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4750700.	1350.	1.597E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4752700.	1353.	2.871E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4754700.	1347.	4.092E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
366700.	4760700.	1325.	1.069E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4742700.	1405.	2.039E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4746700.	1384.	2.777E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4750700.	1353.	2.304E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4754700.	1347.	8.375E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4756700.	1350.	4.461E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

368700.	4758700.	1325.	1.348E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
368700.	4760700.	1328.	6.286E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4742700.	1475.	1.892E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4743700.	1350.	1.304E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4744700.	1465.	2.694E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4745700.	1414.	3.424E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4746700.	1414.	4.130E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4755700.	1344.	3.682E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4756700.	1347.	2.004E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
370700.	4760700.	1328.	4.524E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4742700.	1609.	1.455E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4744700.	1548.	2.335E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4745700.	1475.	3.276E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4755700.	1347.	1.407E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4758700.	1328.	5.268E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
372700.	4760700.	1338.	4.130E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
373200.	4748200.	1444.	7.574E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374200.	4748200.	1521.	7.517E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4742700.	1719.	1.230E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4744700.	1634.	2.254E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4745700.	1524.	3.638E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4746700.	1536.	4.594E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4747700.	1492.	7.003E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4755700.	1331.	1.129E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4756700.	1356.	1.098E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4758700.	1353.	7.360E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
374700.	4760700.	1341.	5.122E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375200.	4748200.	1621.	6.207E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
375700.	4748700.	1670.	5.679E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376200.	4748200.	1734.	3.428E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376200.	4752200.	1341.	1.867E+00(365,24)*	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

HIGH FIVE TABLE FOR 8760 HOUR AVERAGES (CONT.)

RECEPTOR COORDINATES METERS			HIGHEST FIVE CONC/DEP FLUXS VALUE(DAY,ENDING HOUR)				
X	Y	ELEV.	HIGHEST	2ND HIGH	3RD HIGH	4TH HIGH	5TH HIGH
376700.	4742700.	1914.	4.881E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4744700.	1615.	1.980E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4745700.	1615.	2.488E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4746700.	1670.	2.672E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4747700.	1597.	4.609E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4748700.	1645.	6.537E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4755700.	1356.	1.855E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4756700.	1359.	1.320E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
376700.	4760700.	1350.	6.312E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
377200.	4748200.	1624.	5.536E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
377200.	4749200.	1524.	1.404E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
377200.	4750200.	1397.	1.867E+00(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
377200.	4751200.	1341.	8.480E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4742700.	1707.	9.608E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4744700.	1585.	2.142E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4745700.	1593.	2.636E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4746700.	1463.	4.617E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4755700.	1362.	3.024E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

378700.	4756700.	1359.	1.773E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4758700.	1359.	1.017E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
378700.	4760700.	1353.	6.515E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4742700.	1645.	1.259E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4744700.	1463.	2.902E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4745700.	1463.	4.068E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4749700.	1353.	3.535E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4751700.	1364.	3.973E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4753700.	1362.	3.964E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4755700.	1360.	4.271E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
380700.	4760700.	1358.	7.237E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382700.	4742700.	1463.	2.101E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
382700.	4760700.	1366.	9.827E-02(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4742700.	1350.	1.311E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4744700.	1402.	3.950E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4746700.	1463.	3.732E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4748700.	1530.	2.663E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4750700.	1478.	2.396E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4752700.	1487.	2.375E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4754700.	1484.	2.411E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4756700.	1463.	2.491E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4758700.	1414.	2.415E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
384700.	4760700.	1402.	1.771E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
360000.	4755000.	1364.	1.990E-01(365,24)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)
360000.	4760000.	1364.	3.488E-01(365,24)	0.000E+00(0, 0)*	0.000E+00(0, 0)	0.000E+00(0, 0)	0.000E+00(0, 0)

* - DENOTES PEAK VALUE

Appendix AI

Model Performance Information

Appendix AI comprises three attachments:

(1) Appendix AI-1 – Composite InterISC2 and FDM Model Output Comparisons with Observed Data

(2) Appendix AI-2 – Model Performance Scatter Plots

(3) Appendix AI-3 – WVSCORE Results for Selected Constituents

Appendix AI-1
Composite InterISC2 and FDM Model Output Comparisons with Observed Data

Table AI-1-1: Comparison of PM10 monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/2/93	35.25	0.43	54.04	32.22	36.76	0.08	39.09	0.00		0.15	67.63	0.00	43.93	15.76
10/4/93	43.80	14.79	47.06	48.58		0.80	40.97	0.16		8.40	81.43	0.06	58.86	23.54
10/6/93	25.33	2.76	36.06	28.91	30.40	0.30	23.87	1.90		0.34	12.13	1.54	24.97	28.90
10/8/93	10.55	5.94	17.73	15.40	6.95	1.27	6.15	1.78		1.83	3.74	0.00	5.08	3.74
10/10/93	11.73	0.00	28.19	16.52		0.00	12.50	0.03		0.20	8.19	0.02	12.21	1.34
10/12/93	23.14	18.97	50.04	69.64	16.10	4.43	13.07	6.45		0.00	9.95	0.00	8.65	1.94
10/14/93	19.89	9.90	45.30	52.68	11.66	1.47	13.10	4.09		0.04	9.47	0.00	11.48	13.47
10/16/93	9.36	0.01	22.60	22.19	11.25	0.00	14.35	0.02	17.02	1.10	7.99	2.02	26.67	22.93
10/18/93	30.44	19.45	64.10	105.30	18.01	8.95	11.53	5.79	7.02	0.00	6.92	0.00	7.57	10.51
10/20/93	34.30	23.87	40.10	70.03	24.80	1.90	41.04	11.59	9.96	1.22	10.89	0.01	40.58	23.06
10/22/93	28.45	0.89	38.93	27.84	20.68	0.02	30.34	0.23	36.57	0.50	18.69	0.13	29.47	14.29
10/24/93	47.99	13.45	106.76	69.25	21.26	4.93	17.59	6.48	19.76	9.70	14.03	0.03		21.12
10/26/93	24.61	3.29	31.07	49.45	23.62	0.16	29.41	0.61	17.33	1.40	24.65	0.02	9.79	5.36
10/28/93	30.79	13.74	103.87	59.22	21.71	3.73	16.61	1.79	15.23	5.05	14.83	0.06	11.84	3.45
10/30/93	20.20	0.07	32.74	14.94		0.00	15.49	0.02	32.08	1.07	15.98	0.59	22.13	36.97
11/1/93		29.78	79.03	69.97	25.62	3.71	14.95	4.98	13.75	0.00	13.96	0.00	11.51	1.79
11/3/93	67.64	10.07	94.66	31.77	37.33	1.37	33.27	1.60	39.96	5.12	27.94	0.00	24.69	0.50
11/5/93	24.50	27.05	46.29	130.80	15.36	11.12	14.18	6.90	10.66	0.00	17.21	0.00	7.53	9.54
11/7/93	22.50	11.01	38.81	50.27	16.72	2.73	14.61	6.52	4.99	0.37	8.32	0.10	8.35	5.51
11/9/93	28.16	0.00	48.97	27.88	19.36	0.00	33.72	0.30	30.30	1.18	28.24	1.74	33.76	24.02
11/11/93	72.67	5.46	103.33	59.54	53.04	2.67	69.16	6.42	42.05	0.65	32.90	1.75	117.40	42.29
11/13/93	33.78	18.25	102.87	62.41	29.52	2.55	19.97	2.02	17.71	7.22	17.57	0.00	16.15	21.12
11/15/93	26.73	4.72	44.24	60.19	22.51	5.03	28.95	4.01	13.95	0.00	13.95	0.00	14.66	2.30
11/17/93	16.36	1.55	48.16	28.69	13.63	0.41	21.80	0.21	17.40	0.01	22.97	0.00	10.96	24.52
11/19/93	20.44	14.29	31.48	51.57		1.82	19.33	5.17	8.04	0.00	10.67	0.00	5.28	2.53
11/21/93	19.00	6.67	53.19	45.54	12.35	0.78	22.70	10.89	18.31	0.00	20.54	0.00	5.20	11.57
11/23/93	37.74	27.94	94.59	93.82	15.64	6.89	7.64	3.74	4.81	0.00	3.97	0.00	3.23	1.21
11/25/93	58.72	0.00	44.75	31.33	67.42	0.00	72.73	0.00	40.39	28.05	35.35	2.25	47.21	40.40
11/27/93	41.73	0.60	36.95	17.00	40.39	0.02	48.96	7.96	90.76	1.61	26.14	0.84	60.16	71.56
11/29/93	43.15	3.66	56.51	23.99	31.36	0.05	34.79	2.14	40.49	15.08	22.64	0.03	20.52	35.83
12/1/93	12.22	9.31	43.15	57.62	10.11	2.30	6.60	0.11	2.34	0.00	2.53	0.00	1.86	0.01
12/3/93	15.23	7.14	40.03	43.16	9.37	3.05	12.80	0.05	10.62	3.60	5.13	0.40	6.65	0.04
12/5/93	18.93	4.01	22.32	41.43	11.22	2.59	21.29	0.00	25.51	33.13	4.62	0.39	7.93	0.09
12/7/93	15.25	1.07	23.49	37.18	9.19	1.17	15.22	0.56	24.66	8.30	6.47	0.09	24.64	5.29
12/9/93	17.31	9.22	36.93	79.31	7.85	4.53	9.03	1.21	2.23	0.00	2.29	0.00	2.35	10.17
12/11/93	19.92	0.38	31.45	14.12	14.89	0.05	17.38	0.85	13.52	0.03	10.33	0.03	22.17	66.79
12/13/93	16.12	2.07	24.67	29.29	10.24	2.20	13.04	0.01	17.17	18.67	3.85	1.91	5.45	13.71
12/15/93	41.86	37.11	84.12	155.30	18.26	11.91	15.47	11.22	7.60	0.00	2.29	0.00	17.37	20.62
12/17/93	29.36	0.15	25.13	27.14	22.65	0.00	41.27	23.46	20.12	3.19	11.31	0.73	15.44	7.15
12/19/93	30.69	14.51	40.43	85.86	24.76	4.68	25.88	5.24	10.75	9.08	13.49	2.15	11.78	11.87
12/21/93		14.21	25.36	83.80	12.63	4.95	14.54	9.03		0.03	6.74	0.00	8.20	16.75
12/23/93	21.19	6.83	28.07	67.29	15.51	3.98	17.42	6.75	11.42	9.16	8.18	0.00	11.03	54.75
12/25/93	28.16	0.00	25.55	0.00	46.61	0.00	40.54	12.64	71.34	3.11	19.94	0.12	106.10	75.19
12/27/93	35.49	12.57	36.57	54.57	31.13	0.40	33.02	5.74	15.12	0.00	18.13	0.00	29.82	32.52
12/29/93	26.19	0.00	31.25	18.24	16.98	0.00	34.73	2.30	25.32	4.21	18.98	1.31	12.53	7.82
12/31/93	25.70	13.53	81.87	54.39		3.03	9.35	2.99	1.90	3.43	3.30	0.00	2.32	6.39
1/2/94	17.43	10.39	82.64	74.46	14.26	4.93	3.82	0.03	1.58	0.00	1.50	0.00		0.00
1/4/94	12.67	5.49	37.09	38.18	6.84	1.17	7.39	0.37	13.24	0.00	2.52	0.00	11.44	64.61
1/6/94	45.49	25.43	92.78	50.98	7.86	1.69	3.76	2.97	0.60	0.00	1.14	0.00	1.58	0.59
1/8/94	11.64	0.26	35.77	15.98	8.11	0.00	11.02	0.25	6.00	0.04	4.89	0.00	16.97	25.63
1/10/94	18.40	16.20	30.09	33.10	6.83	0.43	5.29	9.64	1.02	0.00	1.82	0.00	1.46	3.53
1/12/94	25.67	33.74	84.40	99.43	10.05	6.06	3.75	3.86	0.82	0.00	1.90	0.00	0.60	4.58
1/14/94	15.44	5.59	38.99	65.95	11.25	4.09	15.01	0.00	9.76	19.93	3.74	0.01	5.93	16.38
1/16/94	35.61	34.43	116.99	79.82	11.58	5.04	4.28	2.54	3.24	0.00	4.37	0.00	2.90	0.57
1/18/94	27.68	5.21	71.44	34.99	18.73	3.19	32.03	0.03	39.12	5.91	5.57	0.09	49.05	19.74
1/20/94	49.41	0.00	72.92	14.18	42.20	0.00	56.59	4.53	36.94	4.78	20.55	2.46	51.59	68.73
1/22/94	33.60	0.00	38.24	10.12	28.30	0.00	47.58	0.33	55.08	12.01	18.13	0.48	38.21	15.11
1/24/94	15.07	0.83	40.89	35.00	14.58	0.15	18.86	0.00	7.93	0.00	5.00	0.00	7.00	13.96
1/26/94	39.50	40.27	40.39	117.30	1.49	7.68	2.32	4.60	0.88	0.00	3.02	0.00	2.09	1.14
1/28/94	27.28	10.53	38.90	69.67	21.74	4.00	17.21	0.48	27.21	4.52	6.12	0.47	5.50	2.98
1/30/94	8.05	0.00	10.68	21.06	10.33	0.00	15.08	0.00	11.36	18.03	4.20	0.24	0.96	18.63
2/1/94	32.25	0.71		23.98	15.77	0.40	24.92	1.32	8.90	0.00	5.65	0.00	40.80	6.66
2/3/94	42.45	3.91	59.81	34.85	40.06	1.66	50.09	0.33	31.44	0.94	8.05	0.02	118.50	30.34
2/5/94	45.74	16.21	65.59	42.37	31.04	0.21	51.01	1.85	42.32	0.41	8.66	2.28	61.86	10.02
2/7/94	8.82	7.46	33.13	40.54	3.80	0.67	4.23	0.17	1.24	0.00	3.06	0.00	1.35	0.01
2/9/94	26.73	14.39	65.47	94.28	10.44	7.45	8.18	0.21	3.80	0.00	2.64	0.00	0.66	0.02
2/11/94	30.98	20.23	55.87	63.97	15.01	4.86	11.65	2.32	4.00	0.00	4.34	0.00		9.41
2/13/94	11.64	0.68	27.32	13.06	6.56	0.03	9.62	4.10	9.96	0.05	8.93	0.00	7.50	14.02
2/15/94	19.84	0.00	32.07	3.61	16.82	0.00	25.40	5.74	77.06	3.52	8.24	0.83	59.45	27.72
2/17/94	11.49	3.07	47.54	40.25	8.03	2.31	5.70	2.73	2.78	0.00	3.39	0.00	2.79	0.33
2/19/94	20.33	17.20	46.99	66.47	7.12	4.32	7.31	6.76	0.34	0.00	0.82	0.00		3.19
2/21/94	10.32	5.77	26.07	69.80		4.34	5.02	0.01		1.35	0.41	0.08		0.00
2/23/94	9.28	4.87	46.56	55.23	5.96	2.79	5.47	0.00	3.31	0.00	0.89	0.00	0.99	0.00
2/25/94	41.22	13.59	47.91	37.36	9.22	1.18	14.22	1.69	14.75	1.04	5.19	0.05	17.19	23.86
2/27/94	25.70	20.64	50.09	53.10	8.25	2.08	2.12	4.48	2.20	0.00	2.17	0.00	2.69	1.20
3/1/94	25.01	7.29	41.44	54.35	19.59	2.60	24.36	3.46	8.97	0.00	8.07	0.01	10.82	5.84
3/3/94	36.73	1.18	59.77	22.37	23.18	0.06	32.10	4.18	25.29	10.07	11.68	0.00	19.63	40.13
3/5/94	19.23	16.13	25.52	133.10	12.42	8.90	15.03	8.83	5.11	1.12	5.97	0.06	13.09	19.05
3/7/94	25.59	7.50	41.11	91.35	22.96	3.16	29.88	3.08	8.75	0.00	8.45	0.00		8.40
3/9/94	23.06	2.21	50.76	40.17	24.19	1.16	24.40	4.01	8.41	0.00	9.61	0.00	6.74	6.96
3/11/94	11.33	4.92	15.82	27.75	6.34	0.08	8.76	7.50	6.77	0.08	3.23	0.00	3.64	29.71
3/13/94	13.68	2.47	28.11	28.93	15.34	0.53	17.71	2.51	7.49	0.00	10.09	0.00	12.30	7.36
3/15/94	18.30	0.27	55.01	19.71	15.91	0.00	18.06	0.00	16.00	0.47	23.00	0.00	7.51	0.01
3/17/94	79.49	20.66	145.57	63.45	27.44	2.64	20.48	4.92	15.22	0.00	17.71	0.00	13.33	1.27
3/19/94	50.77	26.86	142.77	102.00	24.12	8.88		0.52	6.92	0.00	8.57	0.00	7.50	0.05
3/21/94	29.46	4.27	49.92	20.74		0.53	18.98	8.61	11.10	0.00	17.12	0.00	10.27	3.28
3/23/94	22.11	14.19	98.77	65.03	11.30	6.22	4.80	1.92	0.20	0.00	0.21	0.00	1.10	0.64
3/25/94	25.16	0.55	32.65	23.89	17.16	0.01	24.93	12.31	31.69	2.26	14.01	1.11	20.73	23.56
3/27/94	26.06	5.88	30.07	49.71	11.38	3.78	10.84	8.29	7.59	0.63	10.64	0.55	7.06	7.48
3/29/94	18.73	0.05	23.48	12.99	13.56	0.00	19.50	0.59	19.44	4.11	17.80	0.87	8.51	4.56
3/31/94	35.11	3.86	89.52	35.64	28.19	1.21	30.88	5.89	27.35	0.25	22.10	0.20	21.84	9.29

Table AI-1-1: Comparison of PM10 monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
4/2/94	17.59	0.28	38.03	33.39		0.00		0.02	16.13	0.05	16.17	0.04	33.06	1.14
4/4/94	34.01	23.26	77.79	52.31		3.42		14.99	5.00	0.00	6.05	0.00	7.53	11.80
4/6/94	19.02	19.46	46.87	73.87	5.57	3.14	4.40	0.95	2.84	0.00	3.38	0.00	2.33	0.15
4/8/94	9.35	2.18	32.60	39.08	7.63	1.22	9.82	0.00	12.36	2.32	4.22	0.28	5.82	3.43
4/10/94	25.68	23.83	66.43	112.10	18.22	9.55	5.92	0.95	3.82	0.00	3.88	0.00	6.12	0.33
4/12/94	24.64	7.52	68.64	44.57	12.38	1.41	13.18	0.17	5.63	0.00	11.65	0.00	6.09	0.01
4/14/94	53.12	19.94	150.74	56.21	28.67	3.69	19.47	4.22	16.68	0.00	17.75	0.00	19.20	1.13
4/16/94	26.32	1.09	59.71	22.87	19.92	0.44	23.73	0.19	45.47	0.05	37.18	0.15	20.88	1.67
4/18/94	34.59	0.44	50.53	28.73	30.86	0.15	30.48	0.00	40.03	1.73	60.77	0.17	26.02	0.01
4/20/94	33.34	1.01		20.07	27.25	0.09	37.63	3.79	30.02	4.29	25.07	0.47		23.82
4/22/94	27.39	20.08	81.89	38.83	29.28	2.07	25.21	6.40	22.45	0.00	21.41	0.00	25.08	7.20
4/24/94	19.51	11.38	28.82	75.12	17.22	3.61	16.76	4.56	13.80	3.36	10.03	0.27	13.78	16.54
4/26/94	4.11	7.86	7.13	80.63	2.33	5.44	3.83	0.01	8.69	5.29	3.59	0.09		6.99
4/28/94	8.83	0.00	11.54	4.47	10.94	0.00	11.38	0.03	11.48	8.54	6.80	0.36	6.27	1.00
4/30/94	23.44	9.00	44.43	36.48	17.16	1.47	15.09	2.41	15.90	0.00		0.00	10.40	3.87
5/2/94	18.75	9.03	40.01	35.06	17.01	1.24	15.65	3.48	11.56	0.00	12.39	0.00	11.31	1.33
5/4/94	10.31	2.31	29.89	21.98	9.92	0.12	13.67	0.06	11.63	0.24	12.10	0.15	6.73	0.42
5/6/94	16.48	0.05	36.00	10.45		0.00	16.94	0.00	20.86	1.80	17.98	0.93	10.74	0.05
5/8/94	16.80	0.13	25.86	20.27	15.98	0.00	16.37	1.09	13.73	0.31	12.84	0.16	15.35	7.38
5/10/94	44.62	9.38	49.25	57.35	22.90	4.09	23.54	3.07	13.50	0.01	20.19	0.02	14.04	3.64
5/12/94	42.78	9.03	89.85	39.81	34.50	1.98	31.71	2.70	21.58	0.00	22.96	0.00	21.61	6.61
5/14/94	20.14	4.17	44.09	33.98	21.95	1.52	17.50	0.17	11.43	0.05	24.37	0.04	16.66	6.30
5/16/94	21.33	15.16	46.77	67.91	15.81	5.31	13.06	1.92	10.05	1.16	13.66	0.01	9.02	8.06
5/18/94		11.12		53.45	13.56	4.44	21.19	5.40	13.61	2.19	8.51	0.38	13.05	8.54
5/20/94	21.80	12.71	41.47	74.03	8.85	4.32	10.66	6.80	2.90	0.00	4.14	0.00	4.24	2.87
5/22/94	27.32	14.23	52.39	29.04	17.53	0.32	18.54	7.26	12.88	1.12	13.48	0.54	17.13	8.32
5/24/94	25.83	0.02	35.56	19.93	29.28	0.00	34.13	0.97	17.26	1.11	25.53	0.61	31.96	13.90
5/26/94	32.05	0.53	83.94	13.29	31.34	0.01	39.84	0.45	28.17	0.00	37.02	0.00	33.19	20.92
5/28/94	19.48	9.17	39.97	56.54	11.56	3.14	12.40	0.35	9.26	0.10	9.65	0.07	7.00	0.06
5/30/94	19.42	15.35	68.19	72.61	19.75	5.27	15.80	2.34	10.45	0.13	14.60	0.01	10.14	2.83
6/1/94	25.96	28.56	92.25	99.77	16.07	7.01	11.79	3.13	5.57	0.00	7.03	0.00	6.49	0.94
6/3/94	28.00	0.96	43.56	34.36	25.17	0.37	29.39	0.89	19.28	0.17	25.09	0.00	22.28	1.92
6/5/94	13.53	0.46	26.97	18.21	16.16	0.02	16.08	0.00	24.40	1.01	18.16	0.06	12.90	0.05
6/7/94	9.97	14.87	19.34	68.79	6.00	3.25	11.13	5.01	3.25	0.00	5.46	0.00	6.43	1.75
6/9/94	17.73	15.24	34.95	79.54		2.98	17.51	1.81	5.01	0.00	14.24	0.00	8.43	3.02
6/11/94	23.37	1.98	34.15	28.15	20.88	0.68	23.85	4.30	14.61	0.81	23.78	0.48	29.44	10.34
6/13/94	36.11	20.42	114.04	65.24	32.47	4.35		15.11	18.87	0.00	20.52	0.00	25.52	7.68
6/15/94	17.92	5.95	39.93	30.22	19.21	1.42	17.73	7.54	14.11	0.09	13.86	0.00	21.23	9.16
6/17/94	17.71	0.00	42.33	15.03	18.04	0.00	18.49	0.00	15.02	1.45	26.96	0.34	9.16	0.13
6/19/94	25.54	6.97	83.91	35.71	24.36	0.71	29.04	1.45	12.16	0.29	20.76	0.28	15.85	6.71
6/21/94	31.24	0.88	45.19	10.47	30.17	0.00	32.14	4.69	22.48	0.09	31.67	0.00	23.84	3.51
6/23/94	33.50	6.17	58.55	35.66	26.19	1.16	29.07	6.28	17.95	0.07	21.00	0.09	52.40	10.76
6/25/94	13.99	1.70	26.77	26.18	21.57	0.14	24.95	0.00	18.32	1.14	37.83	0.13	22.15	1.46
6/27/94	17.50	2.78	22.91	29.02	22.87	1.73	22.04	4.19	9.63	0.00	17.78	0.00	12.12	11.28
6/29/94	51.49	34.27	112.51	74.31	36.37	2.97	27.50	3.61	16.65	0.03	26.27	0.05	41.91	10.98
7/1/94	41.05	10.41	76.47	45.10	35.58	3.02	28.72	5.75	11.82	0.00	21.07	0.00	18.47	4.86
7/3/94	34.26	19.27	90.29	104.20	17.58	7.42	8.46	3.33	6.45	0.00	9.95	0.00	8.25	0.94
7/5/94	65.06	7.70	105.62	22.51	49.08	0.17	41.74	2.31	26.18	0.00	38.43	0.00	33.30	4.56
7/7/94	18.13	0.03	25.42	9.28	13.59	0.00	16.72	0.49	18.37	16.75	14.08	0.03	15.40	8.33
7/9/94	26.18	2.72	58.02	38.15	19.04	1.56	21.84	1.60	22.88	0.94	20.93	0.01	19.60	9.30
7/11/94		21.38	93.94	78.63	21.32	4.98	20.49	5.02	11.39	0.38	15.56	0.01		3.00
7/13/94	41.38	5.10	48.93	19.15	29.30	0.25	22.60	4.39	15.28	3.83	23.91	0.01	16.06	22.61
7/15/94	29.99	8.36	64.78	56.67	25.38	3.74	25.72	1.97	18.57	0.17	25.14	0.00	19.58	14.02
7/17/94	36.97	8.81	65.25	50.86	24.93	2.68	25.52	5.82	13.53	0.00	24.53	0.00	26.73	8.64
7/19/94	31.20	10.93	73.21	40.70	33.65	1.75	23.59	3.95	14.67	0.02	23.42	0.00	17.02	14.53
7/21/94	43.29	24.35	53.21	83.54	35.25	2.28	33.71	0.56	25.36	2.32	36.19	0.31	20.30	30.41
7/23/94	22.32	3.62	60.87	26.09	17.99	0.79	19.45	0.03	19.49	0.83	20.69	0.07	15.22	0.43
7/25/94	24.84	0.42	31.86	17.94	21.17	0.01	23.27	0.10	31.24	0.81	39.61	0.03	27.35	3.86
7/27/94	43.37	0.81	59.22	21.90	39.50	0.12	40.91	0.50	32.49	9.54	41.44	0.26	38.22	24.78
7/29/94	40.69	0.00	43.72	6.91	29.70	0.00	31.46	1.70	37.01	5.82	42.90	0.66	33.45	40.79
7/31/94	35.40	0.06	72.52	27.92	31.86	0.00	31.74	4.75	28.39	0.12	37.25	0.03	29.74	28.00
8/2/94	51.55	0.40	57.63	17.21	39.25	0.11	46.86	1.13	51.86	0.14	47.17	0.02	49.22	4.36
8/4/94	40.69	0.90	70.99	17.91	30.87	0.03	44.78	0.29	24.49	0.24	46.51	0.15	20.91	30.23
8/6/94	44.84	17.62	89.42	87.75		5.86		6.96	20.96	0.00	32.94	0.00	21.34	3.50
8/8/94	58.85	1.37	63.41	11.95		0.03	44.31	8.56	31.68	0.05	76.61	0.10	31.95	9.48
8/10/94	47.61	1.06	69.54	28.75		1.04	25.91	2.07	16.98	3.44	72.64	0.02	16.88	0.93
8/12/94	47.69	3.24	76.34	32.73		0.78	25.86	0.10	26.32	2.07	28.03	1.50	20.86	21.72
8/14/94	37.67	23.98	54.95	73.07		1.02	24.82	1.52	30.44	4.09	26.62	0.73	30.21	17.43
8/16/94	60.26	7.13	86.69	59.88		1.94	50.89	13.54	38.50	0.01	47.40	0.02	58.58	5.12
8/18/94	56.84	3.38	64.02	31.77		0.20	50.75	0.86	32.53	0.00	55.31	0.00	47.93	10.77
8/20/94	49.42	1.23	68.02	28.66		1.21	33.34	0.27	34.29	0.16	49.65	0.09	32.84	12.37
8/22/94	60.65	15.45	111.14	60.20		5.36	29.50	2.65	24.72	0.05	31.02	0.00	29.34	0.78
8/24/94	51.48	7.40	95.85	46.27		3.32	43.05	8.10	24.44	0.00	35.02	0.00	39.93	13.17
8/26/94	57.97	2.77	82.45	24.59		0.26	37.12	15.78	21.52	0.00	36.40	0.00	24.02	31.76
8/28/94	25.39	1.39	56.70	41.37		0.37	21.87	1.32	36.50	0.05	36.44	0.05	14.30	1.16
8/30/94	52.08	10.84	85.00	59.53		2.90	44.10	3.88	30.72	0.35	41.10	0.06	30.54	5.95
9/1/94	41.96	0.07	53.48	18.11		0.00	58.14	1.39	32.36	0.06	48.08	0.07	40.27	17.58
9/3/94	68.43	20.23	143.77	98.99		8.95	40.47	8.14	36.90	0.00	41.29	0.00	36.87	2.86
9/5/94	24.90	0.35	34.04	19.43		0.07	31.40	1.80	41.03	0.25	29.66	0.01	32.15	6.94
9/7/94	43.73	0.78	45.72	31.38		0.00	36.85	2.48	31.50	0.23	35.09	0.04	17.46	25.35
9/9/94	53.62	17.32	96.57	48.92		3.45	39.33	7.03	31.60	0.00	34.50	0.00	24.69	25.41
9/11/94	31.61	13.89	80.37	70.91		3.65	31.05	2.67	15.48	10.05	18.62	0.00	14.20	4.29
9/13/94	54.24	22.95		76.73		3.36	50.98	9.10	36.06	0.00	36.57	0.00	30.30	30.41
9/15/94	19.79	0.37	28.68	24.21		0.01	20.43	1.40	10.50	0.06	30.97	0.00	13.80	10.77
9/17/94	23.47	0.77	41.77	22.57		0.08	27.70	0.17	29.24	0.30	55.77	0.50	18.50	2.06
9/19/94	44.98	4.02	52.35	66.57		3.35	49.07	0.00	30.17	0.63	96.96	0.07	56.96	18.22
9/21/94	49.76	0.07	59.10	26.80		0.00	39.48	0.00	31.70	8.87	105.62	0.01	42.73	39.71
9/23/94	50.38	10.14	80.01	23.28		0.00	48.86	2.38	29.84	1.14	55.81	0.51	58.07	15.65
9/25/94	37.66	2.48	56.29	37.95		0.10	41.17	0.11	29.76	0.19	30.53	0.08	35.78	25.16
9/27/94	69.10	1.53	83.46	33.25		1.06	66.23	0.64	49.17	0.00	92.32	0.00	67.28	7.02
9/29/94	39.87	11.34	57.76	71.38		4.04	20.71	7.32	7.63	0.00	9.38	0.00	12.25	2.12
Maximum	79.5	40.3	150.7	155.3	67.4	11.9	72.7	23.5	90.8	33.1	105.6	2.5	118.5	75.2
Minimum	4.1	0.00	7.1	1.69E-03	1.5	0.00	2.1	0.00	0.20	0.00	0.21	0.00	0.60	6.90E-05
Average	30.5	8.7	55.8	46.3	20.3	2.2	24.0	3.4	19.4	2.1	20.4	0.2	21.3	12.5
Std. dev.	15.0	9.0	27.9	28.0	10.9	2.5	14.2	3.8	14.8	4.8	18.8	0.5	19.5	14.6
Count	178	182	178	182	143	182	177	182	173	182	181	182	173	182

Note: blank values indicate missing data or non-detect values

Table AI-1-2: Comparison of TSP monitored and modeled concentrations (µg/m3)

Date	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/2/93	77.86	0.77	118.70	40.32	71.71	0.13	84.13	0.01		0.26		0.00	91.30	26.09
10/4/93	100.84	23.79	132.77	76.28		1.14	90.85	0.24		11.44	182.18	0.10	110.39	43.77
10/6/93	53.94	4.92	94.51	46.08		0.53	47.70	3.28		0.44	24.91	2.46	40.60	51.40
10/8/93	23.88	10.53	47.77	30.04	15.28	2.17	7.21	3.00		2.51	7.74	0.00	8.86	6.49
10/10/93	17.53	0.01	65.66	27.32	22.88	0.00	18.26	0.05		0.35	10.05	0.05	16.04	1.89
10/12/93	37.59	32.55	108.76	136.00	28.97	7.51	24.89	9.62		0.00	15.73	0.00	13.29	2.98
10/14/93	75.60	15.00	89.45	86.91	31.89	2.36	24.63	7.14		0.07	16.45	0.00	19.63	24.65
10/16/93	15.04	0.02	52.12	35.58	16.81	0.00	19.84	0.03		1.64	11.29	3.17	32.20	38.51
10/18/93	60.93	32.09	165.35	214.30	41.24	14.95	40.55	9.79	12.11	0.00	12.49	0.00	12.71	18.87
10/20/93	61.15	37.43	104.64	111.30	57.37	3.11	71.00	17.07	23.72	2.05	31.49	0.01	62.23	33.77
10/22/93	55.39	0.24	100.83	40.93	43.49	0.01	55.65	0.37	74.15	0.70	40.73	0.15	47.57	24.94
10/24/93	93.73	23.12	270.76	119.80	57.64	8.47	37.11	9.13	38.56	17.18	28.43	0.05	36.10	30.08
10/26/93	54.96	1.24	92.61	60.08	55.38	0.03	65.66	0.93	33.57	2.37		0.03	22.86	8.29
10/28/93	51.93	23.76	260.60	118.20	73.35	6.44	50.08	3.04	36.69	8.64	44.63	0.08	28.98	6.00
10/30/93	45.43	0.17	99.62	26.79	27.74	0.00		0.02	65.43	3.38	34.74	0.83	35.68	69.00
11/1/93	95.51	53.56	224.47	133.00	89.99	6.28	35.40	8.65	34.03	0.00	34.91	0.00	22.04	3.38
11/3/93	190.74	18.43	338.70	62.89	184.06	2.44	116.85	2.87	167.80	6.44	81.81	0.00	60.67	0.96
11/5/93	45.06	39.72	120.89	263.00	36.05	17.23	29.95	10.79	27.00	0.00	41.03	0.00	16.28	15.67
11/7/93	39.58	19.13	104.22	93.16	33.58	4.48		8.36	13.57	0.65	23.51	0.16	16.03	6.71
11/9/93	54.22	0.00	117.55	27.84	35.47	0.00	71.77	0.17	65.86	1.85	59.82	2.67	50.12	39.14
11/11/93	133.35	8.76	273.53	79.47	101.29	4.51	127.68	8.61	82.31	0.67	77.08	2.63	144.85	66.00
11/13/93	73.14	32.75	235.03	110.20	70.68	4.40	46.36	3.53	40.08	9.90	39.95	0.00	36.34	39.46
11/15/93	66.74	5.55	151.64	120.90	54.82	7.23	86.36	6.96	37.15	0.00	35.41	0.00	33.11	4.18
11/17/93	48.88	2.73	199.99	57.07	42.61	0.69	79.47	0.30	79.27	0.02	72.74	0.00	30.07	42.80
11/19/93	56.73	21.71	117.46	97.84	69.83	2.97	58.13	8.33	27.90	0.00	29.41	0.00	12.24	4.42
11/21/93	63.92	7.42	199.42	70.86	53.87	0.94	105.34	16.45	80.81	0.00	73.45	0.00	25.84	17.87
11/23/93	56.58	48.91	140.40	186.80	29.01	11.69	16.71	6.51	10.31	0.00	13.83	0.00	6.98	2.21
11/25/93	68.94	0.00	67.71	24.20	69.78	0.00	88.32	0.00	52.18	40.33	43.53	3.46	57.13	65.28
11/27/93	57.97	1.13	78.02	17.45	41.27	0.03	63.28	11.32	117.87	2.59	31.02	1.29	70.91	117.50
11/29/93	62.37	6.15	112.34	25.28	35.92	0.06	47.31	3.09	57.01	19.70	29.51	0.05	28.33	60.68
12/1/93	32.85	16.28	107.06	115.20	22.56	3.80	21.41	0.19	6.65	0.00	4.47	0.00	4.12	0.01
12/3/93	33.84	12.22	170.53	84.45	20.64	5.04	35.50	0.09	30.59	5.35	9.03	0.65	11.71	0.09
12/5/93	29.70	6.33	59.60	85.01	19.32	4.31	31.56	0.01	11.62	47.29	7.57	0.47	13.60	0.30
12/7/93	29.01	1.62	88.60	36.75	16.69	1.97	30.77	0.86	46.35	10.11	14.09	0.12	34.82	7.05
12/9/93	33.29	15.42	97.05	163.10	16.78	7.59	19.31	2.02	3.60	0.00	4.72	0.00	5.69	11.98
12/11/93	34.82	0.71	64.77	26.31	30.33	0.10	38.19	1.19	28.39	0.06	19.78	0.05	28.90	116.00
12/13/93	30.15	3.15	84.25	58.97	17.21	3.74		0.02	29.51	30.13	6.34	2.98	11.90	22.99
12/15/93	70.48	60.47	202.76	295.70	42.42	17.97	29.43	17.33	14.00	0.00	11.54	0.00	20.60	35.14
12/17/93	46.18	0.23	53.62	26.76	24.45	0.00	48.76	35.69	25.90	4.53	14.05	0.99	20.30	9.22
12/19/93	45.14	23.86	89.00	155.70	31.93	7.50	36.18	8.30	11.13	11.59	15.71	3.31	14.59	19.63
12/21/93	34.18	20.68	87.07	139.70	20.34	7.63	23.25	12.80	10.40	0.04	8.69	0.00	9.91	25.35
12/23/93	38.52	10.21	81.34	129.50	22.12	6.25	29.94	10.70	16.34	12.16	10.97	0.00	22.90	95.03
12/25/93	33.31	0.00	42.24	0.00	53.01	0.00	56.74	17.22	106.77	4.75	23.25	0.15	159.35	109.10
12/27/93	49.69	21.63	68.77	62.21	36.29	0.59	45.69	8.03	19.91	0.00	19.38	0.00	38.70	54.79
12/29/93	42.94	0.01	85.58	22.30	22.31	0.00	49.46	2.46	40.29	5.97	21.18	1.83	18.78	10.42
12/31/93	47.78	23.89	198.07	106.90	32.58	5.21	18.39	3.70	6.15	5.80	8.96	0.00	5.55	8.91
1/2/94	30.68	16.93	189.08	150.00	25.28	8.42	8.88	0.05	2.52	0.00	2.71	0.00	2.02	0.00
1/4/94	30.44	9.62	103.23	76.67	13.71	1.97	22.11	0.61	25.97	0.00	5.88	0.00	15.73	111.80
1/6/94	108.80	46.85	297.82	96.01	23.22	2.90	15.29	5.23	3.64	0.00	4.09	0.00	3.40	1.15
1/8/94	29.61	0.49	128.85	29.53	15.96	0.00	23.65	0.44	12.22	0.05	8.18	0.00	31.36	45.92
1/10/94	41.81	29.50	84.51	61.08	12.51	0.66	13.82	16.73	3.74	0.00	2.36	0.00	1.94	6.37
1/12/94	54.21	59.93	232.71	198.40	24.69	10.01	12.50	6.66	1.46	0.00	2.70	0.00	0.81	7.99
1/14/94	43.56	8.17	113.23	134.80	25.49	6.22	34.48	0.01	32.07	25.22	5.14	0.01	14.56	25.41
1/16/94	66.98	62.57	281.96	156.30	28.82	8.59	10.78	4.45	5.65	0.00	5.87	0.00	5.10	1.09
1/18/94	55.67	8.27	198.87	70.09	38.77	5.36	76.45	0.04	56.08	7.13	11.52	0.10	66.44	19.49
1/20/94	89.48	0.00	173.22	11.07	78.76	0.00	103.00	5.65	101.56	6.73	26.18	3.82	74.62	111.30
1/22/94	52.41	0.00	78.79	7.01	39.15	0.00	68.35	0.37	80.75	16.22	24.55	0.62	51.35	21.61
1/24/94	32.50	1.28	117.87	55.04	25.99	0.19	35.76	0.00	14.13	0.00	16.54	0.00	11.72	21.13
1/26/94	57.32	70.39	89.33	226.50	5.47	12.33	6.12	7.84	4.34	0.00	4.36	0.00	3.00	2.14
1/28/94	49.86	18.02	92.97	101.10	33.44	6.78	31.89	0.72	38.33	5.77	7.41	0.62	8.39	4.69
1/30/94	16.05	0.00	38.31	18.09	17.21	0.00	26.22	0.00	26.37	27.39	8.71	0.30	4.87	29.15
2/1/94	66.81	1.22	102.45	36.78	39.06	0.68	57.62	2.11	17.62	0.00	11.77	0.00	58.89	10.92
2/3/94	71.23	6.21	136.77	62.58	68.03	2.61	101.24	0.54	46.79	1.46	12.33	0.03	176.38	43.28
2/5/94	70.62	24.12	130.83	55.26	50.16	0.27	72.03	2.82	56.88	0.51	12.17	3.59	74.92	15.12
2/7/94	22.31	13.37	120.26	78.24	12.72	1.12	12.45	0.29	3.50	0.00	4.33	0.00	2.18	0.03
2/9/94	55.86	24.02	166.56	193.70	35.34	12.70	23.59	0.37	33.15	0.00	8.31	0.00	4.53	0.04
2/11/94	54.54	35.67	123.34	126.00	25.05	8.37	17.44	3.91	7.27	0.00	6.54	0.00	10.83	13.73
2/13/94	33.01	1.00	100.59	24.21	19.29	0.03	27.14	6.62	37.16	0.10	14.55	0.00	13.26	24.47
2/15/94	40.73	0.00	87.33	6.63	30.21	0.00	68.92	7.86	117.84	4.52	11.64	1.08	74.01	31.41
2/17/94		4.91	172.75	83.60	41.35	3.97	24.59	3.29	14.70	0.00	6.76	0.00		0.64
2/19/94	45.14	29.77	109.50	129.70	18.96	7.31	22.81	11.58	2.27	0.00	2.79	0.00		5.75
2/21/94	26.82	8.98	54.40	142.60	14.93	7.46	13.78	0.01	2.76	1.50	2.31	0.11	0.54	0.00
2/23/94	30.33	8.04	100.95	112.10	20.11	4.73	20.11	0.01	24.04	0.00	6.07	0.00	1.75	0.00
2/25/94	66.97	24.43	108.28	57.64	16.64	2.04	26.40	2.90	20.87	1.91	6.20	0.09	24.41	43.91
2/27/94	45.52	37.20	132.79	100.30	13.80	3.51	5.47	7.75	3.09	0.00	3.98	0.00	3.13	2.22
3/1/94	51.16	11.90	106.82	83.54	48.15	4.37	50.01	5.67	14.79	0.00	13.31	0.01	13.50	9.37
3/3/94	77.88	1.92	159.41	32.49	47.00	0.09	67.72	6.49	38.81	17.61	15.19	0.00	29.82	69.91
3/5/94	41.01	15.58	96.60	237.70	28.00	13.30	30.62	12.79	10.83	1.80	11.90	0.10	21.67	28.99
3/7/94	54.11	7.79	131.50	160.90	46.37	4.60	56.39	5.30	20.15	0.00	17.28	0.00	16.12	14.26
3/9/94	57.00	3.61	171.43	59.82	58.71	1.96	52.70	6.89	22.21	0.00	26.21	0.00	16.67	12.47
3/11/94	36.77	8.72	52.45	19.00	25.54	0.13	23.61	11.67	21.21	0.14	10.55	0.00	12.23	52.01
3/13/94	32.48	3.92	101.27	51.25	49.54	0.78	45.51	4.49		0.00	22.48	0.00	21.48	13.29
3/15/94	59.52	0.50	204.25	33.46	95.71	0.00	64.89	0.00	38.52	0.75	81.77	0.00	20.20	0.02
3/17/94	218.66	36.40	372.99	112.00	164.09	4.41	62.97	8.54	50.90	0.00	60.45	0.00	32.18	2.35
3/19/94	108.18	47.16	334.43	208.40	115.39	15.25	36.66	0.93	31.80	0.00	36.31	0.00	24.68	0.10
3/21/94	56.48	7.48	143.71	40.01	85.73	0.90	56.19	14.26	40.37	0.00	53.85	0.00	22.22	5.65
3/23/94	59.87	24.20	246.29	131.90	47.32	10.77	22.00	3.39	17.48	0.00	19.98	0.00	6.32	1.21
3/25/94	50.31	0.56	78.15	36.71	37.84	0.01	48.70	19.53	70.85	3.70	36.28	1.72	39.34	39.68
3/27/94	60.20	9.76	105.93	100.80	40.78	6.30	34.33	13.57	32.89	1.01	38.17	0.82	17.58	12.97
3/29/94	69.77	0.09	88.90	22.39	74.67	0.00	66.39	0.91	58.73	6.28	82.66	1.28	26.57	7.76
3/31/94	103.94	6.67	230.35	54.70	160.10	2.08	129.25	10.38	88.85	0.47	78.82	0.36	56.27	15.80

Table AI-1-2: Comparison of TSP monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
4/2/94	43.29	0.44	91.97	44.91	40.23	0.00	44.36	0.04	31.16	0.10	46.63	0.08	49.58	2.01
4/4/94	66.35	41.42	204.77	101.10	33.73	5.91	24.63	23.11	15.64	0.00	20.73	0.00	15.32	17.29
4/6/94	54.54	34.95	147.98	148.30	23.35	5.21	13.78	1.68	9.80	0.00	12.87	0.00	6.77	0.30
4/8/94	37.65	3.37	114.43	76.57	33.02	2.03	29.88	0.00	41.29	3.07	17.62	0.43	11.43	3.29
4/10/94	45.54	40.08	166.44	228.80	33.35	16.51	11.25	1.73	6.94	0.00	7.59	0.00	9.98	0.64
4/12/94	63.99	13.29	236.75	88.03	52.07	2.41	37.43	0.31	14.08	0.00	42.17	0.00	12.11	0.03
4/14/94	141.12	35.76	442.63	110.90	142.14	6.29	72.74	7.54	61.85	0.00	59.55	0.00	48.04	2.13
4/16/94	61.91	1.72	155.40	41.72	64.79	0.77	61.16	0.36	98.50	0.08	102.57	0.24	42.07	2.96
4/18/94	86.07	0.80	132.48	49.77	125.11	0.36	79.07	0.00	88.62	2.88	174.52	0.30	56.70	0.03
4/20/94	84.98	1.65	116.68	30.52	94.07	0.13	132.97	6.22	96.82	6.94	68.99	0.73	61.30	39.06
4/22/94	96.13	36.13	242.50	72.76	129.49	3.56	85.33	11.41	84.52	0.00	77.28	0.00	59.94	13.01
4/24/94	53.60	16.31	97.03	141.30	76.30	4.96	58.74	8.22	61.78	5.07	50.03	0.37		30.57
4/26/94	19.20	9.21	27.52	144.80	14.24	7.97	14.20	0.03	24.58	8.67	13.97	0.13	8.99	6.24
4/28/94	23.53	0.00	37.35	6.97	56.26	0.00	34.36	0.05	36.79	13.21	19.19	0.54	14.83	1.74
4/30/94	50.53	15.84	124.49	68.27	67.32	2.53	41.30	4.15	66.56	0.00	29.95	0.00	20.62	6.64
5/2/94	44.80	15.90	120.57	66.92	65.11	2.07	43.70	6.14	37.28	0.00	31.98	0.00	20.94	2.48
5/4/94	28.95	4.54	98.64	41.38	47.56	0.23	52.71	0.11	54.31	0.49	40.55	0.28	13.50	0.91
5/6/94	42.39	0.09	148.32	14.09	84.14	0.00	48.80	0.00	61.07	2.99	61.36	1.36	23.47	0.11
5/8/94	32.39	0.24	58.13	24.15	40.56	0.00	35.02	2.03	31.90	0.58	31.17	0.30	25.93	18.73
5/10/94	101.03	15.90	136.32	117.20	61.52	7.07	59.88	5.59	41.13	0.01	58.11	0.03	26.89	6.68
5/12/94	104.53	15.84	222.02	78.20	128.55	3.56	89.63	4.93	76.44	0.00	72.01	0.00	42.34	12.05
5/14/94	44.09	7.09	121.24	68.00	57.07	2.60	45.80	0.31	23.18	0.09	70.99	0.07	26.71	11.48
5/16/94	61.58	25.84	148.58	130.80	71.77	8.70	60.11	3.34	49.72	1.98	57.73	0.02	31.46	14.90
5/18/94	46.36	17.94		105.00	35.45	7.25	53.83	9.28	33.69	3.61	21.70	0.59	22.70	15.83
5/20/94	39.64	21.64	110.03	141.00	31.28	7.24	34.80	12.07	14.28	0.00	20.51	0.00	10.58	5.18
5/22/94	56.17	25.25	137.98	50.77	48.16	0.54	38.78	12.71	49.69	1.70	31.58	0.81	28.82	14.59
5/24/94	59.67	0.04	99.33	29.61	88.19	0.00	92.60	1.81	55.01	1.68	60.95	0.91	53.20	26.99
5/26/94	85.54	1.00	243.44	22.72	143.26	0.01	127.89	0.76	97.27	0.00	129.89	0.00	67.93	35.29
5/28/94	34.85	15.32	127.89	110.30		5.29	25.19	0.56	19.72	0.18	20.10	0.13	12.41	0.11
5/30/94	48.42	26.19	199.96	139.70	55.72	8.87	43.67	4.28	40.87	0.23	38.80	0.01	19.37	5.09
6/1/94	64.30	49.51	252.36	196.70	63.85	11.87	44.07	5.72	16.68	0.00	18.21	0.00	13.84	1.75
6/3/94	59.89	1.77	127.95	46.19	134.88	0.71	67.16	1.72	49.06	0.29	44.59	0.00	40.28	3.63
6/5/94	17.35	0.91	80.05	32.94	62.56	0.03	39.18	0.00	92.76	1.80	67.64	0.09	27.34	0.10
6/7/94	36.59	25.74	80.10	137.00	43.50	5.57	56.62	8.78	20.05	0.00	19.27	0.00	21.30	3.26
6/9/94	47.65	27.09	124.16	156.20	70.85	5.31	66.14	3.32	18.76	0.00	47.99	0.00	23.22	5.58
6/11/94	52.99	3.25	93.72	52.10	66.36	1.25	69.75	7.78	43.98	1.20	60.28	0.69	70.12	19.20
6/13/94	97.57	35.89	252.04	129.20	124.07	7.42	110.91	25.91	55.15	0.00	59.83	0.00	51.60	12.95
6/15/94	52.86	10.41	137.92	57.26	103.19	2.32	57.12	13.74	44.66	0.15	43.86	0.00	43.21	15.93
6/17/94	51.32	0.00	143.27	25.07	81.13	0.00	49.14	0.00	41.89	2.36	68.87	0.50	27.75	0.25
6/19/94	50.43	12.16	187.06	63.19	66.89	1.20	73.23	2.70	27.25	0.61	49.40	0.44	29.89	12.13
6/21/94	82.91	1.71		19.41	117.58	0.01	105.05	8.78	60.18	0.14	86.85	0.00	63.03	6.26
6/23/94	73.30	10.79	140.49	64.72	103.12	2.06	78.10	11.54	41.01	0.11	57.14	0.14	70.73	18.78
6/25/94	51.76	2.08	79.28	45.16	65.12	0.08	64.63	0.00	40.42	2.00	86.33	0.19	41.35	4.02
6/27/94	47.02	4.47	104.23	57.80	97.66	2.92	67.35	7.18	36.08	0.00	47.02	0.00	29.02	20.00
6/29/94	130.16	54.73	307.81	124.00	140.64	4.99	76.06	6.36	48.59	0.05	61.23	0.08	78.58	20.63
7/1/94	106.95	18.08	201.90	87.96	132.43	5.14	79.41	10.58	36.71	0.00	55.14	0.00	38.62	8.91
7/3/94	78.54	32.81	241.47	214.90	75.18	13.07	27.05	5.97	24.44	0.00	34.54	0.00	16.66	1.79
7/5/94	173.08	14.10	281.57	40.53	261.09	0.28	161.31	4.21	102.91	0.00	126.73	0.00	80.48	8.22
7/7/94	33.38	0.04	45.96	11.49	26.58	0.00	27.79	0.75	38.89	25.16	34.04	0.05	28.63	11.03
7/9/94	58.47	4.60	137.31	75.00	61.40	2.84	56.15	1.92	52.32	1.38	49.25	0.01	38.78	11.45
7/11/94	84.03	36.81	296.05	156.80		8.40	55.94	9.20	30.37	0.68	37.08	0.02		5.47
7/13/94	77.46	9.40	116.93	24.03	84.27	0.44	50.00	7.43	41.19	4.55	58.25	0.02	32.02	37.62
7/15/94	81.60	13.08	191.31	103.20	73.77	6.14	58.15	3.02	43.18	0.29	60.79	0.00	39.32	22.70
7/17/94	73.80	15.23	201.89	98.95	65.14	4.63	59.96	9.88	29.57	0.00	52.47	0.00	49.40	15.06
7/19/94	76.29	19.39		74.15	119.59	3.01	72.10	7.17	41.63	0.04	73.28	0.00	39.24	26.62
7/21/94	98.93	34.06	162.02	110.10	100.71	2.25	69.51	0.41	59.59	3.57	95.46	0.41	45.62	52.77
7/23/94	54.86	6.43	134.29	48.98	121.52	1.33	61.20	0.05	55.26	1.43	77.39	0.10	37.92	1.29
7/25/94	65.14	0.56	94.06	30.49	82.39	0.01	67.57	0.15	81.23	1.60	128.95	0.04	61.76	10.51
7/27/94	120.85	0.75	185.92	33.20	164.68	0.34	126.86	0.75	106.90	13.03	129.69	0.44	96.44	47.44
7/29/94	122.25	0.00	115.01	8.98	93.96	0.00	84.11	2.83	92.54	7.45	125.03	1.13	73.32	77.63
7/31/94	81.71	0.10	170.96	35.01		0.00	97.55	6.67	91.89	0.23	101.91	0.05	68.11	45.08
8/2/94	122.35	0.64	151.96	29.27	106.81	0.19	107.50	2.12	129.53	0.24	129.95	0.02	111.27	10.19
8/4/94	117.45	1.58	201.16	28.31	116.62	0.05	137.36	0.45	72.62	0.48	132.59	0.22	56.03	56.27
8/6/94	109.59	29.64	252.91	163.90		9.60	64.35	12.50	52.06	0.00	117.48	0.00	44.12	5.41
8/8/94	170.70	2.65	224.04	21.24		0.06	130.14	13.65	104.57	0.09	293.00	0.14	85.68	21.45
8/10/94	176.82	1.80	191.95	52.67		1.80	87.23	3.66	46.11	4.91	260.42	0.05	33.52	1.62
8/12/94	128.15	5.70	184.60	33.33		1.38	87.28	0.08	84.83	2.86	111.89	2.45	46.90	32.29
8/14/94	88.84	36.11	138.08	84.42		1.86	67.30	2.48	78.88	6.12	75.17	0.92	64.80	31.76
8/16/94	138.50	12.42	281.81	106.40		3.11	119.01	23.46	84.43	0.01	131.35	0.02	105.84	8.96
8/18/94	161.94	5.58	222.14	40.25		0.32	133.66	1.40	84.52	0.00	135.66	0.00	105.56	19.65
8/20/94	135.42	1.88		40.23		2.07	100.75	0.46	87.24	0.28	143.97	0.16	79.80	22.09
8/22/94	139.64	26.57	349.34	120.30		8.93	89.33	4.72	86.87	0.06	89.87	0.00	74.14	1.45
8/24/94	148.52	12.20	260.65	84.13		5.58	115.38	14.51	57.02	0.00		0.00	83.73	21.84
8/26/94	166.78	5.07	215.30	37.67		0.48	97.76	26.39	60.38	0.00	86.88	0.00	50.03	48.59
8/28/94	67.27	2.02	177.24	61.08		0.78	73.66	2.56	128.39	0.08	140.51	0.08	34.78	2.14
8/30/94	131.22	18.08	206.73	112.00		4.63	103.78	7.14	65.21	0.57	93.28	0.10	67.81	10.69
9/1/94	123.36	0.13	155.41	27.60		0.00	149.97	2.72	81.06	0.09	129.86	0.10	87.80	36.16
9/3/94	194.10	33.79	411.50	201.40		15.05	132.96	14.93	138.87	0.00	144.34	0.00	92.06	5.16
9/5/94	65.78	0.60	141.45	34.07		0.13	83.06	3.31	61.07	0.41	90.71	0.01	68.79	10.18
9/7/94	121.55	0.45	153.70	45.41		0.00	89.97	4.77	83.11	0.39	141.70	0.07	41.59	47.28
9/9/94	145.59	29.23	309.67	93.48		5.86	115.71	11.74	107.67	0.00	115.81	0.00	78.67	46.74
9/11/94	80.40	23.60	259.13	122.30		6.12	70.40	4.70	45.32	17.77	49.34	0.00	37.12	9.93
9/13/94	143.29	38.41		134.80		5.57	133.51	15.78	104.79	0.00	111.98	0.00	76.00	55.05
9/15/94	48.21	0.68	74.28	39.49		0.01	50.23	2.50	29.94	0.11	83.79	0.00	34.46	22.91
9/17/94	54.63	1.70	129.18	41.91		0.15	67.70	0.26	79.38	0.49	148.54	0.78	48.29	3.29
9/19/94	107.11	2.50	146.94	99.01		4.60	107.55	0.00	63.17	1.01	252.81	0.10	112.10	34.59
9/21/94	141.69	0.13	189.29	28.41		0.00	144.98	0.00	87.85	13.85	287.58	0.01	102.69	76.24
9/23/94	104.52	14.15	188.46	34.30		0.00	115.34	3.32	77.30	1.70	141.24	0.77	104.26	25.11
9/25/94	79.95	0.74	139.56	42.53		0.02	93.99	0.15	68.27	0.28	61.33	0.12	66.53	47.84
9/27/94	149.09	2.31	220.46	52.52		1.53	156.99	1.18	104.51	0.00	271.42	0.00	120.97	12.58
9/29/94	88.89	18.78		138.80		6.74	73.27	11.05	23.71	0.00	43.96	0.00	25.68	2.74
Maximum	218.7	70.39	442.6	295.7	261.1	17.97	161.3	35.69	167.8	47.29	293.0	3.82	176.4	117.5
Minimum	15.0	0.00	27.5	0.00	5.5	0.00	5.5	0.00	1.5	0.00	2.3	0.00	0.5	0.00
Average	61.4	14.5	135.5	82.8	47.1	3.6	49.4	5.5	34.8	3.1	32.3	0.3	27.1	21.1
Std. dev.	39.6	15.4	76.4	56.9	41.6	4.1	35.5	6.0	32.9	6.9	55.8	0.7	32.1	24.4
Count	181	182	176	182	149	182	179	182	173	182	179	182	178	182

Note: blank values indicate missing data or non-detect values. Because many zero values appeared in the modeled TSP data, the arithmetic mean has been used for modeled data.

Table Al-1-3: Comparison of Arsenic monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	1.59E-03	5.83E-04	1.77E-03	1.80E-03		1.89E-05	1.93E-03	3.60E-06		3.39E-04	1.54E-03	0.00	1.71E-03	1.04E-03
10/8/93	1.75E-04	2.34E-04	3.32E-04	7.03E-04	1.67E-04	6.16E-05	1.67E-04	6.75E-05		7.54E-05	1.67E-04	2.71E-10	1.67E-04	1.46E-04
10/12/93	9.55E-04	7.21E-04	1.35E-03	3.01E-03	8.28E-04	2.04E-04	8.34E-04	2.58E-04		0.00	7.40E-04	0.00	7.06E-04	6.48E-05
10/16/93	1.67E-04	2.91E-07	4.12E-04	4.59E-04	2.31E-04	0.00E+00	2.62E-04	4.31E-07	1.67E-04	0.00	1.67E-04	0.00	1.75E-04	9.52E-04
10/20/93	1.67E-04	8.80E-04	3.47E-04	3.13E-03	2.07E-04	0.00	2.81E-04	4.62E-04	1.67E-04	5.41E-05	1.67E-04	1.89E-07	1.67E-04	9.18E-04
10/24/93	1.61E-03	4.07E-04	2.45E-03	2.74E-03	1.19E-03	2.38E-04	1.24E-03	0.00	1.35E-03	0.00	1.36E-03	0.00		8.55E-04
10/28/93	3.99E-04	4.05E-04	1.45E-03	2.92E-03	1.67E-04	1.68E-04	1.67E-04	6.02E-05	2.77E-04	2.28E-04	1.67E-04	2.17E-06	1.67E-04	1.44E-04
11/1/93		1.13E-03	1.75E-03	3.52E-03	3.08E-04	1.72E-04	2.34E-04	1.90E-04	1.88E-04	0.00E+00	1.69E-04	0.00E+00	1.67E-04	5.94E-05
11/5/93	2.83E-04	8.02E-04	1.20E-03	4.84E-03	2.40E-04	5.11E-04	1.67E-04	2.56E-04	1.89E-04	0.00E+00	1.70E-04	0.00E+00	1.67E-04	3.88E-04
11/9/93	1.25E-03	5.30E-09	1.42E-03	3.11E-04	1.17E-03	0.00E+00	1.39E-03	3.80E-06	1.30E-03	0.00	9.24E-04	0.00	1.27E-03	1.03E-03
11/13/93	5.42E-04	6.16E-04	1.17E-03	2.94E-03	3.17E-04	1.17E-04	3.89E-04	7.67E-05	3.19E-04	2.88E-04	3.05E-04	1.10E-08	3.68E-04	1.00E-03
11/17/93	1.43E-03	2.37E-05	1.99E-03	1.15E-03	1.39E-03	9.06E-06	1.48E-03	5.44E-06	1.60E-03	4.16E-07	1.27E-03	0.00E+00	1.70E-03	1.11E-03
11/21/93	2.75E-03	1.64E-04	3.13E-03	2.78E-03	3.39E-03	2.88E-05	3.00E-03	4.28E-04	1.89E-03	0.00E+00	3.75E-03	0.00E+00	1.11E-03	4.54E-04
11/25/93	2.62E-04	2.26E-12	1.67E-04	2.89E-04	3.22E-04	0.00E+00	4.47E-04	1.27E-08	1.67E-04	1.28E-03	1.67E-04	9.73E-05	1.55E-04	1.60E-03
11/29/93	1.70E-03	1.76E-04	1.84E-03	4.29E-04	1.32E-03	1.75E-06	1.28E-03	6.22E-05	2.04E-03	5.49E-04	1.06E-03	1.11E-06	1.63E-03	1.55E-03
12/3/93	2.51E-04	2.21E-04	5.33E-04	1.67E-03	1.98E-04	1.33E-04	2.06E-04	1.36E-06	1.67E-04	1.63E-04	1.67E-04	1.61E-05	1.67E-04	1.51E-06
12/7/93	3.32E-04	2.38E-05	4.75E-04	4.56E-04	4.46E-04	4.55E-05	3.48E-04	1.92E-05	6.43E-04	2.68E-04	4.11E-04	3.81E-06	5.73E-04	1.71E-04
12/11/93	1.81E-03	6.34E-06	1.87E-03	4.63E-04	1.51E-03	1.24E-06	1.78E-03	2.02E-05	2.36E-03	1.19E-06	1.41E-03	1.15E-06	2.06E-03	2.91E-03
12/15/93	4.58E-04	1.28E-03	1.25E-03	6.06E-03	3.88E-04	5.91E-04	4.21E-04	4.51E-04	4.69E-04	0.00	1.67E-04	0.00	4.08E-04	9.55E-04
12/19/93	1.67E-04	4.41E-04	6.67E-04	3.51E-03	1.72E-04	1.97E-04	2.15E-04	1.93E-04	1.67E-04	0.00	1.67E-04	0.00	1.67E-04	4.63E-04
12/23/93	1.67E-04	1.76E-04	1.99E-04	2.51E-03	1.67E-04	1.81E-04	1.67E-04	2.63E-04	1.67E-04	3.66E-04	1.67E-04	0.00E+00	1.67E-04	2.42E-03
12/25/93	2.20E-04	3.86E-08	1.80E-04	1.17E-08	2.10E-04	0.00E+00	2.50E-04	4.67E-04	5.20E-04	1.21E-04	1.70E-04	4.43E-06	5.80E-04	2.81E-03
12/27/93	8.19E-04	5.52E-04	8.60E-04	1.44E-03	6.56E-04	1.52E-05	8.78E-04	1.64E-04	5.75E-04	6.49E-09	5.91E-04	3.01E-08	1.05E-03	1.47E-03
12/31/93	5.52E-04	4.99E-04	1.46E-03	2.42E-03		1.43E-04	5.91E-04	7.10E-05	1.67E-04	1.76E-04	1.67E-04	1.72E-10	1.67E-04	2.75E-04
1/4/94	5.03E-04	1.59E-04	1.59E-03	1.66E-03	4.89E-04	0.00	5.98E-04	1.28E-05	5.60E-04	7.70E-12	3.51E-04	0.00E+00	5.07E-04	2.76E-03
1/6/94	8.30E-04	9.97E-04	2.79E-03	2.69E-03	1.67E-04	7.21E-05	1.67E-04	1.06E-04	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	1.71E-05
1/8/94	1.06E-03	2.15E-06	1.26E-03	6.09E-04	1.09E-03	1.28E-11	1.33E-03	7.51E-06	8.42E-04	0.00	8.43E-04	0.00	1.18E-03	1.11E-03
1/12/94	2.62E-04	1.34E-03	1.38E-03	4.37E-03	1.91E-04	2.42E-04	1.67E-04	1.55E-04	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	1.90E-04
1/16/94	4.17E-04	1.39E-03	3.81E-03	3.72E-03	2.11E-04	2.12E-04	1.67E-04	9.07E-05	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	1.78E-05
1/20/94	7.48E-04	1.45E-09	1.38E-03	2.19E-04	9.40E-04	0.00E+00	1.02E-03	1.17E-04	1.07E-03	2.23E-04	6.65E-04	1.14E-04	1.18E-03	3.02E-03
1/24/94	1.86E-03	1.40E-05	1.86E-03	9.99E-04	1.91E-03	3.55E-06	2.17E-03	0.00E+00	1.56E-03	0.00E+00	1.48E-03	0.00E+00	1.35E-03	5.29E-04
1/28/94	2.63E-04	3.35E-04	3.91E-04	2.16E-03	1.74E-04	1.85E-04	1.67E-04	1.22E-05	2.11E-04	1.68E-04	1.67E-04	2.01E-05	1.67E-04	1.07E-04
2/1/94	3.38E-04	1.82E-05		7.22E-04	1.77E-04	1.38E-05	1.67E-04	4.15E-05	1.67E-04	8.50E-12	1.67E-04	8.95E-10	2.83E-04	2.71E-04
2/5/94	4.42E-04	6.39E-04	4.98E-04	1.12E-03	4.03E-04	5.61E-06	4.56E-04	5.99E-05	3.38E-04	1.35E-05	1.67E-04	1.04E-04	2.51E-04	3.11E-04
2/9/94	3.48E-04	4.13E-04	1.55E-03	3.94E-03	3.27E-04	3.26E-04	1.92E-04	6.73E-06	1.67E-04	0.00	1.67E-04	0.00	1.67E-04	2.63E-07
2/13/94	9.65E-04	7.36E-06	6.91E-04	5.26E-04	1.30E-03	3.13E-07	1.33E-03	1.70E-04	1.06E-03	0.00	8.85E-04	0.00	1.00E-03	5.97E-04
2/17/94	8.95E-04	6.05E-05	1.83E-03	1.53E-03	1.05E-03	8.93E-05	9.31E-04	1.02E-04	9.17E-04	2.43E-10	1.22E-03	1.27E-09	9.17E-04	6.29E-06
2/21/94	1.67E-04	1.07E-04	1.67E-04	2.69E-03		1.83E-04	1.96E-04	1.04E-07		0.00	1.67E-04	0.00		3.37E-09
2/25/94	3.61E-04	6.01E-04	7.22E-04	1.28E-03	1.67E-04	5.37E-05	1.67E-04	5.97E-05	1.67E-04	4.31E-05	1.67E-04	1.86E-06	1.67E-04	1.11E-03
3/1/94	2.30E-04	2.59E-04	4.90E-04	1.69E-03	3.21E-04	1.09E-04	3.16E-04	1.46E-04	2.09E-04	0.00	1.67E-04	0.00	1.67E-04	2.45E-04
3/5/94	1.67E-04	3.16E-04	4.69E-04	6.07E-03	1.67E-04	4.07E-04	1.67E-04	3.35E-04	1.67E-04	4.69E-05	1.67E-04	2.25E-06	1.67E-04	6.66E-04
3/9/94	3.61E-04	5.71E-05	5.75E-04	1.08E-03	3.22E-04	5.81E-05	3.04E-04	1.50E-04	2.49E-04	1.23E-08	1.67E-04	1.20E-09	1.67E-04	2.68E-04
3/13/94	1.67E-04	6.24E-05	3.91E-04	1.04E-03	1.67E-04	2.24E-05	1.67E-04	7.30E-05	1.67E-04	4.85E-13	1.67E-04	9.57E-12	1.67E-04	3.05E-04
3/17/94	1.06E-03	7.86E-04	4.61E-03	2.98E-03	3.28E-04	1.20E-04	2.83E-04	1.97E-04	1.85E-04	0.00E+00	1.67E-04	0.00	2.59E-04	4.25E-05
3/19/94	3.45E-04	9.00E-04	3.24E-03	4.59E-03	1.67E-04	0.00		1.67E-05	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	8.06E-07
3/21/94	9.15E-04	1.59E-04	1.37E-03	7.79E-04		0.00	7.33E-04	3.49E-04	8.70E-04	0.00E+00	4.14E-04	0.00E+00	5.60E-04	1.17E-04
3/25/94	2.36E-04	3.93E-06	4.05E-04	6.81E-04	2.79E-04	1.51E-07	2.49E-04	5.58E-04	3.93E-04	8.52E-05	1.67E-04	4.69E-05	1.67E-04	1.04E-03
3/29/94	1.67E-04	1.95E-06	2.30E-04	1.95E-04	1.79E-04	5.20E-12	2.34E-04	1.97E-05	2.29E-04	1.74E-04	1.67E-04	3.45E-05	1.67E-04	2.18E-04
4/14/94	6.22E-04	7.54E-04	2.35E-03	2.67E-03	2.10E-04	1.76E-04	1.67E-04	1.64E-04	1.67E-04	0.00E+00	1.67E-04	0.00E+00	2.03E-04	3.72E-05
6/7/94	1.67E-04	4.94E-04	3.39E-04	2.97E-03	1.67E-04	1.32E-04	1.67E-04	1.97E-04	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	5.89E-05
9/21/94	6.94E-04	2.83E-07	1.04E-03	3.79E-04		2.32E-10	6.95E-04	0.00E+00	4.45E-04	3.48E-04	1.04E-03	2.64E-07	9.14E-04	1.58E-03
Maximum	2.75E-03	1.39E-03	4.61E-03	6.07E-03	3.39E-03	5.91E-04	3.00E-03	5.58E-04	2.36E-03	1.28E-03	3.75E-03	1.14E-04	2.06E-03	3.02E-03
Minimum	1.67E-04	2.26E-12	1.67E-04	1.17E-08	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.55E-04	3.37E-09
Average	6.53E-04	3.77E-04	1.27E-03	2.02E-03	5.63E-04	1.13E-04	6.17E-04	1.35E-04	5.50E-04	1.16E-04	5.02E-04	1.43E-05	5.30E-04	7.34E-04
Std. Dev.	5.75E-04	3.96E-04	9.97E-04	1.54E-03	6.24E-04	1.38E-04	6.32E-04	1.46E-04	5.74E-04	2.16E-04	6.33E-04	3.22E-05	5.25E-04	8.34E-04
Count	50	51	50	51	46	51	50	51	47	51	51	51	49	51

Note: blanks indicate mission data or non-detect values

Table AI-1-4

Comparison of Beryllium monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 4	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	1.67E-04	3.72E-06	2.20E-04	9.76E-06	1.67E-04	4.26E-08
10/8/93	1.67E-04	1.78E-06	1.67E-04	3.53E-06	1.67E-04	6.15E-07
10/12/93	1.67E-04	4.61E-06	1.67E-04	1.71E-05	1.67E-04	2.14E-06
10/16/93	1.67E-04	9.04E-10	1.67E-04	3.80E-06	1.67E-04	2.66E-09
10/20/93	1.67E-04	5.98E-06	1.67E-04	1.45E-05	1.67E-04	2.57E-06
10/24/93	1.67E-04	3.50E-06	2.71E-04	1.41E-05	1.67E-04	0.00
10/28/93	1.67E-04	3.54E-06	1.67E-04	1.46E-05	1.67E-04	4.58E-07
11/1/93		9.12E-06	1.67E-04	1.46E-05	1.67E-04	1.67E-06
11/5/93	1.67E-04	5.50E-06	1.67E-04	3.52E-05	1.67E-04	2.18E-06
11/9/93	1.67E-04	1.67E-11	1.95E-04	2.63E-06	1.57E-04	2.54E-08
11/13/93	1.77E-04	5.60E-06	2.42E-04	1.18E-05	1.67E-04	7.05E-07
11/17/93	1.67E-04	3.32E-07	2.30E-04	1.03E-05	1.67E-04	3.26E-08
11/21/93	1.67E-04	1.42E-06	1.96E-04	1.04E-05	1.67E-04	2.79E-06
11/25/93	1.67E-04	0.00E+00	1.67E-04	2.45E-06	1.67E-04	8.81E-11
11/29/93	1.67E-04	8.89E-07	1.67E-04	2.62E-06	1.67E-04	4.34E-07
12/3/93	1.67E-04	2.00E-06	1.67E-04	1.03E-05	1.67E-04	1.98E-08
12/7/93	1.67E-04	1.77E-07	1.67E-04	3.88E-06	1.67E-04	1.16E-07
12/11/93	1.67E-04	7.96E-08	1.67E-04	4.02E-06	1.67E-04	1.24E-07
12/15/93	1.67E-04	1.08E-05	1.62E-04	3.74E-05	1.67E-04	3.12E-06
12/19/93	1.67E-04	3.87E-06	1.67E-04	2.05E-05	1.67E-04	1.57E-06
12/23/93	1.67E-04	1.32E-06	1.67E-04	1.96E-05	1.67E-04	1.95E-06
12/25/93	1.67E-04	1.79E-10	1.67E-04	9.62E-11	1.67E-04	2.60E-06
12/27/93	1.67E-04	3.30E-06	1.67E-04	7.48E-06	1.67E-04	1.16E-06
12/31/93	1.67E-04	3.63E-06	1.67E-04	1.38E-05	1.67E-04	4.60E-07
1/4/94	1.67E-04	1.52E-06	1.67E-04	1.24E-05	1.67E-04	1.05E-07
1/6/94	1.67E-04	7.65E-06	1.67E-04	9.86E-06	1.67E-04	9.43E-07
1/8/94	1.67E-04	1.11E-07	1.67E-04	4.96E-06	1.67E-04	4.88E-08
1/12/94	1.67E-04	9.79E-06	1.90E-04	2.58E-05	1.67E-04	1.34E-06
1/16/94	1.67E-04	1.07E-05	1.70E-04	1.80E-05	1.67E-04	8.45E-07
1/20/94	1.67E-04	6.47E-12	1.67E-04	1.78E-06	1.67E-04	7.06E-07
1/24/94	1.67E-04	1.40E-07	1.67E-04	8.17E-06	1.67E-04	0.00E+00
1/28/94	1.67E-04	2.55E-06	1.67E-04	1.17E-05	1.67E-04	9.44E-08
2/1/94		1.34E-07		6.34E-06		2.96E-07
2/5/94	1.67E-04	3.21E-06		8.30E-06	1.67E-04	5.84E-07
2/9/94		2.93E-06		2.78E-05		7.33E-08
2/13/94		1.23E-07		4.16E-06		1.27E-06
2/17/94		5.66E-07		1.41E-05		8.52E-07
2/21/94		9.23E-07		2.37E-05		2.07E-09
2/25/94		3.62E-06		7.39E-06		5.20E-07
3/1/94		1.61E-06		1.33E-05		1.24E-06
3/5/94		2.49E-06		3.44E-05		2.56E-06
3/9/94		3.82E-07		7.89E-06		1.09E-06
3/13/94		5.68E-07		6.39E-06		4.86E-07
3/17/94		5.48E-06		1.33E-05		1.75E-06
3/19/94		7.76E-06		2.61E-05		1.80E-07
3/21/94		8.52E-07		6.25E-06		2.94E-06
3/25/94		1.09E-07		5.42E-06		3.45E-06
3/29/94		9.92E-09		1.60E-06		1.20E-07
4/14/94		5.52E-06		1.36E-05		1.49E-06
6/7/94		3.39E-06		2.10E-05		1.70E-06
9/21/94		3.27E-08		3.02E-06		0.00E+00
Maximum	1.77E-04	1.08E-05	2.71E-04	3.74E-05	1.67E-04	3.45E-06
Minimum	1.67E-04	0.00E+00	1.62E-04	9.62E-11	1.57E-04	0.00E+00
Average	1.67E-04	2.81E-06	1.79E-04	1.22E-05	1.67E-04	9.94E-07
Std. Dev.	1.79E-06	3.03E-06	2.60E-05	9.05E-06	1.65E-06	9.85E-07
Count	32	51	32	51	33	51

Note: blanks indicate mission data or non-detect values

Table A1-1-5: Comparison of Cadmium monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	1.33E-03	4.17E-03	2.11E-03	8.05E-03		1.14E-04	1.33E-03	3.00E-05		2.93E-03	1.33E-03	0.00	3.46E-03	1.65E-02
10/8/93	1.34E-03	3.11E-03	6.75E-03	4.74E-03	1.33E-03	9.64E-04	1.33E-03	9.15E-04		5.87E-04	1.33E-03	1.77E-09	1.33E-03	2.31E-03
10/12/93	7.84E-03	8.43E-03	5.60E-02	2.28E-02	3.63E-03	3.06E-03	1.47E-03	2.94E-03		0.00	1.33E-03	0.00	1.33E-03	4.21E-04
10/16/93	1.33E-03	1.82E-06	3.55E-03	2.05E-03	1.50E-03	0.00E+00	1.33E-03	2.74E-06	2.02E-03	0.00	1.33E-03	0.00	1.36E-03	1.65E-02
10/20/93	1.33E-03	6.85E-03	3.77E-03	1.99E-02	1.51E-03	0.00	1.78E-03	3.89E-03	1.33E-03	8.86E-04	1.33E-03	1.23E-06	1.33E-03	1.06E-02
10/24/93	5.13E-03	4.73E-03	3.55E-02	2.39E-02	2.18E-03	3.61E-03	1.33E-03	0.00	5.05E-03	0.01	1.33E-03	0.00		1.03E-02
10/28/93	1.33E-03	4.61E-03	1.56E-02	2.65E-02	1.33E-03	2.10E-03	1.33E-03	6.51E-04	1.33E-03	3.13E-03	1.33E-03	1.48E-05	1.33E-03	2.13E-03
11/1/93		1.42E-02	3.46E-02	2.66E-02	2.99E-03	2.12E-03	1.32E-03	2.12E-03	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	3.81E-04
11/5/93	1.86E-03	6.72E-03	1.13E-02	3.50E-02	1.57E-03	6.20E-03	1.33E-03	3.16E-03	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	3.98E-03
11/9/93	1.33E-03	3.33E-08	2.00E-03	2.92E-03	1.33E-03	0.00E+00	1.33E-03	3.30E-05	5.94E-03	0.00	1.33E-03	0.00	3.68E-03	1.60E-02
11/13/93	1.85E-03	8.32E-03	2.92E-02	2.75E-02	3.59E-03	1.16E-03	1.33E-03	1.03E-03	1.33E-03	2.36E-03	1.95E-03	6.49E-08	1.33E-03	1.30E-02
11/17/93	1.33E-03	1.65E-04	8.21E-03	7.63E-03	1.33E-03	6.01E-05	1.33E-03	3.00E-05	1.95E-03	3.28E-06	1.35E-03	0.00E+00	2.08E-03	1.62E-02
11/21/93	2.21E-03	1.45E-03	1.50E-02	1.11E-02	1.33E-03	2.04E-04	1.33E-03	4.39E-03	2.19E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	4.45E-03
11/25/93	2.91E-03	1.32E-11	2.29E-03	3.04E-03	3.58E-03	0.00E+00	2.44E-03	1.05E-07	3.51E-03	1.45E-02	1.33E-03	1.38E-03	2.75E-03	2.27E-02
11/29/93	1.24E-02	2.14E-03	5.98E-03	3.10E-03	1.85E-03	1.16E-05	1.90E-03	5.99E-04	8.26E-03	4.24E-03	1.33E-03	7.07E-06	2.96E-03	2.29E-02
12/3/93	1.33E-03	2.72E-03	2.23E-02	1.17E-02	1.33E-03	1.92E-03	1.33E-03	8.93E-06	1.85E-03	2.08E-03	1.33E-03	2.66E-04	1.33E-03	9.55E-06
12/7/93	1.33E-03	1.50E-04	2.23E-03	5.63E-03	1.33E-03	7.48E-04	1.33E-03	1.34E-04	2.57E-03	1.63E-03	1.33E-03	2.28E-05	2.10E-03	2.00E-03
12/11/93	1.63E-03	4.25E-05	4.26E-03	2.26E-03	1.33E-03	7.76E-06	1.33E-03	1.43E-04	1.85E-03	8.24E-06	1.33E-03	9.06E-06	2.44E-03	4.18E-02
12/15/93	2.16E-03	1.67E-02	1.29E-02	4.44E-02	1.57E-03	6.51E-03	1.33E-03	4.48E-03	1.33E-03	0.00	1.61E-03	0.00	2.23E-03	1.30E-02
12/19/93	1.35E-03	5.43E-03	5.68E-03	2.91E-02	1.33E-03	2.68E-03	1.33E-03	2.95E-03	1.33E-03	0.00	1.33E-03	0.00	1.33E-03	5.45E-03
12/23/93	1.33E-03	1.35E-03	5.52E-03	1.55E-02	1.33E-03	2.33E-03	1.33E-03	3.53E-03	1.33E-03	3.09E-03	1.33E-03	0.00E+00	1.33E-03	3.34E-02
12/25/93	1.33E-03	8.52E-08	1.33E-03	2.91E-07	1.33E-03	0.00E+00	1.33E-03	4.14E-03	7.38E-03	1.35E-03	1.33E-03	3.46E-05	9.88E-03	3.48E-02
12/27/93	1.33E-03	6.36E-03	1.33E-03	9.24E-03	2.89E-03	9.99E-05	1.33E-03	1.46E-03	1.33E-03	4.41E-08	1.33E-03	1.92E-07	4.27E-03	1.73E-02
12/31/93	2.81E-03	6.19E-03	1.37E-02	1.74E-02		1.98E-03	1.33E-03	3.52E-04	1.33E-03	2.75E-03	1.33E-03	1.08E-09	1.33E-03	1.68E-03
1/4/94	1.33E-03	1.91E-03	9.39E-03	1.42E-02	1.33E-03	0.00	1.33E-03	1.35E-04	1.33E-03	6.66E-11	1.33E-03	0.00E+00	1.76E-03	4.26E-02
1/6/94	8.87E-03	1.21E-02	3.01E-02	2.03E-02	1.33E-03	5.88E-04	1.33E-03	7.77E-04	1.34E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	1.19E-04
1/8/94	1.33E-03	2.57E-05	4.41E-03	2.00E-03	1.33E-03	8.27E-11	1.33E-03	5.67E-05	1.33E-03	0.00	1.33E-03	0.00	3.59E-03	1.54E-02
1/12/94	1.95E-03	1.70E-02	1.31E-02	3.16E-02	1.33E-03	3.21E-03	1.33E-03	2.09E-03	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	2.49E-03
1/16/94	4.82E-03	1.83E-02	3.22E-02	2.44E-02	1.82E-03	2.98E-03	1.33E-03	7.90E-04	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	1.18E-04
1/20/94	1.33E-03	2.09E-09	3.48E-03	1.68E-03	1.33E-03	0.00E+00	1.33E-03	8.65E-04	3.58E-03	2.45E-03	1.33E-03	1.72E-03	1.47E-03	3.97E-02
1/24/94	1.33E-03	9.08E-05	2.41E-03	4.31E-03	1.33E-03	2.24E-05	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	8.40E-03
1/28/94	1.33E-03	3.88E-03	6.38E-03	2.05E-02	1.69E-03	2.70E-03	1.33E-03	7.13E-05	1.33E-03	1.45E-03	1.33E-03	1.28E-04	1.33E-03	1.70E-03
2/1/94	1.57E-03	1.32E-04		4.08E-03	1.33E-03	1.88E-04	1.33E-03	4.72E-04	1.33E-03	8.35E-11	1.33E-03	5.37E-09	2.99E-03	3.61E-03
2/5/94	1.68E-03	3.50E-03	2.87E-03	5.48E-03	1.33E-03	3.37E-05	1.33E-03	5.28E-04	2.28E-03	1.47E-04	1.33E-03	1.54E-03	1.62E-03	3.48E-03
2/9/94	1.53E-03	4.16E-03	2.24E-02	3.18E-02	1.69E-03	4.76E-03	1.33E-03	4.12E-05	1.33E-03	0.00	1.33E-03	0.00	1.33E-03	2.90E-06
2/13/94	1.33E-03	5.92E-05	1.33E-03	2.04E-03	1.34E-03	3.09E-06	1.33E-03	2.12E-03	1.33E-03	0.00	1.33E-03	0.00	1.33E-03	8.78E-03
2/17/94	1.33E-03	3.92E-04	8.19E-03	1.22E-02	1.33E-03	1.31E-03	1.33E-03	6.62E-04	1.33E-03	2.13E-09	1.33E-03	7.97E-09	1.33E-03	7.26E-05
2/21/94	1.33E-03	7.47E-04	4.64E-03	2.16E-02		2.82E-03	1.33E-03	7.73E-07		0.00	1.33E-03	0.00		5.12E-08
2/25/94	4.11E-03	7.20E-03	1.17E-02	9.75E-03	1.33E-03	7.44E-04	1.33E-03	3.95E-04	1.33E-03	5.40E-04	1.33E-03	1.80E-05	1.33E-03	1.43E-02
3/1/94	1.64E-03	2.79E-03	1.12E-02	1.45E-02	2.48E-03	1.58E-03	1.33E-03	2.14E-03	1.33E-03	0.00	1.33E-03	0.00	1.33E-03	3.26E-03
3/5/94	1.87E-03	2.93E-03	7.95E-03	4.02E-02	1.33E-03	4.94E-03	1.33E-03	3.71E-03	1.33E-03	7.83E-04	1.33E-03	1.64E-05	1.63E-03	9.35E-03
3/9/94	1.33E-03	4.87E-04	8.22E-03	6.81E-03	1.33E-03	9.24E-04	1.33E-03	2.06E-03	1.33E-03	1.04E-07	1.33E-03	7.56E-09	1.43E-03	3.74E-03
3/13/94	1.59E-03	6.24E-04	3.80E-03	7.60E-03	1.66E-03	2.09E-04	1.83E-03	8.32E-04	1.33E-03	9.54E-12	1.33E-03	5.60E-11	1.33E-03	4.50E-03
3/17/94	8.67E-03	8.18E-03	1.95E-02	1.91E-02	1.33E-03	1.50E-03	1.33E-03	2.34E-03	1.33E-03	0.00E+00	1.33E-03	0.00	1.33E-03	2.71E-04
3/19/94	2.66E-03	1.16E-02	2.41E-02	3.55E-02	1.73E-03	0.01		1.03E-04	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	8.04E-06
3/21/94	1.33E-03	1.02E-03	1.33E-03	4.31E-03		0.00	1.33E-03	4.57E-03	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	7.32E-04
3/25/94	1.33E-03	3.83E-05	1.33E-03	3.02E-03	1.33E-03	0.00	1.33E-03	6.68E-03	1.33E-03	7.59E-04	1.33E-03	5.69E-04	1.33E-03	1.40E-02
3/29/94	1.33E-03	9.45E-06	1.38E-03	1.37E-03	1.33E-03	0.00	1.45E-03	1.31E-04	1.33E-03	2.19E-03	1.33E-03	3.84E-04	1.85E-03	3.14E-03
4/14/94	5.65E-03	9.08E-03	3.11E-02	2.20E-02	1.98E-03	0.00	1.33E-03	1.78E-03	1.33E-03	0.00E+00		0.00E+00	1.33E-03	2.37E-04
6/7/94	1.46E-03	4.82E-03	5.23E-03	2.73E-02	1.33E-03	0.00	1.33E-03	2.40E-03	1.33E-03	0.00E+00		0.00E+00	1.33E-03	3.80E-04
9/21/94	7.75E-03	6.02E-06	1.22E-02	2.92E-03		0.00	6.13E-03	1.21E-10	1.04E-02	3.82E-03		1.70E-06	3.51E-02	2.25E-02
Maximum	1.24E-02	1.83E-02	5.60E-02	4.44E-02	3.63E-03	6.51E-03	6.13E-03	6.68E-03	1.04E-02	1.45E-02	1.95E-03	1.72E-03	3.51E-02	4.26E-02
Minimum	1.33E-03	1.32E-11	1.33E-03	2.91E-07	1.33E-03	0.00E+00	1.32E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	0.00E+00	1.33E-03	5.12E-08
Average	2.60E-03	4.21E-03	1.16E-02	1.47E-02	1.68E-03	1.49E-03	1.48E-03	1.45E-03	2.19E-03	1.20E-03	1.35E-03	1.95E-04	2.60E-03	1.00E-02
Std. Dev.	2.47E-03	4.89E-03	1.18E-02	1.18E-02	6.46E-04	1.77E-03	6.99E-04	1.61E-03	1.99E-03	2.39E-03	9.72E-05	4.64E-04	4.94E-03	1.17E-02
Count	50	51	50	51	46	51	50	51	47	51	48	51	49	51

Note: blanks indicate mission data or non-detect values

AI-1-6: Comparison of Total Chromium monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	4.28E-03	1.92E-02	7.14E-03	5.95E-02		8.89E-04	5.36E-03	1.09E-04		6.35E-03	3.72E-03	0.00	5.99E-03	2.73E-02
10/8/93	1.67E-04	6.10E-03	3.86E-03	1.66E-02	1.67E-04	1.25E-03	1.67E-04	1.73E-03		1.22E-03	1.67E-04	5.45E-09	1.67E-04	3.72E-03
10/12/93	1.67E-04	1.81E-02	1.67E-02	0.09	1.67E-04	4.27E-03	1.67E-04	7.33E-03		0.00	1.67E-04	0.00	1.67E-04	2.44E-03
10/16/93	1.67E-04	1.28E-05	3.52E-03	0.04	1.67E-04	0.00E+00	1.67E-04	1.76E-05	1.54E-03	0.00	1.67E-04	0.00	1.67E-04	2.53E-02
10/20/93	1.77E-03	2.77E-02	4.45E-03	7.95E-02	1.87E-03	0.00	1.87E-03	1.41E-02	1.67E-04	1.10E-03	1.67E-04	4.42E-06	1.41E-03	2.89E-02
10/24/93	5.54E-03	1.18E-02	3.50E-02	7.06E-02	2.12E-03	4.80E-03	1.33E-03	0.01	2.36E-03	0.01	1.67E-04	0.00		2.49E-02
10/28/93	5.29E-03	1.21E-02	2.02E-02	6.72E-02	1.67E-04	3.36E-03	1.67E-04	1.70E-03	1.67E-04	4.51E-03	1.67E-04	5.57E-05	1.67E-04	3.70E-03
11/1/93		2.97E-02	2.82E-02	6.84E-02	2.72E-03	3.31E-03	1.27E-03	5.47E-03	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	2.20E-03
11/5/93	1.67E-04	2.23E-02	1.51E-02	1.61E-01	1.67E-04	1.07E-02	1.67E-04	7.19E-03	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	1.15E-02
11/9/93	1.67E-04	2.33E-07	5.49E-03	0.03	1.67E-04	0.00E+00	1.67E-04	1.99E-04	3.11E-03	0.00	1.67E-04	0.00	1.67E-04	2.36E-02
11/13/93	1.67E-04	1.69E-02	1.55E-02	5.83E-02	1.67E-04	2.15E-03	1.67E-04	2.00E-03	1.67E-04	5.37E-03	1.67E-04	4.91E-07	1.67E-04	2.50E-02
11/17/93	1.67E-04	1.43E-03	2.17E-02	6.49E-02	1.67E-04	3.87E-04	1.67E-04	1.86E-04	1.67E-04	5.83E-06	1.67E-04	0.00E+00	2.21E-03	2.87E-02
11/21/93	2.75E-03	7.56E-03	2.19E-02	0.07	1.67E-04	3.68E-04	1.67E-04	1.17E-02	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	1.64E-02
11/25/93	1.67E-04	9.67E-11	1.67E-04	2.48E-02	1.67E-04	0.00E+00	1.67E-04	6.30E-07	1.67E-04	3.16E-02	1.67E-04	2.24E-03	1.67E-04	4.37E-02
11/29/93	3.28E-03	4.15E-03	8.19E-03	2.19E-02	1.91E-03	2.71E-05	1.67E-04	1.82E-03	4.41E-03	1.41E-02	1.67E-04	3.11E-05	1.67E-04	4.03E-02
12/3/93	1.67E-04	7.16E-03	1.11E-02	0.06	1.67E-04	2.94E-03	1.67E-04	6.46E-05	6.00E-02	3.13E-03	1.67E-04	3.64E-04	1.67E-04	6.60E-05
12/7/93	1.47E-03	1.08E-03	9.52E-03	2.54E-02	1.67E-04	1.15E-03	1.67E-04	5.44E-04	6.62E-03	1.04E-02	6.46E-04	6.82E-05	2.20E-03	5.28E-03
12/11/93	2.51E-03	3.62E-04	6.47E-03	3.10E-02	1.11E-03	6.39E-05	1.53E-03	6.21E-04	1.32E-03	3.27E-05	6.64E-04	3.16E-05	1.68E-03	6.91E-02
12/15/93	3.16E-03	3.38E-02	2.21E-02	1.53E-01	2.68E-03	1.14E-02	1.67E-04	1.20E-02	1.67E-04	0.00	1.67E-04	0.00	1.67E-04	2.62E-02
12/19/93	1.67E-04	1.42E-02	6.80E-03	1.13E-01	1.67E-04	4.57E-03	1.67E-04	4.74E-03	1.67E-04	0.01	1.67E-04	0.00	1.67E-04	1.32E-02
12/23/93	1.67E-04	7.08E-03	6.41E-03	1.14E-01	1.67E-04	4.60E-03	1.67E-04	6.67E-03	1.67E-04	6.55E-03	1.67E-04	0.00E+00	1.67E-04	6.66E-02
12/25/93	1.21E-03	1.25E-06	2.23E-03	9.89E-07	1.07E-03	0.00E+00	1.40E-03	1.38E-02	3.32E-03	3.01E-03	7.70E-04	1.10E-04	3.33E-03	8.63E-02
12/27/93	1.67E-04	1.38E-02	4.85E-03	5.47E-02	1.67E-04	2.72E-04	1.67E-04	5.10E-03	1.67E-04	3.56E-07	1.67E-04	9.56E-07	2.12E-03	4.34E-02
12/31/93	1.99E-03	1.31E-02	1.50E-02	7.74E-02		2.89E-03	1.67E-04	2.52E-03	1.67E-04	3.16E-03	1.67E-04	2.77E-09	1.67E-04	1.09E-02
1/4/94	2.73E-03	5.43E-03	1.10E-02	6.30E-02	1.67E-04	0.00	1.67E-04	3.53E-04	3.67E-03	1.17E-10	1.67E-04	0.00E+00	1.12E-03	6.75E-02
1/6/94	3.60E-02	2.49E-02	1.19E-01	4.59E-02	4.97E-03	1.31E-03	1.43E-03	3.77E-03	8.00E-04	0.00E+00	5.70E-04	0.00E+00	7.90E-04	6.45E-04
1/8/94	2.74E-03	1.16E-04	1.56E-02	0.05	1.67E-04	5.24E-10	1.67E-04	2.16E-04	1.67E-04	0.00	1.67E-04	0.00	4.40E-03	3.03E-02
1/12/94	1.18E-02	3.56E-02	4.35E-02	1.19E-01	3.53E-03	5.61E-03	1.67E-04	4.23E-03	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	5.18E-03
1/16/94	5.07E-03	3.57E-02	3.01E-02	8.39E-02	2.53E-03	4.66E-03	1.67E-04	3.06E-03	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	6.88E-04
1/20/94	2.86E-03	5.19E-08	1.16E-02	1.76E-02	1.67E-04	0.00E+00	2.64E-03	3.81E-03	3.45E-03	4.06E-03	1.67E-04	2.73E-03	2.57E-03	7.53E-02
1/24/94	1.89E-03	8.52E-04	7.97E-03	6.93E-02	1.67E-04	1.89E-04	1.98E-03	0.00E+00	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	1.58E-02
1/28/94	2.26E-03	1.03E-02	5.14E-03	5.92E-02	1.67E-04	3.89E-03	1.67E-04	4.28E-04	1.67E-04	5.34E-03	1.67E-04	4.02E-04	1.67E-04	2.53E-03
2/1/94	4.22E-03	5.94E-04		4.94E-02	1.67E-04	3.49E-04	2.56E-03	1.04E-03	1.67E-04	4.17E-10	1.67E-04	4.36E-08	3.98E-03	6.89E-03
2/5/94	2.80E-03	1.44E-02	6.10E-03	6.69E-02	1.67E-04	2.69E-04	1.67E-04	2.01E-03	2.18E-03	3.84E-04	1.67E-04	2.55E-03	2.07E-03	1.03E-02
2/9/94	4.91E-03	1.37E-02	1.64E-02	1.37E-01	1.67E-04	7.34E-03	1.67E-04	2.97E-04	1.67E-04	0.00	1.67E-04	0.00	1.67E-04	8.97E-06
2/13/94	1.67E-04	4.56E-04	3.82E-03	0.03	1.67E-04	1.89E-05	1.67E-04	4.22E-03	1.67E-04	0.00	1.67E-04	0.00	1.67E-04	1.53E-02
2/17/94	2.58E-03	3.03E-03	1.95E-02	7.31E-02	1.67E-04	2.24E-03	1.67E-04	3.70E-03	1.67E-04	1.42E-08	1.67E-04	4.26E-08	1.67E-04	1.73E-04
2/21/94	1.73E-03	5.11E-03	4.63E-03	1.20E-01		4.40E-03	7.04E-03	5.23E-06		0.00	1.67E-04	0.00		1.44E-07
2/25/94	2.39E-03	1.40E-02	7.15E-03	3.56E-02	1.67E-04	1.07E-03	1.67E-04	2.18E-03	1.67E-04	8.74E-04	1.67E-04	4.31E-05	1.67E-04	2.84E-02
3/1/94	3.17E-03	7.09E-03	1.11E-02	0.08	2.66E-03	2.58E-03	2.61E-03	3.67E-03	1.67E-04	0.00	1.67E-04	0.00	1.67E-04	8.22E-03
3/5/94	1.67E-04	1.23E-02	6.72E-03	1.76E-01	1.84E-03	8.12E-03	2.12E-03	8.24E-03	1.67E-04	1.06E-03	1.67E-04	5.90E-05	2.02E-03	1.87E-02
3/9/94	3.04E-03	1.91E-03	0.02	6.04E-02	1.75E-03	1.19E-03	1.93E-03	3.43E-03	1.67E-04	1.48E-07	1.67E-04	4.24E-08	1.67E-04	7.30E-03
3/13/94	2.63E-03	2.23E-03	7.55E-03	0.05	1.94E-03	4.78E-04	2.20E-03	1.83E-03	1.67E-04	3.81E-11	1.67E-04	4.34E-10	2.29E-03	7.77E-03
3/17/94	4.02E-02	2.12E-02	1.02E-01	7.21E-02	4.67E-03	2.31E-03	2.39E-03	5.38E-03	1.67E-04	0.00E+00	1.67E-04	0.00	1.67E-04	1.62E-03
3/19/94	4.22E-03	2.57E-02	2.07E-02	1.20E-01	1.67E-04	0.01		7.25E-04	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	2.80E-05
3/21/94	8.75E-03	3.89E-03	3.06E-02	4.18E-02		0.00	1.67E-04	8.97E-03	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	4.46E-03
3/25/94	2.02E-03	3.37E-04	5.35E-03	4.87E-02	1.67E-04	0.00	1.72E-03	1.47E-02	3.02E-03	2.32E-03	1.67E-04	1.14E-03	1.64E-03	2.68E-02
3/29/94	1.67E-04	4.33E-05	4.44E-03	1.57E-02	1.67E-04	0.00	1.67E-04	5.65E-04	2.70E-03	3.50E-03	1.67E-04	8.74E-04	1.67E-04	5.43E-03
4/14/94	9.95E-03	1.93E-02	4.86E-02	6.05E-02	1.67E-04	0.00	1.67E-04	4.74E-03	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	1.45E-03
6/7/94	1.67E-04	1.38E-02	5.07E-03	1.00E-01	1.67E-04	0.00	1.67E-04	5.41E-03	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	2.18E-03
9/21/94	4.17E-03	2.40E-05	1.48E-02	3.00E-02		0.00	1.67E-04	5.95E-10	1.67E-04	9.68E-03	1.67E-04	6.66E-06	5.62E-03	4.24E-02
Maximum	4.02E-02	3.57E-02	1.19E-01	1.76E-01	4.97E-03	1.14E-02	7.04E-03	1.47E-02	6.00E-02	3.16E-02	3.72E-03	2.73E-03	5.99E-03	8.63E-02
Minimum	1.67E-04	9.67E-11	1.67E-04	9.89E-07	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	0.00E+00	1.67E-04	1.44E-07
Average	3.96E-03	1.06E-02	1.74E-02	6.68E-02	9.25E-04	2.42E-03	9.38E-04	3.79E-03	2.21E-03	2.85E-03	2.75E-04	3.40E-04	1.04E-03	1.99E-02
Std. Dev.	7.50E-03	1.04E-02	2.20E-02	3.90E-02	1.27E-03	2.84E-03	1.39E-03	4.01E-03	8.73E-03	5.46E-03	5.10E-04	7.70E-04	1.48E-03	2.19E-02
Count	50	51	50	51	46	51	50	51	47	51	51	51	49	51

Note: blanks indicate mission data or non-detect values

Table AI-1-7: Comparison of Total Fluorides monitored and modeled concentrations (µg/m3)

Date	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	2.41	0.82	3.13	2.76		0.37	1.82	0.04		0.49	1.92	0.01	3.82	4.93
10/6/93	1.70	0.33	2.42	1.61		0.12	1.91	0.60		0.03	1.75	0.40	1.33	12.18
10/8/93	1.33	0.35	1.33	0.47	1.44	0.07	1.38	0.12		0.07	1.33	0.00	1.72	0.33
10/12/93	3.24	1.18	4.06	2.54	1.33	0.28	1.33	0.49		0.00	1.46	0.00	1.67	0.18
10/16/93	1.46	0.00	1.92	1.31	1.33	0.00	1.33	0.00	1.33	0.16	1.46	0.28	1.59	2.08
10/20/93	1.46	1.55	3.45	2.28	2.17	0.17	2.36	0.93	2.08	0.06	2.17	0.00	3.93	1.56
10/24/93	2.31	1.08	5.15	2.83	1.33	0.28	1.33	0.53	1.33	0.75	1.46	0.01	2.84	1.41
10/28/93	2.48	1.17	4.08	2.04	1.33	0.32	1.33	0.37	1.33	0.41	1.46	0.00	2.19	0.25
11/1/93	9.05	1.89	5.73	1.87	1.33	0.17	1.33	0.62	1.33	0.00	1.46	0.00	3.06	0.21
11/3/93	1.33	0.54	1.33	1.47	1.33	0.25	1.33	0.10	1.33	0.60	1.33	0.00	1.33	0.06
11/5/93	2.35	1.46	2.32	4.46	1.33	0.64	1.33	8.23E-01	1.33	0.00	1.46	0.00	2.19	0.54
11/9/93	1.46	0.00	1.67	2.14	1.33	0.00	1.33	0.02	1.33	0.17	1.46	0.31	2.05	1.47
11/11/93	5.00	0.43	6.69	3.17	2.12	0.17	2.67	0.68	3.33	0.07	1.83	0.19	6.52	3.66
11/13/93	2.42	1.44	3.08	2.23	1.33	0.10	1.33	2.31E-01	1.33	0.31	1.46	0.00	1.53	1.61
11/17/93	2.97	0.26	1.79	1.70	1.33	0.17	1.33	0.01	1.33	0.00	1.46	0.00	1.97	1.65
11/21/93	1.46	0.57	2.19	1.41	1.33	0.03	1.33	0.68	1.33	0.00	1.46	0.00	1.69	0.61
11/25/93	1.46	0.00	1.54	1.81	1.33	0.00	1.41	0.00	2.19	1.98	1.84	0.28	2.84	3.08
11/29/93	2.04	0.15	4.05	1.56	1.55	0.00	1.77	0.21	2.85	1.10	1.46	0.00	3.44	2.13
12/3/93	1.33	0.51	1.33	2.06	1.33	0.20	1.93	0.01	1.80	0.19	1.70	0.03	1.33	0.03
12/7/93	2.11	0.07	2.49	2.80	1.98	0.09	2.10	0.03	2.67	0.75	1.93	0.01	3.97	0.37
12/11/93	3.12	0.04	3.32	1.33	1.58	0.03	2.28	0.08	1.73	0.00	2.01	0.00	3.44	4.30
12/15/93	9.32	2.40	5.27	3.89	2.11	0.58	1.94	0.70	2.05	0.00	1.56	0.00	2.82	1.36
12/19/93	6.86	1.13	3.45	3.77	1.57	0.33	1.59	0.41	1.75	0.99	1.47	0.27	2.11	0.75
12/21/93		0.62	1.15	3.82		0.28		5.79E-01		0.00		0.00		1.21
12/23/93	7.78	0.42	5.57	3.46	1.70	0.46	3.25	0.54	1.45	0.41	1.46	0.00	4.57	4.24
12/25/93	1.37	0.00	1.33	0.00	1.33	0.00	1.38	8.40E-01	1.90	0.19	1.59	0.01	3.73	6.49
12/27/93	2.10	0.61	2.64	2.84	1.33	0.01	1.33	0.65	1.68	0.00	2.04	0.00	2.80	2.08
12/31/93	7.96	0.91	6.38	2.17	1.54	0.19	1.74	0.27	1.81	0.27	2.11	0.00	4.27	0.36
1/2/95		1.03	1.33	2.87		0.32		0.01		0.00		0.00		0.05
1/4/94	1.46	0.45	2.58	1.88	1.33	0.28	1.33	0.05	1.33	0.00	1.46	0.00	1.46	5.63
1/6/94	4.80	1.58	7.64	1.22	1.51	0.06	1.49	1.73E-01	1.33	0.00	1.33	0.00	1.60	0.14
1/8/94	1.46	0.02	3.41	0.74	1.29	0.00	1.46	0.03	1.39	0.00	1.46	0.00	1.46	4.93
1/12/94	6.55	2.00	8.09	3.74	1.33	0.54	1.33	0.39	1.33	0.00	1.53	0.00	1.61	0.36
1/16/94	9.66	2.05	11.29	2.46	1.47	0.32	1.33	0.15	1.67	0.00	1.46	0.00	1.46	0.16
1/18/94	1.33	0.49	1.33	1.12	1.33	0.15	1.33	0.00	1.33	0.67	1.33	0.02	1.33	3.42
1/20/94	2.84	0.00	3.97	1.08	1.73	0.00	2.17	0.40	3.11	0.26	1.70	0.36	3.29	4.33
1/24/94	1.80	0.03	5.02	2.10	1.87	0.01	1.68	0.00	1.82	0.00	1.46	0.00	1.46	1.15
1/28/94	2.56	0.75	1.78	3.59	1.33	0.22	1.33	0.05	1.33	0.28	1.46	0.04	1.46	0.30
2/1/94	2.37	0.08	6.29	1.00	1.33	0.04	1.33	3.05E-01	1.33	0.00	1.46	0.00	4.62	0.53
2/5/94	1.82	0.54	3.61	1.93	1.95	0.03	1.33	1.37E-01	2.23	0.09	1.70	0.36	4.22	1.01
2/9/94	10.85	1.05	4.80	4.24	2.00	0.61	1.77	0.02	1.33	0.00	1.61	0.00	2.31	0.06
2/13/94	2.02	0.03	3.31	0.63	1.33	0.00	1.33	2.33E-01	1.65	0.00	1.87	0.00	2.26	0.77
2/17/94	1.90	0.27	2.47	2.38	2.05	0.36	2.04	0.18	1.33	0.00	1.46	0.00	0.13	0.02
2/21/94	1.33	0.56	2.08	3.78	1.33	0.51	1.33	0.00	1.33	0.10	1.46	0.01	1.46	0.02
2/25/94	2.33	0.68	2.82	1.93	1.33	0.18	1.33	0.09	1.33	0.08	1.46	0.01	1.82	1.67
3/1/94	2.14	0.56	1.33	2.53	1.33	0.19	1.33	0.21	1.33	0.00	1.66	0.00	2.89	0.41
3/5/94	4.83	1.07	4.40	4.51	1.33	0.48	1.59	0.60	1.33	0.08	1.64	0.00	3.18	1.46
3/9/94	1.81	0.14	2.44	2.12	1.33	0.06	1.33	0.72	1.33	0.00	1.46	0.00	4.32	0.41
3/13/94	1.46	0.21	2.55	1.34	1.33	0.03	1.33	1.07		0.00	1.46	0.00	8.78	0.46
3/15/94	1.33	0.03	1.33	1.68	1.33	0.00	1.33	0.00	1.33	0.01	1.33	0.00	1.33	0.00
3/17/94	3.42	1.32	3.27	2.23	2.00	0.14	1.76	0.37	1.33	0.00	1.46	0.00	5.82	0.15
3/19/94	13.14	1.94	6.25	3.71	2.07	0.60	1.33	0.04	1.90	0.00	2.39	0.00	2.49	0.11
3/21/94	3.46	0.19	5.19	0.97	1.47	0.11	1.89	0.72	1.69	0.00	2.17	0.00	10.92	0.18
3/23/94	5.09	1.04	3.80	2.39	1.57	0.41	2.01	0.24	2.52	0.00	2.83	0.00	2.25	0.09
3/25/94	1.46	0.01	1.85	1.11	1.33	0.00	1.33	0.68	1.33	0.17	1.46	0.06	1.89	1.65
3/29/94	1.46	0.00	1.70	1.10	1.33	0.00	1.33	0.03	1.33	0.37	1.46	0.12	2.13	0.22
3/31/94	1.33	0.34	2.33	1.67	1.33	0.06	1.33	1.64	1.33	0.04	1.33	0.02	1.33	0.63
4/2/94	0.54	0.01	0.13	2.30		0.00		0.00		0.01	0.13	0.01	2.23	0.23
4/6/94	2.90	1.24	0.89	3.20		0.44		0.06		0.00	0.13	0.00	0.48	0.08
4/10/94	2.96	2.08	1.26	4.27		0.77		0.06		0.00	0.13	0.00	0.13	0.11
4/14/94	8.73	1.31	4.76	1.82	1.46	0.30	1.33	0.29	1.84	0.00	1.90	0.00	8.22	0.14
4/18/94	0.16	0.08	1.97	3.16		0.23		0.00		0.16	0.13	0.01	1.61	0.00
4/22/94	1.69	1.10	2.35	1.07		0.11		1.43		0.00	0.13	0.00	4.26	0.46
4/26/94	0.13	0.58	0.13	4.19		0.51		0.00		0.50	0.13	0.01	0.13	1.90
4/30/94	0.98	0.57	2.75	1.63		0.09		0.35		0.00	0.13	0.00	3.85	0.25
6/7/94	1.33	1.39	1.51	3.02	1.33	0.49	1.49	0.34	1.33	0.00	1.33	0.00	1.33	0.16
9/21/94	1.33	0.01	2.14	2.07		0.00	1.33	0.00	1.33	1.42	1.59	0.00	2.40	16.93
maximum	13.14	2.40	11.29	4.51	2.17	0.77	3.25	1.64	3.33	1.98	2.83	0.40	10.92	16.93
minimum	0.13	0.00	0.13	1.82E-04	1.29	0.00	1.33	0.00	1.33	0.00	0.13	0.00	0.13	4.72E-06
geomean	2.28	0.19	2.56	1.80	1.48	0.05	1.54	0.06	1.59	0.01	1.21	0.00	2.13	0.44
std dev.	2.80	0.64	2.05	1.07	0.27	0.20	0.40	0.36	0.49	0.37	0.54	0.10	1.96	2.79
count	65	67	67	67	55	67	58	67	53	67	65	67	65	67

Note: blank values indicate missing data or non-detect values

Table AI-1-8: Comparison of Nickel monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	3.33E-03	3.71E-03	3.33E-03	1.08E-02		1.64E-04	3.33E-03	2.25E-05		1.27E-03	3.33E-03	0.00	3.33E-03	5.53E-03
10/8/93	3.46E-03	1.24E-03	5.69E-03	3.33E-03	3.33E-03	2.58E-04	3.33E-03	3.47E-04		2.31E-04	3.33E-03	1.06E-09	3.33E-03	7.31E-04
10/12/93	3.33E-03	3.69E-03	5.20E-03	1.81E-02	3.33E-03	8.82E-04	3.81E-03	1.41E-03		0.00	3.33E-03	0.00	3.33E-03	4.56E-04
10/16/93	3.33E-03	2.49E-06	3.33E-03	6.57E-03	3.33E-03	0.00E+00	3.33E-03	3.66E-06	3.33E-03	0.00	3.33E-03	0.00	3.33E-03	5.20E-03
10/20/93	3.33E-03	5.48E-03	3.67E-03	1.48E-02	3.33E-03	0.00	3.33E-03	2.80E-03	3.33E-03	2.29E-04	3.33E-03	8.53E-07	3.33E-03	5.42E-03
10/24/93	3.61E-03	2.43E-03	7.56E-03	1.45E-02	3.33E-03	9.91E-04	3.33E-03	0.00	3.33E-03	0.00	3.33E-03	0.00		4.57E-03
10/28/93	3.33E-03	2.50E-03	3.33E-03	1.37E-02	3.33E-03	6.88E-04	3.33E-03	3.41E-04	3.33E-03	9.28E-04	3.33E-03	1.06E-05	3.33E-03	7.11E-04
11/1/93		6.04E-03	6.77E-03	1.40E-02	3.33E-03	6.75E-04	3.33E-03	1.05E-03	3.33E-03	0.00E+00	3.33E-03	0.00E+00	3.33E-03	4.06E-04
11/5/93	3.99E-03	4.51E-03	6.05E-03	3.24E-02	3.65E-03	2.19E-03	3.33E-03	1.42E-03	3.33E-03	0.00E+00	3.20E-03	0.00E+00	3.33E-03	2.14E-03
11/9/93	3.33E-03	4.54E-08	3.33E-03	4.92E-03	3.33E-03	0.00E+00	3.33E-03	4.20E-05	3.33E-03	0.00	3.33E-03	0.00	3.33E-03	4.73E-03
11/13/93	3.33E-03	3.51E-03	3.33E-03	1.22E-02	3.33E-03	4.35E-04	3.33E-03	3.97E-04	3.33E-03	1.07E-03	3.33E-03	8.84E-08	3.33E-03	5.10E-03
11/17/93	3.33E-03	2.83E-04	3.33E-03	1.15E-02	3.33E-03	7.44E-05	3.33E-03	3.77E-05	3.33E-03	1.10E-06	3.33E-03	0.00E+00	3.33E-03	5.80E-03
11/21/93	3.33E-03	1.49E-03	7.82E-03	1.20E-02	3.33E-03	6.88E-05	3.33E-03	2.35E-03	3.33E-03	0.00E+00	3.33E-03	0.00E+00	3.33E-03	2.96E-03
11/25/93	3.33E-03	1.87E-11	3.33E-03	5.03E-03	3.33E-03	0.00E+00	3.33E-03	1.33E-07	3.33E-03	6.48E-03	3.33E-03	4.56E-04	3.33E-03	9.05E-03
11/29/93	3.33E-03	8.42E-04	3.33E-03	4.09E-03	3.33E-03	5.24E-06	3.33E-03	3.75E-04	3.33E-03	2.76E-03	3.33E-03	5.90E-06	3.33E-03	8.02E-03
12/3/93	3.33E-03	1.43E-03	3.33E-03	1.14E-02	3.33E-03	6.03E-04	3.33E-03	1.18E-05	3.33E-03	6.46E-04	3.33E-03	7.54E-05	3.33E-03	1.29E-05
12/7/93	3.33E-03	1.99E-04	3.38E-03	5.19E-03	3.33E-03	2.38E-04	3.33E-03	1.07E-04	3.33E-03	1.93E-03	3.33E-03	1.34E-05	3.33E-03	1.08E-03
12/11/93	3.33E-03	7.26E-05	3.33E-03	5.40E-03	3.33E-03	1.16E-05	3.33E-03	1.32E-04	3.33E-03	6.03E-06	3.33E-03	6.06E-06	3.33E-03	1.40E-02
12/15/93	3.33E-03	6.96E-03	3.23E-03	3.25E-02	3.33E-03	2.32E-03	3.33E-03	2.34E-03	3.33E-03	0.00	3.33E-03	0.00	3.33E-03	5.26E-03
12/19/93	3.33E-03	2.86E-03	3.33E-03	2.22E-02	3.33E-03	9.27E-04	3.33E-03	9.91E-04	3.33E-03	0.00	3.33E-03	0.00	3.33E-03	2.55E-03
12/23/93	3.17E-03	1.36E-03	3.26E-03	2.13E-02	3.47E-03	9.11E-04	3.17E-03	1.36E-03	3.33E-03	1.31E-03	3.33E-03	0.00E+00	3.33E-03	1.34E-02
12/25/93	3.33E-03	2.17E-07	3.33E-03	1.71E-07	3.33E-03	0.00E+00	3.33E-03	2.73E-03	3.33E-03	5.95E-04	3.33E-03	2.13E-05	3.33E-03	1.69E-02
12/27/93	3.71E-03	2.77E-03	3.33E-03	1.04E-02	3.33E-03	5.33E-05	3.32E-03	1.03E-03	3.33E-03	6.40E-08	3.33E-03	1.79E-07	3.33E-03	8.31E-03
12/31/93	3.33E-03	2.68E-03	3.33E-03	1.47E-02		5.94E-04	3.33E-03	5.10E-04	3.33E-03	6.72E-04	3.33E-03	5.43E-10	3.33E-03	1.86E-03
1/4/94	3.33E-03	1.10E-03	3.80E-03	1.18E-02	3.33E-03	0.00	3.33E-03	7.04E-05	3.33E-03	1.97E-11	3.33E-03	0.00E+00	3.33E-03	1.40E-02
1/6/94	6.61E-03	5.08E-03	2.25E-02	9.36E-03	3.33E-03	2.61E-04	3.33E-03	6.88E-04	3.33E-03	0.00E+00	3.33E-03	0.00E+00	3.33E-03	1.28E-04
1/8/94	3.33E-03	2.43E-05	4.07E-03	7.57E-03	3.33E-03	1.01E-10	3.33E-03	4.37E-05	3.33E-03	0.00	3.33E-03	0.00	3.33E-03	6.12E-03
1/12/94	4.20E-03	7.15E-03	9.07E-03	2.33E-02	3.33E-03	1.15E-03	3.33E-03	8.31E-04	3.33E-03	0.00E+00	3.33E-03	0.00E+00	3.33E-03	1.01E-03
1/16/94	3.33E-03	7.22E-03	6.79E-03	1.67E-02	3.33E-03	9.53E-04	3.33E-03	5.67E-04	3.33E-03	0.00E+00	3.33E-03	0.00E+00	3.33E-03	1.31E-04
1/20/94	3.33E-03	8.75E-09	4.15E-03	3.12E-03	3.70E-03	0.00E+00	3.33E-03	7.84E-04	3.33E-03	8.21E-04	3.33E-03	5.56E-04	3.33E-03	1.46E-02
1/24/94	3.33E-03	1.72E-04	6.77E-03	1.22E-02	3.33E-03	3.42E-05	3.33E-03	0.00E+00	3.33E-03	0.00E+00	3.33E-03	0.00E+00	3.33E-03	3.21E-03
1/28/94	3.33E-03	2.07E-03	3.33E-03	1.25E-02	3.33E-03	7.99E-04	3.33E-03	8.55E-05	3.33E-03	9.87E-04	3.33E-03	7.85E-05	3.33E-03	5.12E-04
2/1/94	3.33E-03	1.18E-04		8.65E-03	3.33E-03	7.13E-05	3.33E-03	2.19E-04	3.33E-03	8.45E-11	3.33E-03	7.90E-09	3.68E-03	1.34E-03
2/5/94	3.28E-03	2.79E-03	3.33E-03	1.18E-02	3.33E-03	4.91E-05	3.33E-03	3.84E-04	3.33E-03	7.50E-05	3.33E-03	5.18E-04	3.33E-03	2.07E-03
2/9/94	3.33E-03	2.75E-03	5.65E-03	2.65E-02	3.57E-03	1.50E-03	3.33E-03	5.32E-05	3.33E-03	0.00	3.33E-03	0.00	3.33E-03	2.36E-06
2/13/94	3.33E-03	1.05E-04	3.33E-03	5.87E-03	3.33E-03	3.75E-06	3.33E-03	8.48E-04	3.33E-03	0.00	3.33E-03	0.00	3.33E-03	3.05E-03
2/17/94	3.33E-03	5.71E-04	5.79E-03	1.34E-02	3.33E-03	4.55E-04	3.33E-03	6.61E-04	3.65E-03	2.67E-09	3.33E-03	7.92E-09	3.33E-03	5.44E-05
2/21/94		9.93E-04		2.24E-02		8.97E-04		9.73E-07		0.00		0.00		3.92E-08
2/25/94		2.84E-03		6.89E-03		2.21E-04		3.96E-04		1.77E-04		8.49E-06		5.80E-03
3/1/94		1.43E-03		1.44E-02		5.24E-04		7.33E-04		0.00		0.00		1.58E-03
3/5/94		2.57E-03		3.48E-02		1.64E-03		1.63E-03		2.20E-04		1.13E-05		3.82E-03
3/9/94		3.88E-04		1.12E-02		2.47E-04		7.20E-04		2.62E-08		7.85E-09		1.42E-03
3/13/94		4.61E-04		8.63E-03		9.47E-05		3.91E-04		8.31E-12		7.89E-11		1.51E-03
3/17/94		4.26E-03		1.39E-02		4.70E-04		1.04E-03		0.00E+00		0.00		3.03E-04
3/19/94		5.21E-03		2.41E-02		1.74E-03		1.30E-04		0.00E+00		0.00E+00		6.92E-06
3/21/94		7.59E-04		7.35E-03		9.41E-05		1.77E-03		0.00E+00		0.00E+00		8.05E-04
3/25/94		8.28E-05		8.59E-03		1.46E-06		2.94E-03		4.47E-04		2.27E-04		5.39E-03
3/29/94		8.38E-06		2.86E-03		1.53E-11		1.12E-04		7.00E-04		1.72E-04		1.09E-03
4/14/94		3.92E-03		1.22E-02		7.05E-04		9.02E-04		0.00E+00		0.00E+00		2.70E-04
6/7/94		2.77E-03		1.92E-02		6.22E-04		1.05E-03		0.00E+00		0.00E+00		4.00E-04
9/21/94		5.30E-06		5.53E-03		2.05E-09		1.83E-10		1.88E-03		1.28E-06		8.70E-03
Maximum	6.61E-03	7.22E-03	2.25E-02	3.48E-02	3.70E-03	2.32E-03	3.81E-03	2.94E-03	3.65E-03	6.48E-03	3.33E-03	5.56E-04	3.68E-03	1.69E-02
Minimum	3.17E-03	1.87E-11	3.23E-03	1.71E-07	3.33E-03	0.00E+00	3.17E-03	0.00E+00	3.33E-03	0.00E+00	3.20E-03	0.00E+00	3.33E-03	3.92E-08
Average	3.48E-03	2.14E-03	4.94E-03	1.29E-02	3.36E-03	4.94E-04	3.34E-03	7.49E-04	3.34E-03	5.65E-04	3.33E-03	6.87E-05	3.34E-03	3.95E-03
Std. Dev.	5.71E-04	2.11E-03	3.42E-03	7.89E-03	9.18E-05	5.80E-04	8.34E-05	7.95E-04	5.56E-05	1.10E-03	2.09E-05	1.56E-04	5.76E-05	4.38E-03
Count	36	51	36	51	35	51	37	51	34	51	37	51	36	51

Note: blanks indicate mission data or non-detect values

Table AI-1-9: Comparison of Total Phosphorus monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	1.43	0.80	2.26	2.90		0.03	0.02	0.01		0.36	0.02	0.00	2.43	1.88
10/8/93	0.93	0.38	2.00	1.05	0.02	0.09	0.20	0.11		0.05	0.02	0.00	0.02	0.22
10/12/93	1.01	1.19	5.59	4.51	0.02	0.32	0.02	0.35		0.00	0.02	0.00	0.02	0.06
10/16/93	0.02	0.00	1.49	1.19	0.02	0.00	0.02	0.00	1.15	0.05	0.69	0.15	1.23	1.86
10/20/93	0.94	1.29	3.32	4.79	0.67	0.11	0.02	0.78	0.02	0.08	0.02	0.00	0.84	1.34
10/24/93	2.85	0.80	12.63	4.41	0.76	0.36	0.02	0.39	1.13	0.76	0.02	0.00		1.09
10/28/93	1.29	0.83	13.75	4.22	1.31	0.24	0.02	0.11	0.02	0.31	0.19	0.00	0.02	0.21
11/1/93		1.92	9.08	5.22	0.88	0.23	0.02	0.26	0.02	0.00	0.21	0.00	0.02	0.06
11/5/93	0.88	1.40	4.78	6.87	0.02	0.73	0.02	0.41	0.02	0.00	0.02	0.00	0.02	0.48
11/9/93	0.02	0.00	2.85	1.35	0.02	0.00	0.02	0.01	1.70	0.05	0.02	0.12	0.97	1.59
11/13/93	0.87	1.20	14.65	4.53	1.38	0.14	0.02	0.12	0.02	0.30	0.02	0.00	0.02	1.82
11/17/93	0.02	0.06	2.37	1.75	0.02	0.02	0.02	0.01	0.02	0.00	0.02	0.00	0.02	1.94
11/21/93	0.02	0.31	2.48	4.85	0.02	0.02	0.02	0.71	0.02	0.00	0.78	0.00	0.02	0.59
11/25/93	0.02	0.00	0.02	1.42	0.02	0.00	0.02	0.00	0.92	1.81	0.02	0.15	0.81	3.28
11/29/93	4.08	0.25	2.55	1.25	0.02	0.00	0.02	0.13	2.08	0.67	0.02	0.00	0.02	2.53
12/3/93	0.02	0.41	2.20	2.68	0.02	0.21	0.02	0.00	0.88	0.20	0.02	0.03	0.02	0.00
12/7/93	0.02	0.04	0.91	1.61	0.02	0.09	0.02	0.03	1.33	0.38	0.02	0.00	0.77	0.33
12/11/93	0.54	0.02	1.61	0.88	0.27	0.00	0.34	0.05	0.45	0.00	0.02	0.00	0.71	4.80
12/15/93	1.11	2.21	11.02	9.10	1.24	0.78	0.02	0.59	0.02	0.00	0.02	0.00	0.02	1.61
12/19/93	0.02	0.86	4.37	5.38	0.02	0.31	0.02	0.36	0.02	0.48	0.02	0.16	0.02	0.69
12/23/93	0.02	0.34	2.35	3.57	0.02	0.27	0.02	0.46	0.02	0.38	0.02	0.00	0.02	4.36
12/25/93	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.82	1.90	0.17	0.02	0.01	1.97	5.01
12/27/93	0.82	0.82	2.37	3.16	0.02	0.02	0.02	0.33	0.02	0.00	0.02	0.00	1.32	2.26
12/31/93	1.07	0.85	12.91	3.63		0.21	0.02	0.17	0.02	0.25	0.02	0.00	0.02	0.27
1/4/94	0.02	0.32	4.27	2.53	0.02	0.06	0.02	0.02	0.74	0.00	0.02	0.00	0.95	5.14
1/6/94	3.86	1.67	13.30	3.98	1.08	0.08	0.02	0.13	0.02	0.00	0.02	0.00	0.02	0.02
1/8/94	0.02	0.01	1.64	1.02	0.02	0.00	0.02	0.01	0.02	0.00	0.02	0.00	1.28	2.05
1/12/94	1.46	2.17	12.23	6.49	1.07	0.39	0.02	0.24	0.02	0.00	0.02	0.00	0.02	0.28
1/16/94	2.09	2.26	16.35	5.54	0.92	0.33	0.02	0.12	0.02	0.00	0.02	0.00	0.02	0.02
1/20/94	0.86	0.00	1.98	0.67	0.02	0.00	0.02	0.26	1.73	0.24	0.02	0.18	0.91	4.41
1/24/94	0.02	0.04	2.50	1.90	0.02	0.01	0.02	0.00	0.02	0.00	0.02	0.00	0.02	1.08
1/28/94	0.02	0.60	3.84	4.09	1.43	0.28	0.02	0.03	1.28	0.22	0.02	0.02	0.02	0.17
2/1/94	0.82	0.03		1.40	0.02	0.02	0.02	0.08	0.02	0.00	0.02	0.00	1.03	0.38
2/5/94	1.22	0.90	1.55	2.04	0.02	0.01	0.02	0.08	1.18	0.02	0.02	0.17	1.16	0.64
2/9/94	0.77	0.77	8.74	5.63	0.02	0.52	0.02	0.01	0.02	0.00	0.02	0.00	0.02	0.00
2/13/94	0.02	0.03	0.74	0.79	0.02	0.00	0.02	0.25	0.02	0.00	0.02	0.00	0.02	0.97
2/17/94	0.02	0.13	5.31	2.35	0.02	0.16	0.02	0.10	0.02	0.00	0.02	0.00	0.02	0.01
2/21/94	0.02	0.24	3.69	4.13		0.31	0.02	0.00		0.07	0.02	0.00		0.00
2/25/94	2.09	0.90	6.29	2.29	0.02	0.08	0.02	0.07	1.40	0.05	0.02	0.00	0.79	2.03
3/1/94	0.02	0.43	2.91	3.20	0.02	0.17	0.02	0.23	0.02	0.00	0.02	0.00	0.02	0.41
3/5/94	0.86	0.70	2.77	9.55	0.02	0.54	0.02	0.44	0.02	0.08	0.02	0.00	0.02	1.24
3/9/94	0.02	0.11	3.43	2.22	0.02	0.09	0.02	0.27	0.02	0.00		0.00	0.02	0.42
3/13/94	0.02	0.14	2.40	1.79	0.02	0.03	0.02	0.15	0.02	0.00		0.00	0.02	0.46
3/17/94	6.22	1.25	13.69	4.67	1.07	0.16	0.02	0.27	0.02	0.00		0.00	0.02	0.04
3/19/94	2.85	1.63	19.11	6.60	1.53	0.63		0.02	0.02	0.00		0.00	0.02	0.00
3/21/94	1.64	0.24	3.98	1.24		0.03	0.02	0.53	0.02	0.00		0.00	0.02	0.11
3/25/94	0.97	0.02	1.90	1.32	0.02	0.00	0.02	0.83	1.34	0.11		0.06	0.91	1.78
3/29/94	0.02	0.00	1.00	0.62	0.02	0.00	0.02	0.03	0.97	0.22		0.05	0.02	0.33
4/14/94	3.86	1.28	16.25	3.91	0.02	0.25	0.02	0.22	0.02	0.00		0.00	0.02	0.04
6/7/94	0.78	0.89	1.95	4.38	0.02	0.21	0.02	0.29	0.02	0.00		0.00	0.02	0.06
9/21/94	1.39	0.00	3.06	1.27		0.00	0.02	0.00	1.18	0.49		0.00	2.42	3.13
Maximum	6.22E+00	2.26	19.11	9.55	1.53	0.78	0.34	0.83	2.08	1.81	0.78	0.18	2.43	5.14
Minimum	1.67E-02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00
Average	9.99E-01	0.64	5.45	3.25	0.31	0.17	0.03	0.21	0.47	0.15	0.06	0.02	0.43	1.24
Std. Dev.	1.31E+00	0.66	5.10	2.17	0.50	0.20	0.05	0.23	0.65	0.30	0.16	0.05	0.65	1.46
Count	50	51	50	51	46	51	50	51	47	51	41	51	49	51

Note: blanks indicate mission data or non-detect values

Table AI-1-10: Comparison of Total Silica monitored and modeled concentrations (µg/m3)

	Site 1		Site 2		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/12/93	58.37	1.69	93.39	1.55	31.13	0.00	34.88	0.29
10/16/93	30.77	0.00	34.62	0.00	15.38	0.17	23.08	1.67
10/20/93	30.62	1.93	61.07	2.43	30.53	0.00	30.53	2.51
10/24/93	42.80	1.02	206.23	1.06	46.69	0.00	23.35	2.31
10/28/93	34.75	1.01	92.66	1.09	42.47	0.01	23.17	0.33
11/1/93	52.83	2.40	113.21	2.54	22.70	0.00	22.64	0.24
11/5/93	43.80	2.58	56.18	2.21	33.83	0.00	22.56	1.06
11/13/93	29.52	1.30	55.35	1.45		0.00	40.59	1.72
11/17/93	30.19	0.08	71.70	0.10	67.92	0.00	26.42	1.97
11/21/93	60.15	0.42	71.43	0.66	60.15	0.00	33.83	1.53
11/25/93	10.47	0.00	66.28	0.00	73.26	0.20	6.98	2.87
11/29/93	11.19	0.36		0.34		0.00	3.73	2.92
12/7/93	18.45	0.10	22.14	0.10	20.58	0.01	7.38	0.37
12/11/93	26.72	0.02	22.90	0.03	19.12	0.00	7.65	5.04
12/15/93	22.20	3.05	59.04	3.15	18.50	0.00	18.45	1.98
12/19/93	11.04	1.06	36.76	1.21	11.04	0.20	7.35	1.13
12/23/93	14.55	0.60	14.55	0.60	10.91	0.00	3.64	4.68
12/27/93	11.14	1.18	18.57	1.17	3.71	0.00	3.76	3.36
12/31/93	18.80	1.10	52.63	1.11	11.28	0.00	11.28	1.02
1/4/94	18.94	0.38	30.30	0.45	7.59	0.00	3.79	4.58
1/8/94	13.89	0.00	67.03	0.00		0.00	7.46	2.01
1/12/94	15.09	2.87	30.19	2.96	7.55	0.00	3.76	0.44
1/16/94	41.04	2.84	70.90	2.97	7.46	0.00	3.76	0.08
1/20/94	29.74	0.00	29.74	0.00	18.59	0.21	44.61	6.36
1/24/94	15.27	0.04	45.80	0.06	19.08	0.00	7.63	1.02
1/28/94	14.81	0.82	40.74	0.91	3.70	0.05	3.76	0.22
2/1/94	32.81	0.05	36.45	0.05	10.94	0.00	21.87	0.58
2/5/94	11.03	1.90		1.41	7.36	0.20	11.03	0.74
2/9/94	26.56	1.16		1.20	29.60	0.00	7.40	0.00
2/13/94	17.59	0.02		0.04	7.39	0.00	7.39	1.20
2/17/94	23.05	0.25	184.37	0.25	15.36	0.00	3.84	0.05
2/21/94	14.94	0.41	18.68	0.44		0.01	11.21	0.00
2/25/94	30.46	1.30	26.65	1.18	15.23	0.00	11.42	1.90
3/1/94	26.62	0.65	41.83	0.62	3.80	0.00	15.21	0.60
3/5/94	11.43	1.24	49.52	1.24	19.05	0.01	3.81	1.51
3/9/94	34.25	0.18	64.69	0.17	7.61	0.00		0.63
3/13/94	19.26	0.17	42.37	0.20	15.41	0.00	7.70	0.65
3/17/94	84.13	1.76	325.04	1.84	53.54	0.00	30.59	0.19
3/21/94	27.05	0.48	81.15	0.36	61.83	0.00	23.19	0.49
3/25/94	15.14	0.00	45.41	0.03	75.69	0.11	11.35	2.09
3/29/94	38.14	0.01	80.08	0.00	57.20	0.08	26.69	0.42
4/2/94	29.62	0.00		0.00	19.33	0.00	19.33	0.06
4/6/94	49.73	1.57	65.03	1.65	45.90	0.00		0.02
4/10/94	26.77	1.69	57.35	1.80	22.94	0.00	19.12	0.04
4/14/94	65.55	1.69	123.39	1.65	30.85	0.00	15.42	0.17
4/18/94	36.00	0.03		0.03	56.00	0.02	20.00	0.00
4/22/94	59.02	1.83	62.95	1.73	43.28	0.00	19.67	0.77
4/26/94	60.98	1.07	26.68	0.97	76.23	0.01	19.06	0.08
4/30/94	38.35	0.83	26.84	0.73	19.17	0.00	11.50	0.34
maximum	84.13	3.05	325.04	3.15	76.23	0.21	44.61	6.36
minimum	10.47	0.00	14.55	0.00	3.70	0.00	3.64	0.00
average	26.15	0.17	52.06	0.19	20.66	1.34E-03	12.21	0.44
std dev.	17.02	0.89	56.45	0.90	21.66	6.11E-02	10.71	1.47
count	49	49	43	49	45	49	47	49

Note: blank values indicate missing data or non-detect values

Table AI-1-11: Comparison of Lead-210 monitored and modeled concentrations (pCi/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	1.98E-02	4.04E-04	2.16E-02	8.36E-04		1.09E-05	2.18E-02	2.57E-06		2.73E-04	2.04E-02	1.42E-06	2.19E-02	3.67E-04
10/8/93	5.67E-04	1.21E-04	5.67E-04	3.64E-04	5.67E-04	2.84E-05	2.31E-03	3.79E-05		7.95E-05	5.67E-04	2.44E-10	5.67E-04	8.03E-05
10/12/93	2.89E-02	3.62E-04	3.56E-02	1.44E-03	3.62E-02	9.73E-05	3.04E-02	1.62E-04		0.00E+00	3.02E-02	0.00E+00	2.91E-02	5.92E-05
10/16/93	1.26E-02	2.06E-09	1.15E-02	1.78E-04	1.05E-02	0.00E+00	1.36E-02	1.90E-07	1.07E-02	2.69E-05	1.18E-02	4.06E-05	1.17E-02	3.26E-04
10/20/93	1.12E-02	6.34E-04	1.07E-02	1.51E-03	1.26E-02	4.39E-05	1.17E-02	2.09E-04	1.01E-02	2.99E-05	1.01E-02	1.66E-07	1.04E-02	4.76E-04
10/24/93	4.23E-02	2.47E-04	4.77E-02	1.29E-03	3.57E-02	1.10E-04	4.39E-02	1.04E-04	3.82E-02	2.04E-04	4.39E-02	6.18E-07		5.32E-04
10/28/93	2.22E-02	2.58E-04	2.62E-02	1.31E-03	2.22E-02	9.27E-05	1.92E-02	3.12E-05	2.12E-02	1.27E-04	2.01E-02	1.68E-06	2.04E-02	8.60E-05
11/1/93		6.34E-04	3.04E-02	1.67E-03	2.17E-02	9.84E-05	2.13E-02	1.16E-04	2.09E-02	0.00E+00	2.24E-02	0.00E+00	2.20E-02	5.03E-05
11/5/93		4.82E-04	1.20E-02	2.97E-03	7.86E-03	2.75E-04	1.08E-02	1.39E-04	1.12E-02	0.00E+00	1.08E-02	0.00E+00	1.21E-02	2.54E-04
11/9/93	3.34E-02	3.80E-11	3.47E-02	1.34E-04	3.39E-02	0.00E+00	3.26E-02	1.56E-06	2.68E-02	3.27E-05	3.17E-02	3.47E-05	2.98E-02	5.60E-04
11/13/93	3.55E-02	3.61E-04	3.88E-02	1.28E-03	3.89E-02	7.37E-05	3.55E-02	3.97E-05	3.47E-02	2.37E-04	3.48E-02	7.44E-09	3.67E-02	4.14E-04
11/17/93	4.78E-02	9.12E-06	5.11E-02	4.59E-04	5.24E-02	5.49E-06	5.17E-02	2.84E-06	5.05E-02	4.81E-07	4.90E-02	0.00E+00	4.75E-02	4.27E-04
11/21/93	2.02E-02	1.27E-04	2.04E-02	1.09E-03	1.83E-02	2.93E-05	2.08E-02	2.11E-04	2.01E-02	0.00E+00	2.08E-02	0.00E+00	1.74E-02	2.69E-04
11/25/93	4.03E-02	0.00E+00	3.70E-02	1.24E-04	3.89E-02	0.00E+00	3.62E-02	5.57E-09	3.24E-02	6.12E-04	3.17E-02	4.86E-05	3.60E-02	5.70E-04
11/29/93	5.38E-02	8.49E-05	5.43E-02	2.11E-04	4.61E-02	1.66E-06	4.91E-02	3.58E-05	4.69E-02	4.03E-04	5.42E-02	9.21E-07	4.24E-02	6.72E-04
12/3/93	8.97E-03	1.35E-04	1.15E-02	8.29E-04	1.38E-02	6.79E-05	9.42E-03	9.87E-07	8.84E-03	1.02E-04	9.81E-03	8.65E-06	8.82E-03	6.56E-08
12/7/93	3.21E-02	1.43E-05	3.25E-02	2.68E-04	3.36E-02	2.28E-05	3.17E-02	1.35E-05	2.61E-02	1.79E-04		3.03E-06	2.83E-02	6.59E-05
12/11/93	2.79E-02	2.19E-06	2.79E-02	1.82E-04	2.66E-02	6.17E-07	2.84E-02	1.22E-05	2.51E-02	1.09E-06	2.92E-02	8.65E-07	2.31E-02	1.33E-03
12/15/93	2.99E-02	7.36E-04	2.97E-02	4.00E-03	2.72E-02	3.27E-04	3.09E-02	3.07E-04	2.76E-02	0.00E+00	2.91E-02	0.00E+00	2.80E-02	3.69E-04
12/19/93	5.60E-02	2.55E-04	5.56E-02	1.58E-03	5.16E-02	1.06E-04	5.36E-02	9.60E-05	5.21E-02	1.70E-04	5.21E-02	4.21E-05	5.71E-02	2.65E-04
12/23/93	4.63E-02	9.72E-05	4.60E-02	1.13E-03	4.95E-02	8.30E-05	5.01E-02	1.26E-04	4.33E-02	3.06E-04	4.77E-02	0.00E+00	4.12E-02	9.46E-04
12/25/93	4.45E-02	1.25E-08	3.79E-02	6.43E-09	4.92E-02	0.00E+00	5.37E-02	2.12E-04	4.38E-02	8.46E-05	5.27E-02	3.55E-06	5.23E-02	1.28E-03
12/27/93	8.54E-02	2.92E-04	7.46E-02	6.87E-04	8.37E-02	1.36E-05	8.07E-02	8.54E-05	6.25E-02	4.22E-09	7.66E-02	2.46E-08	6.26E-02	7.18E-04
12/31/93	2.07E-02	2.57E-04	5.67E-04	1.12E-03		7.03E-05	2.40E-02	3.42E-05	1.85E-02	7.71E-05	1.81E-02	1.50E-10	1.54E-02	2.12E-04
1/4/94	1.34E-02	9.45E-05	1.37E-02	7.14E-04	1.60E-02	2.57E-05	1.33E-02	7.28E-06	1.28E-02	1.30E-11	1.55E-02	0.00E+00	1.24E-02	1.14E-03
1/6/94	3.83E-03	5.56E-04	8.89E-03	1.23E-03	2.28E-03	5.35E-05	2.75E-03	7.86E-05	2.94E-03	0.00E+00	3.42E-03	0.00E+00	2.20E-03	1.80E-05
1/8/94	1.53E-02	6.89E-07	1.54E-02	2.33E-04	1.35E-02	2.88E-12	1.28E-02	4.93E-06	1.54E-02	1.30E-06	1.75E-02	1.43E-09	1.17E-02	4.08E-04
1/12/94	4.94E-03	6.89E-04	7.83E-03	2.18E-03	9.07E-03	1.31E-04	2.10E-02	7.76E-05	5.74E-03	0.00E+00	6.61E-03	0.00E+00	5.72E-03	1.06E-04
1/16/94	1.16E-02	7.19E-04	1.55E-02	1.88E-03	1.09E-02	1.19E-04	1.16E-02	6.48E-05	1.33E-02	0.00E+00	1.44E-02	0.00E+00	1.37E-02	1.68E-05
1/20/94		3.19E-10	5.44E-02	8.89E-05	4.95E-02	0.00E+00	4.88E-02	5.74E-05	4.99E-02	1.41E-04	5.17E-02	4.52E-05	4.51E-02	1.73E-03
1/24/94	3.06E-02	4.08E-06	3.24E-02	3.73E-04	3.16E-02	1.67E-06	3.11E-02	0.00E+00	3.15E-02	0.00E+00	3.09E-02	0.00E+00	2.92E-02	1.57E-04
1/28/94	2.61E-02	1.99E-04	2.53E-02	1.10E-03	1.92E-02	9.21E-05	2.66E-02	7.34E-06	2.44E-02	1.15E-04	1.88E-02	1.56E-05	2.49E-02	6.07E-05
2/1/94	1.90E-02	1.25E-05		2.86E-04	3.32E-02	7.85E-06	2.41E-02	2.01E-05	2.32E-02	2.22E-12	3.70E-02	6.28E-10	2.78E-02	1.45E-04
2/5/94	1.17E-01	4.14E-04	5.57E-02	5.09E-04	6.90E-02	3.05E-06	7.13E-02	4.32E-05	5.72E-02	7.84E-06	5.38E-02	4.19E-05	5.46E-02	1.42E-04
2/9/94	1.43E-02	2.28E-04	1.51E-02	1.87E-03	1.39E-02	1.57E-04	1.36E-02	4.73E-06	1.09E-02	0.00E+00	1.29E-02	0.00E+00	1.31E-02	5.63E-07
2/13/94	1.15E-02	1.38E-06	1.27E-02	2.03E-04	9.89E-03	7.78E-08	1.09E-02	9.48E-05	1.11E-02	1.55E-06	1.39E-02	2.75E-08	9.12E-03	2.82E-04
2/17/94	1.45E-02	3.23E-05	1.42E-02	7.00E-04	1.49E-02	4.19E-05	1.43E-02	8.41E-05	1.45E-02	1.75E-10	1.68E-02	1.01E-09	1.53E-02	1.76E-05
2/21/94	2.85E-03	6.35E-05	9.56E-03	1.26E-03		8.53E-05	4.68E-03	6.85E-08		2.54E-05	3.29E-03	2.86E-06		8.16E-09
2/25/94	5.67E-04	2.91E-04	5.97E-03	6.47E-04	4.89E-03	2.63E-05	3.89E-03	4.51E-05	5.67E-04	2.99E-05	4.59E-03	1.28E-06	5.67E-04	4.22E-04
3/1/94	1.26E-02	1.40E-04	1.32E-02	7.70E-04	1.20E-02	5.60E-05	1.18E-02	7.58E-05	1.32E-02	2.96E-10	1.47E-02	1.74E-07	8.08E-03	9.44E-05
3/5/94	1.41E-02	2.12E-04	1.50E-02	3.00E-03	1.36E-02	2.37E-04	1.53E-02	2.51E-04	1.51E-02	2.44E-05	1.42E-02	1.86E-06	1.32E-02	3.40E-04
3/9/94	2.00E-02	3.24E-05	1.70E-02	4.84E-04	2.08E-02	2.43E-05	2.11E-02	6.95E-05	1.83E-02	1.53E-08	1.52E-02	9.45E-10	1.52E-02	1.50E-04
3/13/94	1.20E-02	4.20E-05	1.43E-02	4.18E-04	1.21E-02	1.45E-05	1.26E-02	3.62E-05	1.15E-02	1.15E-13	1.20E-02	6.68E-12	1.22E-02	1.62E-04
3/17/94	1.70E-02	4.54E-04	2.08E-02	1.40E-03		6.88E-05		1.22E-04	6.09E-03	0.00E+00	6.13E-03	0.00E+00	5.61E-03	3.75E-05
3/19/94	3.55E-03	4.99E-04	5.67E-04	2.27E-03	2.86E-03	1.93E-04		1.20E-05	2.59E-03	0.00E+00	5.67E-04	0.00E+00	4.28E-03	1.50E-06
3/21/94	1.41E-02	9.15E-05	1.56E-02	3.47E-04		8.85E-06	1.21E-02	1.96E-04	1.25E-02	0.00E+00	1.21E-02	0.00E+00	1.27E-02	9.55E-05
3/25/94	1.61E-02	3.37E-07	1.65E-02	2.87E-04	1.65E-02	5.56E-09	1.45E-02	2.72E-04	1.49E-02	6.02E-05	1.73E-02	2.77E-05	1.57E-02	4.74E-04
3/29/94	7.15E-03	1.31E-06	8.33E-03	8.02E-05	7.25E-03	1.02E-11	6.99E-03	1.36E-05	7.27E-03	1.22E-04	8.35E-03	2.09E-05	6.47E-03	9.00E-05
4/14/94	6.74E-03	3.98E-04	1.01E-02	1.27E-03	8.77E-03	8.43E-05	7.08E-03	1.06E-04	6.11E-03	0.00E+00	7.93E-03	0.00E+00	6.10E-03	3.27E-05
6/7/94	5.67E-04	2.76E-04	5.67E-04	1.28E-03	5.67E-04	6.29E-05	5.67E-04	1.12E-04	5.67E-04	0.00E+00	2.33E-03	0.00E+00	5.67E-04	5.02E-05
9/21/94	2.05E-02	7.47E-08	2.75E-02	1.53E-04		3.55E-12	2.05E-02	3.40E-13	2.67E-02	1.98E-04	2.53E-02	2.24E-07	2.80E-02	5.78E-04
maximum	1.17E-01	7.36E-04	7.46E-02	4.00E-03	8.37E-02	3.27E-04	8.07E-02	3.07E-04	6.25E-02	6.12E-04	7.66E-02	4.86E-05	6.26E-02	1.73E-03
minimum	5.67E-04	0.00E+00	5.67E-04	6.43E-09	5.67E-04	0.00E+00	5.67E-04	0.00E+00	5.67E-04	0.00E+00	5.67E-04	0.00E+00	5.67E-04	8.16E-09
average	2.40E-02	2.15E-04	2.39E-02	9.74E-04	2.45E-02	5.98E-05	2.44E-02	7.52E-05	2.21E-02	7.19E-05	2.29E-02	6.76E-06	2.14E-02	3.35E-04
std. dev.	2.19E-02	2.23E-04	1.73E-02	8.46E-04	1.89E-02	7.32E-05	1.81E-02	7.93E-05	1.60E-02	1.22E-04	1.74E-02	1.42E-05	1.60E-02	3.81E-04
count	48	51	50	51	45	51	49	51	47	51	50	51	49	51

Note: blanks indicate missing data or non-detect values

Table AI-1-12: Comparison of Polonium-210 monitored and modeled concentrations (pCi/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	1.18E-02	3.98E-03	1.28E-02	1.26E-02		3.22E-05	6.53E-03	1.10E-04		3.45E-03	4.87E-03	3.58E-04	3.41E-02	2.57E-01
10/8/93	6.30E-03	3.44E-02	4.72E-02	1.37E-03	4.66E-03	1.30E-02	3.70E-04	1.37E-02		2.00E-04	3.70E-04	2.09E-10	3.70E-04	3.06E-02
10/12/93		6.11E-02	1.32E-01	2.97E-02	1.44E-02	4.15E-02	3.70E-04	2.99E-02		0.00E+00	4.90E-03	0.00E+00	4.61E-03	8.62E-05
10/16/93	4.22E-03	4.87E-08	1.72E-02	7.02E-04	3.43E-03	0.00E+00	5.87E-03	3.19E-07	1.43E-02	2.21E-03	3.70E-04	1.57E-02	1.72E-02	2.76E-01
10/20/93	1.11E-02	2.28E-02	3.00E-02	4.33E-02	1.48E-02	5.94E-03	9.48E-03	1.03E-02	3.83E-03	1.01E-02	2.13E-03	1.52E-07	1.02E-02	1.10E-01
10/24/93	4.47E-02	6.38E-02	3.51E-01	1.30E-02	2.82E-02	4.89E-02	1.40E-02	1.87E-03	4.48E-02	1.25E-01	6.96E-03	2.12E-04		1.29E-01
10/28/93	1.15E-02	6.19E-02	2.81E-01	5.62E-02	3.09E-02	2.19E-02	3.85E-03	6.18E-03	1.13E-02	3.46E-02	3.83E-03	3.31E-05	4.02E-03	2.78E-02
11/1/93		1.81E-01	1.27E-01	3.64E-03	3.03E-02	1.99E-02	1.25E-02	2.52E-02	4.35E-03	0.00E+00	3.40E-03	0.00E+00	4.43E-03	7.56E-05
11/5/93	3.70E-04	5.03E-02	7.63E-02	5.10E-02	2.02E-02	5.51E-02	5.70E-03	3.75E-02	3.19E-03	0.00E+00	3.70E-04	0.00E+00	3.81E-03	3.61E-02
11/9/93	9.14E-03	8.98E-10	2.30E-02	5.25E-04	6.33E-03	0.00E+00	8.94E-03	3.95E-06	7.62E-02	4.21E-03	8.16E-03	1.14E-02	5.55E-02	2.30E-01
11/13/93	1.54E-02	1.23E-01	3.32E-01	1.45E-03	3.54E-02	5.45E-03	6.99E-03	1.52E-02	1.02E-02	4.37E-04	1.10E-02	1.48E-08	1.47E-02	2.01E-01
11/17/93	1.31E-02	3.74E-05	4.32E-02	8.90E-02	1.75E-02	1.65E-04	1.33E-02	3.67E-06	1.33E-02	3.82E-07	1.24E-02	0.00E+00	2.58E-02	2.35E-01
11/21/93	3.19E-02	2.03E-04	3.23E-03	1.74E-03	3.70E-04	2.39E-05	3.50E-03	3.66E-02	1.48E-02	0.00E+00	4.60E-03	0.00E+00	6.90E-03	4.35E-02
11/25/93	1.95E-02	0.00E+00	1.76E-02	4.73E-04	1.93E-02	0.00E+00	1.89E-02	1.21E-08	3.00E-02	6.06E-02	2.65E-02	1.57E-02	3.55E-02	3.79E-01
11/29/93	2.93E-02	6.69E-03	5.31E-02	5.06E-04	2.05E-02	1.34E-06	2.82E-02	4.11E-03	9.94E-02	4.73E-03	1.76E-02	1.32E-06	2.95E-02	3.38E-01
12/3/93	5.52E-03	3.58E-02	6.99E-02	6.67E-03	3.95E-03	2.54E-02	2.62E-03	2.21E-06	5.92E-03	1.10E-02	2.99E-03	3.67E-03	3.50E-03	2.98E-07
12/7/93	6.94E-03	2.83E-05	1.67E-02	6.97E-03	6.50E-03	1.35E-02	5.52E-03	1.37E-05	2.16E-02	5.25E-04	6.64E-03	2.99E-06	1.82E-02	1.03E-04
12/11/93	7.64E-03	8.62E-06	2.34E-02	1.75E-02	6.29E-03	1.70E-06	1.05E-02	3.96E-04	1.62E-02	1.24E-06	6.41E-03	4.92E-05	2.55E-02	6.60E-01
12/15/93	2.14E-02	2.13E-01	6.86E-02	4.32E-03	1.34E-02	2.31E-02	1.14E-02	2.94E-02	7.49E-03	0.00E+00	4.96E-03	0.00E+00	2.20E-02	2.13E-01
12/19/93	1.40E-02	6.87E-02	3.01E-02	2.53E-02	1.07E-02	3.33E-02	8.57E-03	3.58E-02	6.19E-03	7.14E-03	7.16E-03	1.48E-02	7.58E-03	4.34E-02
12/23/93	9.41E-03	7.13E-03	3.96E-02	4.92E-02	8.88E-03	2.22E-02	7.22E-03	3.83E-02	9.42E-03	4.37E-04	6.71E-03	0.00E+00	9.84E-03	5.47E-01
12/25/93	3.70E-02	2.57E-08	3.81E-02	2.49E-08	3.82E-02	0.00E+00	3.64E-02	1.51E-02	3.80E-02	1.21E-02	3.93E-02	1.28E-04	5.09E-02	4.62E-01
12/27/93	2.54E-02	3.80E-02	3.90E-02	1.21E-03	2.02E-02	2.39E-05	2.35E-02	9.83E-03	2.04E-02	1.21E-08	1.74E-02	2.92E-08	3.97E-02	2.32E-01
12/31/93	2.82E-02	6.03E-02	8.48E-02	2.77E-02		2.35E-02	5.07E-03	2.42E-04	4.62E-03	3.37E-02	3.81E-03	1.22E-10	3.11E-03	3.37E-04
1/4/94	8.20E-03	2.70E-02	7.65E-02	1.27E-01	3.43E-03	1.31E-03	2.67E-03	1.60E-03	8.58E-03	1.07E-11	2.55E-03	0.00E+00	1.42E-02	7.08E-01
1/6/94	1.93E-02	1.48E-01	2.96E-02	1.12E-03	5.26E-03	1.39E-03	2.45E-03	3.84E-03	2.07E-03	0.00E+00	3.70E-04	0.00E+00	3.70E-04	2.55E-05
1/8/94	5.03E-03	6.18E-06	2.02E-02	9.05E-04	3.50E-03	3.73E-12	5.35E-03	2.29E-04	8.37E-03	1.02E-05	3.00E-03	1.28E-09	2.66E-02	2.45E-01
1/12/94	2.79E-02	1.75E-01	1.51E-01	1.18E-01	9.28E-03	4.01E-02	6.53E-03	2.50E-02	3.70E-04	0.00E+00	3.70E-04	0.00E+00	3.70E-04	2.86E-02
1/16/94	3.82E-02	2.17E-01	2.30E-01	2.08E-02	1.47E-02	4.40E-02	2.65E-03	6.99E-03	1.98E-03	0.00E+00	2.33E-03	0.00E+00	2.44E-03	2.49E-05
1/20/94		1.01E-09	1.89E-02	3.61E-04	1.20E-02	0.00E+00	1.35E-02	3.51E-03	2.91E-02	1.15E-02	9.90E-03	1.79E-02	2.00E-02	5.33E-01
1/24/94	5.47E-03	1.80E-05	2.13E-02	2.68E-03	5.63E-03	5.03E-06	5.12E-03	0.00E+00	6.79E-03	0.00E+00	4.63E-03	0.00E+00	4.52E-03	1.47E-01
1/28/94	4.42E-03	3.34E-02	4.03E-02	7.62E-03	5.38E-03	3.44E-02	2.40E-03	4.84E-05	7.26E-03	4.91E-03	2.52E-03	1.04E-04	2.52E-03	1.89E-02
2/1/94	1.26E-02	6.34E-04		4.27E-02	4.30E-03	2.75E-03	3.94E-03	5.28E-03	4.17E-03	1.39E-11	2.52E-03	1.28E-09	2.23E-02	3.25E-02
2/5/94	1.88E-02	3.99E-04	3.70E-04	5.38E-03	1.16E-02	7.50E-06	1.61E-02	4.28E-03	3.43E-02	1.42E-03	2.21E-02	1.76E-02	3.27E-02	3.76E-02
2/9/94	1.41E-02	2.47E-02	1.34E-01	1.52E-01	2.07E-02	6.35E-02	7.65E-03	9.23E-06	8.59E-03	0.00E+00	6.64E-03	0.00E+00	7.18E-03	7.15E-07
2/13/94	6.24E-03	9.30E-06	7.91E-03	6.22E-04	6.18E-03	6.97E-07	3.73E-03	2.34E-02	6.50E-03	2.04E-04	4.67E-03	2.62E-08	6.93E-03	1.13E-01
2/17/94	9.29E-03	1.41E-04	6.55E-02	1.46E-01	1.35E-02	2.04E-02	6.81E-03	1.18E-04	8.00E-03	6.07E-10	9.71E-03	1.29E-09	7.53E-03	1.72E-05
2/21/94	2.69E-03	5.20E-04		2.30E-01		4.07E-02	2.38E-03	1.92E-07		6.26E-05	3.70E-04	2.75E-06		1.43E-08
2/25/94	1.55E-02	5.32E-02	2.66E-02	5.65E-02	5.04E-03	8.10E-03	2.39E-03	7.28E-04	8.55E-03	4.43E-03	2.05E-03	1.50E-04	4.24E-03	2.28E-01
3/1/94	1.61E-02	1.31E-02	4.14E-02	1.27E-01	1.21E-02	1.89E-02	6.15E-03	2.71E-02	8.26E-03	6.45E-09	5.74E-03	3.09E-07	8.27E-03	4.97E-02
3/5/94	3.70E-04	4.75E-03		3.73E-03	9.52E-03	4.40E-02	1.19E-02	3.27E-02	7.21E-03	1.08E-02	7.83E-03	4.14E-05	1.18E-02	1.21E-01
3/9/94	1.22E-02	1.08E-03	4.94E-02	1.54E-03	1.12E-02	1.13E-02	1.46E-02	2.36E-02	7.81E-03	1.25E-08	7.90E-03	1.27E-09	9.29E-03	5.04E-02
3/13/94	6.67E-03	7.26E-03	1.09E-02	3.32E-03	7.33E-03	6.35E-04	9.76E-03	7.80E-03	6.14E-03	2.71E-12	6.55E-03	1.31E-11	6.82E-03	6.36E-02
3/17/94	2.13E-02	7.13E-02	5.51E-02	8.66E-03		1.69E-02		3.06E-02	3.35E-03	0.00E+00	3.31E-03	0.00E+00	2.42E-03	5.56E-05
3/19/94	2.43E-02	1.58E-01	2.10E-01	7.33E-02	2.10E-02	8.28E-02		2.27E-05	2.10E-03	0.00E+00	3.70E-04	0.00E+00	2.00E-03	1.94E-06
3/21/94	1.22E-02	1.22E-03	2.10E-02	3.62E-02		3.80E-03	8.89E-03	5.88E-02	5.24E-03	0.00E+00	5.86E-03	0.00E+00	5.19E-03	1.47E-04
3/25/94	9.31E-03	6.31E-06	4.89E-03	8.60E-04	4.51E-03	1.31E-07	6.97E-03	4.65E-02	2.26E-02	5.37E-03	6.15E-03	2.21E-03	1.45E-02	2.12E-01
3/29/94	3.11E-03	1.19E-06	2.28E-03	3.16E-04	2.32E-03	8.36E-12	3.18E-03	1.55E-05	7.94E-03	2.80E-02	3.37E-03	4.31E-03	3.61E-03	2.12E-02
4/14/94	2.74E-02	9.91E-02	1.01E-01	5.58E-02	1.20E-02	2.28E-02	7.47E-03	2.35E-02	8.71E-03	0.00E+00	6.89E-03	0.00E+00	7.32E-03	4.94E-05
6/7/94	3.70E-04	4.23E-02	5.07E-03	2.03E-01	2.85E-03	2.03E-02	2.86E-03	2.99E-02	2.70E-03	0.00E+00	3.70E-04	0.00E+00	1.98E-03	7.45E-05
9/21/94	3.21E-02	1.76E-06	4.18E-02	5.88E-04		8.39E-11	2.34E-02	2.53E-12	3.53E-02	4.10E-02	8.72E-03	4.10E-07	1.03E-01	3.75E-01
maximum	4.47E-02	2.17E-01	3.51E-01	2.30E-01	3.82E-02	8.28E-02	3.64E-02	5.88E-02	9.94E-02	1.25E-01	3.93E-02	1.79E-02	1.03E-01	7.08E-01
minimum	3.70E-04	0.00E+00	3.70E-04	2.49E-08	3.70E-04	0.00E+00	3.70E-04	0.00E+00	3.70E-04	0.00E+00	3.70E-04	0.00E+00	3.70E-04	1.43E-08
average	1.49E-02	4.13E-02	6.92E-02	3.66E-02	1.24E-02	1.63E-02	8.74E-03	1.30E-02	1.51E-02	8.19E-03	6.66E-03	2.04E-03	1.54E-02	1.46E-01
std. dev.	1.09E-02	5.99E-02	8.32E-02	5.52E-02	9.26E-03	1.98E-02	7.29E-03	1.54E-02	1.89E-02	2.07E-02	7.13E-03	5.08E-03	1.84E-02	1.84E-01
count	48	51	48	51	45	51	49	51	47	51	51	51	49	51

Note: blanks indicate missing data or non-detect values

Table AI-1-13: Comparison of Radium-226 monitored and modeled concentrations (pCi/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	5.31E-04	2.05E-04	5.31E-04	5.56E-04		1.24E-05	5.31E-04	2.37E-06		9.11E-05	5.31E-04	8.69E-07	5.31E-04	4.15E-04
10/8/93	5.31E-04	7.87E-05	5.31E-04	1.53E-04	5.31E-04	1.94E-05	5.31E-04	2.62E-05		2.26E-05	5.31E-04	7.91E-11	5.31E-04	6.17E-05
10/12/93	5.31E-04	2.19E-04	5.31E-04	8.29E-04	5.31E-04	6.51E-05	5.31E-04	1.02E-04		0.00E+00	3.33E-03	0.00E+00	5.31E-04	3.41E-05
10/16/93	5.31E-04	4.31E-08	5.31E-04	2.90E-04	5.31E-04	0.00E+00	5.31E-04	1.61E-07	5.31E-04	1.69E-05	5.31E-04	3.07E-05	5.31E-04	3.66E-04
10/20/93	5.31E-04	3.06E-04	5.31E-04	7.93E-04	5.31E-04	2.27E-05	5.31E-04	1.41E-04	5.31E-04	1.73E-05	5.31E-04	5.96E-08	5.31E-04	3.76E-04
10/24/93	5.31E-04	1.54E-04	5.31E-04	6.18E-04	5.31E-04	7.40E-05	5.31E-04	6.63E-05	5.31E-04	1.63E-04	5.31E-04	4.39E-07		3.60E-04
10/28/93	5.31E-04	1.57E-04	5.31E-04	6.15E-04	5.31E-04	4.97E-05	5.31E-04	2.45E-05	5.31E-04	7.01E-05	5.31E-04	7.19E-07	5.31E-04	5.99E-05
11/1/93		3.93E-04	5.31E-04	6.58E-04	5.31E-04	4.81E-05	5.31E-04	8.07E-05	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	3.12E-05
11/5/93	5.31E-04	2.63E-04	8.48E-04	1.37E-03	5.31E-04	1.46E-04	5.31E-04	1.04E-04	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	1.62E-04
11/9/93	5.31E-04	7.95E-10	5.31E-04	2.17E-04	5.31E-04	0.00E+00	5.31E-04	1.89E-06	5.31E-04	1.66E-05	5.31E-04	2.60E-05	5.31E-04	3.98E-04
11/13/93	5.31E-04	2.34E-04	5.31E-04	5.37E-04	5.31E-04	2.93E-05	5.31E-04	3.13E-05	5.31E-04	7.61E-05	5.31E-04	6.46E-09	5.31E-04	3.44E-04
11/17/93	5.31E-04	2.30E-05	5.31E-04	5.76E-04	5.31E-04	5.93E-06	5.31E-04	1.75E-06	5.31E-04	1.25E-07	5.31E-04	0.00E+00	5.31E-04	3.99E-04
11/21/93	5.31E-04	7.78E-05	5.31E-04	6.30E-04	5.31E-04	7.96E-06	5.31E-04	1.35E-04	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	2.00E-04
11/25/93	5.31E-04	0.00E+00	5.31E-04	1.95E-04	5.31E-04	0.00E+00	5.31E-04	6.09E-09	5.31E-04	3.49E-04	5.31E-04	3.30E-05	5.31E-04	5.64E-04
11/29/93	5.31E-04	4.53E-05	5.31E-04	2.01E-04	5.31E-04	4.71E-07	5.31E-04	2.24E-05	5.31E-04	1.73E-04	5.31E-04	4.00E-07	5.31E-04	5.82E-04
12/3/93	5.31E-04	9.17E-05	5.31E-04	4.97E-04	5.31E-04	4.37E-05	5.31E-04	1.08E-06	5.31E-04	4.43E-05	5.31E-04	5.89E-06	5.31E-04	2.38E-07
12/7/93	5.31E-04	1.15E-05	5.31E-04	2.30E-04	5.31E-04	1.83E-05	5.31E-04	6.22E-06	5.31E-04	1.18E-04	5.31E-04	9.61E-07	5.31E-04	5.97E-05
12/11/93	5.31E-04	5.41E-06	5.31E-04	2.67E-04	5.31E-04	1.04E-06	5.31E-04	7.04E-06	5.31E-04	4.84E-07	5.31E-04	4.28E-07	5.31E-04	1.06E-03
12/15/93	5.31E-04	4.53E-04	5.31E-04	1.38E-03	5.31E-04	1.41E-04	5.31E-04	1.61E-04	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	3.43E-04
12/19/93	5.31E-04	1.81E-04	5.31E-04	9.54E-04	5.31E-04	6.70E-05	5.31E-04	6.86E-05	5.31E-04	1.32E-04	5.31E-04	3.27E-05	5.31E-04	1.79E-04
12/23/93	5.31E-04	8.02E-05	5.31E-04	9.27E-04	5.31E-04	6.13E-05	5.31E-04	8.85E-05	5.31E-04	9.50E-05	5.31E-04	0.00E+00	5.31E-04	8.88E-04
12/25/93	5.31E-04	9.97E-09	5.31E-04	8.67E-09	5.31E-04	0.00E+00	5.31E-04	1.37E-04	5.31E-04	4.23E-05	5.31E-04	1.47E-06	5.31E-04	1.14E-03
12/27/93	5.31E-04	1.59E-04	5.31E-04	4.89E-04	5.31E-04	4.13E-06	5.31E-04	6.03E-05	5.31E-04	6.37E-09	5.31E-04	1.21E-08	5.31E-04	5.64E-04
12/31/93	5.31E-04	1.66E-04	5.31E-04	6.86E-04		4.29E-05	5.31E-04	2.42E-05	5.31E-04	5.01E-05	5.31E-04	4.39E-11	5.31E-04	1.25E-04
1/4/94	5.31E-04	7.24E-05	5.31E-04	5.89E-04	5.31E-04	1.48E-05	5.31E-04	5.06E-06	5.31E-04	3.37E-12	5.31E-04	0.00E+00	5.31E-04	1.03E-03
1/6/94	5.31E-04	3.29E-04	5.31E-04	4.62E-04	5.31E-04	1.83E-05	5.31E-04	4.93E-05	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	1.06E-05
1/8/94	5.31E-04	5.26E-06	5.31E-04	3.76E-04	5.31E-04	1.98E-12	5.31E-04	2.70E-06	5.31E-04	4.15E-07	5.31E-04	4.98E-10	5.31E-04	4.35E-04
1/12/94	5.31E-04	4.49E-04	5.31E-04	1.11E-03	5.31E-04	8.23E-05	5.31E-04	6.19E-05	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	7.66E-05
1/16/94	5.31E-04	4.69E-04	5.31E-04	7.95E-04	5.31E-04	7.28E-05	5.31E-04	4.22E-05	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	1.01E-05
1/20/94		3.93E-10	5.31E-04	1.49E-04	5.31E-04	0.00E+00	5.31E-04	3.86E-05	5.31E-04	6.05E-05	5.31E-04	3.67E-05	5.31E-04	1.15E-03
1/24/94	5.31E-04	1.04E-05	5.31E-04	5.52E-04	5.31E-04	2.61E-06	5.31E-04	0.00	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	2.00E-04
1/28/94	5.31E-04	1.22E-04	5.31E-04	5.26E-04	5.31E-04	5.82E-05	5.31E-04	5.21E-06	5.31E-04	7.14E-05	5.31E-04	5.42E-06	5.31E-04	4.28E-05
2/1/94	5.31E-04	7.72E-06		4.13E-04	5.31E-04	5.39E-06	5.31E-04	1.55E-05	5.31E-04	1.15E-11	5.31E-04	5.95E-10	5.31E-04	1.10E-04
2/5/94	5.31E-04	1.61E-04	5.31E-04	5.62E-04	5.31E-04	3.28E-06	5.31E-04	3.01E-05	5.31E-04	7.35E-06	5.31E-04	3.51E-05	5.31E-04	1.29E-04
2/9/94	5.31E-04	1.58E-04	5.31E-04	1.20E-03	5.31E-04	1.10E-04	5.31E-04	4.05E-06	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	3.54E-07
2/13/94	5.31E-04	7.42E-06	5.31E-04	2.82E-04	5.31E-04	5.40E-07	5.31E-04	5.79E-05	5.31E-04	6.62E-07	5.31E-04	1.04E-08	5.31E-04	2.26E-04
2/17/94	5.31E-04	3.76E-05	5.31E-04	6.73E-04	5.31E-04	3.49E-05	5.31E-04	4.48E-05	5.31E-04	3.81E-10	5.31E-04	5.32E-10	5.31E-04	7.00E-06
2/21/94	5.31E-04	6.14E-05	5.31E-04	1.09E-03		6.77E-05	5.31E-04	1.09E-07		2.64E-05	5.31E-04	9.00E-07		8.88E-09
2/25/94	5.31E-04	1.69E-04	5.31E-04	3.69E-04	5.31E-04	1.67E-05	5.31E-04	2.80E-05	5.31E-04	1.37E-05	5.31E-04	6.31E-07	5.31E-04	3.81E-04
3/1/94	5.31E-04	8.37E-05	5.31E-04	6.95E-04	5.31E-04	3.76E-05	5.31E-04	5.38E-05	5.31E-04	5.70E-09	5.31E-04	1.31E-07	5.31E-04	9.92E-05
3/5/94	5.31E-04	1.37E-04	5.31E-04	1.50E-03	5.31E-04	1.19E-04	5.31E-04	1.23E-04	5.31E-04	1.69E-05	5.31E-04	7.75E-07	5.31E-04	2.71E-04
3/9/94	5.31E-04	2.12E-05	5.31E-04	4.89E-04	5.31E-04	1.78E-05	5.31E-04	5.23E-05	5.31E-04	4.02E-09	5.31E-04	5.34E-10	5.31E-04	1.13E-04
3/13/94	5.31E-04	2.76E-05	5.31E-04	3.75E-04	5.31E-04	6.37E-06	5.31E-04	3.14E-05	5.31E-04	2.40E-12	5.31E-04	5.54E-12	5.31E-04	1.26E-04
3/17/94	5.31E-04	2.56E-04	5.31E-04	6.87E-04		3.52E-05		7.94E-05	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	2.19E-05
3/19/94	5.31E-04	3.43E-04	5.31E-04	1.08E-03	5.31E-04	1.30E-04		9.91E-06	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	9.37E-07
3/21/94	5.31E-04	4.43E-05	5.31E-04	3.68E-04		7.23E-06	5.31E-04	1.31E-04	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	5.71E-05
3/25/94	5.31E-04	5.54E-06	5.31E-04	3.94E-04	5.31E-04	1.16E-07	5.31E-04	1.73E-04	5.31E-04	3.14E-05	5.31E-04	1.43E-05	5.31E-04	3.81E-04
3/29/94	5.31E-04	4.81E-07	5.31E-04	1.29E-04	5.31E-04	2.63E-12	5.31E-04	6.38E-06	5.31E-04	6.12E-05	5.31E-04	1.25E-05	5.31E-04	6.90E-05
4/14/94	5.31E-04	2.46E-04	5.31E-04	5.75E-04	5.31E-04	4.92E-05	5.31E-04	6.85E-05	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	1.97E-05
6/7/94	5.31E-04	1.68E-04	5.31E-04	9.37E-04		4.66E-05	5.31E-04	8.04E-05	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	3.02E-05
9/21/94	5.31E-04	1.56E-06	5.31E-04	2.47E-04		7.43E-11	5.31E-04	4.68E-13	5.31E-04	1.32E-04	5.31E-04	8.77E-08	5.31E-04	6.76E-04
maximum	5.31E-04	4.69E-04	8.48E-04	1.50E-03	5.31E-04	1.46E-04	5.31E-04	1.73E-04	5.31E-04	3.49E-04	3.33E-03	3.67E-05	5.31E-04	1.15E-03
minimum	5.31E-04	0.00E+00	5.31E-04	8.67E-09	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	0.00E+00	5.31E-04	8.88E-09
average	5.31E-04	1.31E-04	5.37E-04	5.94E-04	5.31E-04	3.52E-05	5.31E-04	4.87E-05	5.31E-04	3.72E-05	5.86E-04	4.71E-06	5.31E-04	2.82E-04
std. dev.	0.00E+00	1.33E-04	4.49E-05	3.46E-04	0.00E+00	3.99E-05	0.00E+00	4.82E-05	0.00E+00	6.43E-05	3.92E-04	1.06E-05	0.00E+00	3.15E-04
count	49	51	50	51	44	51	49	51	47	51	51	51	49	51

Note: blanks indicate missing data or non-detect values

Table AI-1-14: Comparison of Thoruim-230 monitored and modeled concentrations (pCi/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	3.50E-05	1.82E-04	3.50E-05	5.59E-04		1.35E-05	3.50E-05	2.69E-06		6.08E-05	3.50E-05	7.55E-07	3.50E-05	2.65E-04
10/8/93	3.50E-05	8.79E-05	3.50E-05	1.15E-04	3.50E-05	1.67E-05	3.50E-05	2.59E-05		1.26E-05	3.50E-05	5.45E-11	3.50E-05	5.03E-05
10/12/93	3.50E-05	2.72E-04	3.50E-05	6.67E-04	3.50E-05	5.94E-05	3.50E-05	8.38E-05		0.00E+00	3.50E-05	0.00E+00	3.50E-05	3.25E-05
10/16/93	3.50E-05	4.87E-08	3.50E-05	4.22E-04	3.50E-05	0.00E+00	3.50E-05	5.70E-07	3.50E-05	1.46E-05	3.50E-05	2.86E-05		3.13E-04
10/20/93	3.50E-05	3.13E-04	2.01E-04	5.98E-04	3.50E-05	2.23E-05	3.50E-05	1.45E-04	3.50E-05	1.51E-05	3.50E-05	4.44E-08	3.50E-05	3.25E-04
10/24/93	3.50E-05	2.28E-04	6.48E-04	8.44E-04	3.50E-05	6.43E-05	3.50E-05	9.18E-05	3.50E-05	1.45E-04	3.50E-05	3.87E-07		2.82E-04
10/28/93	3.50E-05	2.49E-04	6.36E-04	4.78E-04	3.50E-05	4.22E-05	3.50E-05	2.80E-05	3.50E-05	6.05E-05	3.50E-05	5.57E-07	3.50E-05	4.89E-05
11/1/93		4.55E-04	6.15E-04	4.78E-04	3.50E-05	3.82E-05	3.50E-05	6.83E-05	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	2.82E-05
11/5/93	3.50E-05	3.86E-04	4.19E-04	1.09E-03	3.50E-05	1.25E-04	3.50E-05	1.03E-04	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	1.60E-04
11/9/93	3.50E-05	8.98E-10	2.29E-04	7.36E-04	3.50E-05	0.00E+00	3.50E-05	9.10E-06	3.50E-05	1.33E-05	3.50E-05	2.44E-05	3.50E-05	2.90E-04
11/13/93	3.50E-05	3.25E-04		6.19E-04	3.50E-05	2.15E-05	3.50E-05	3.07E-05	3.50E-05	4.93E-05	3.50E-05	5.47E-09	3.50E-05	2.69E-04
11/17/93	3.50E-05	3.12E-05	6.04E-04	4.76E-04	3.50E-05	7.19E-06	3.50E-05	3.97E-06	3.50E-05	6.43E-08	3.50E-05	0.00E+00	3.50E-05	2.93E-04
11/21/93	7.19E-04	1.50E-04	3.50E-05	4.69E-04	3.50E-05	4.28E-06	3.50E-05	1.39E-04	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	1.76E-04
11/25/93	3.50E-05	0.00E+00	3.50E-05	7.10E-04	3.50E-05	0.00E+00	3.50E-05	2.72E-08	2.02E-04	3.36E-04	2.17E-04	3.08E-05	2.50E-04	6.07E-04
11/29/93	3.50E-05	4.13E-05	2.38E-04	6.12E-04	3.50E-05	2.70E-07	3.50E-05	3.51E-05	9.24E-04	1.52E-04	3.50E-05	3.15E-07	3.50E-05	3.87E-04
12/3/93	3.50E-05	1.23E-04	4.22E-04	4.77E-04	3.50E-05	4.13E-05	3.50E-05	9.78E-07	3.50E-05	3.62E-05	3.50E-05	5.71E-06	3.50E-05	6.48E-08
12/7/93	3.50E-05	1.72E-05	3.50E-05	1.12E-03	3.50E-05	1.91E-05	3.50E-05	7.01E-06	7.22E-04	1.21E-04	3.50E-05	6.52E-07	3.50E-05	7.83E-05
12/11/93	3.67E-04	7.29E-06	2.64E-04	2.96E-04	3.50E-05	9.80E-07	3.50E-05	1.59E-05	3.50E-05	3.65E-07	3.50E-05	3.49E-07	3.50E-05	8.43E-04
12/15/93	3.50E-05	6.22E-04		1.06E-03	3.50E-05	1.04E-04	3.50E-05	1.25E-04	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	2.50E-04
12/19/93	3.50E-05	2.61E-04		9.31E-04	3.50E-05	6.24E-05	3.50E-05	8.01E-05	3.50E-05	1.49E-04	3.50E-05	3.02E-05	3.50E-05	1.62E-04
12/23/93	3.50E-05	1.22E-04	3.50E-05	7.80E-04	3.50E-05	5.42E-05	3.50E-05	9.73E-05	3.50E-05	6.03E-05	3.50E-05	0.00E+00	3.50E-05	6.72E-04
12/25/93	3.50E-05	7.93E-09	3.50E-05	8.06E-08	3.50E-05	0.00E+00	3.50E-05	1.66E-04	3.50E-05	3.62E-05	3.50E-05	1.16E-06	3.50E-05	1.01E-03
12/27/93	3.50E-05	1.57E-04	3.50E-05	9.56E-04	3.50E-05	2.61E-06	3.50E-05	9.66E-05	3.50E-05	6.04E-09	3.50E-05	9.78E-09		3.75E-04
12/31/93	3.50E-05	2.13E-04		5.71E-04		3.73E-05	3.50E-05	5.28E-05	3.50E-05	4.23E-05	3.50E-05	2.78E-11	3.50E-05	8.25E-05
1/4/94	3.50E-05	1.04E-04	3.50E-05	4.79E-04	3.50E-05	1.45E-05	3.50E-05	5.61E-06	3.50E-05	1.19E-12	3.50E-05	0.00E+00	3.50E-05	8.29E-04
1/6/94	3.00E-04	3.77E-04	7.40E-04	3.26E-04	3.50E-05	1.25E-05	3.50E-05	3.88E-05	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	1.10E-05
1/8/94	3.50E-05	5.91E-06	2.67E-04	3.06E-04	3.50E-05	1.63E-12	3.50E-05	3.69E-06	3.50E-05	2.72E-07	3.50E-05	3.62E-10	3.50E-05	2.72E-04
1/12/94	3.50E-05	5.01E-04		8.57E-04	3.50E-05	8.30E-05	3.50E-05	5.69E-05	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	5.96E-05
1/16/94	3.50E-05	5.13E-04		5.88E-04	3.50E-05	6.68E-05	3.50E-05	3.41E-05	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	1.03E-05
1/20/94		2.98E-10	2.41E-04	4.21E-04	3.50E-05	0.00E+00	3.50E-05	8.47E-05	3.50E-05	4.77E-05	3.50E-05	3.52E-05		9.36E-04
1/24/94	3.50E-05	1.63E-05	3.50E-05	6.35E-04	3.50E-05	2.88E-06	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	1.90E-04
1/28/94	3.50E-05	1.76E-04		1.15E-03		5.13E-05	3.50E-05	8.44E-06	3.50E-05	6.20E-05	3.50E-05	3.88E-06	3.50E-05	5.01E-05
2/1/94	3.50E-05	1.11E-05		3.81E-04	3.50E-05	6.00E-06	3.50E-05	2.17E-05	3.50E-05	1.27E-11	3.50E-05	5.11E-10		9.08E-05
2/5/94		1.27E-04	3.50E-05	7.13E-04	3.50E-05	3.80E-06	3.50E-05	2.79E-05	3.50E-05	6.67E-06	3.50E-05	3.33E-05	3.50E-05	1.32E-04
2/9/94	3.50E-05	2.45E-04	3.79E-04	9.70E-04	3.50E-05	1.04E-04	3.50E-05	3.38E-06	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	3.73E-07
2/13/94	3.50E-05	1.20E-05	3.50E-05	2.29E-04	3.50E-05	6.14E-07	3.50E-05	5.33E-05	3.50E-05	5.06E-07	3.50E-05	7.92E-09	3.50E-05	1.81E-04
2/17/94	3.50E-05	5.71E-05	5.42E-04	5.81E-04	3.50E-05	3.66E-05	3.50E-05	3.20E-05	3.50E-05	3.87E-10	3.50E-05	4.31E-10	3.50E-05	6.29E-06
2/21/94	3.50E-05	1.07E-04	2.16E-04	9.12E-04		6.54E-05	3.50E-05	1.07E-07		2.51E-05	3.50E-05	6.11E-07		1.00E-08
2/25/94	3.50E-05	1.71E-04	2.16E-04	5.89E-04	3.50E-05	1.46E-05	3.50E-05	2.20E-05	3.50E-05	1.08E-05	3.50E-05	5.23E-07	3.50E-05	2.91E-04
3/1/94	3.50E-05	1.03E-04	3.22E-04	8.31E-04	3.50E-05	3.57E-05	3.50E-05	4.75E-05	3.50E-05	6.44E-09	3.50E-05	1.08E-07	3.50E-05	5.21E-05
3/5/94	3.50E-05	3.59E-04	3.39E-04	1.19E-03	3.50E-05	9.38E-05	3.50E-05	1.06E-04	3.50E-05	1.60E-05	3.50E-05	6.16E-07	3.50E-05	3.28E-04
3/9/94	3.50E-05	3.50E-05	5.57E-04	6.82E-04	3.50E-05	1.55E-05	3.50E-05	6.00E-05	3.50E-05	2.01E-09	3.50E-05	4.38E-10	3.50E-05	9.87E-05
3/13/94	3.50E-05	4.88E-05	3.50E-05	3.68E-04	3.50E-05	5.04E-06	3.50E-05	4.16E-05	3.50E-05	2.71E-12	3.50E-05	4.57E-12	3.50E-05	1.07E-04
3/17/94	8.02E-04	3.01E-04	1.50E-03	6.30E-04		2.90E-05		6.46E-05	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	2.14E-05
3/19/94	3.06E-04	4.43E-04	5.73E-04	8.38E-04	3.50E-05	1.21E-04		8.24E-06	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	9.93E-07
3/21/94	3.66E-04	4.25E-05	3.01E-04	3.01E-04		9.22E-06	3.50E-05	1.16E-04	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	5.19E-05
3/25/94	3.50E-05	7.19E-06	2.64E-04	4.25E-04	3.50E-05	1.31E-07	3.50E-05	1.45E-04	3.50E-05	2.65E-05	3.50E-05	1.23E-05	3.50E-05	3.34E-04
3/29/94	3.50E-05	3.69E-07	2.08E-04	3.26E-04	3.50E-05	8.10E-13	3.50E-05	7.65E-06	3.50E-05	5.24E-05	3.50E-05	1.10E-05	3.50E-05	5.28E-05
4/14/94	2.56E-04	2.99E-04	7.40E-04	4.39E-04	3.50E-05	4.34E-05	3.50E-05	5.55E-05	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	1.95E-05
6/7/94	3.50E-05	2.23E-04	3.50E-05	7.59E-04	3.50E-05	4.61E-05	3.50E-05	6.99E-05	3.50E-05	0.00E+00	3.50E-05	0.00E+00		2.69E-05
9/21/94	3.70E-04	1.77E-06	3.50E-05	6.67E-04		8.39E-11	3.50E-05	3.48E-11	3.50E-05	1.18E-04	3.50E-05	6.71E-08	3.50E-05	5.14E-04
maximum	8.02E-04	6.22E-04	1.50E-03	1.19E-03	3.50E-05	1.25E-04	3.50E-05	1.66E-04	9.24E-04	3.36E-04	2.17E-04	3.52E-05	2.50E-04	1.01E-03
minimum	3.50E-05	0.00E+00	3.50E-05	8.06E-08	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	0.00E+00	3.50E-05	1.00E-08
average	1.02E-04	1.67E-04	2.85E-04	6.21E-04	3.50E-05	3.13E-05	3.50E-05	4.95E-05	7.21E-05	3.28E-05	3.86E-05	4.35E-06	3.99E-05	2.29E-04
std. dev.	1.71E-04	1.63E-04	2.98E-04	2.70E-04	0.00E+00	3.46E-05	0.00E+00	4.60E-05	1.63E-04	6.04E-05	2.55E-05	9.98E-06	3.24E-05	2.55E-04
count	48	51	43	51	44	51	49	51	47	51	51	51	44	51

Note: blanks indicate missing data or non-detect values

Table AI-1-15: Comparison of Uranium-238 monitored and modeled concentrations (pCi/m3)

	Site 1		Site 2		Site 3		Site 4		Site 5		Site 6		Site 7	
Date	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled	Observed	Modeled
10/4/93	1.24E-04	1.73E-04	2.04E-04	4.90E-04		9.48E-06	9.68E-05	1.24E-06		6.49E-05	1.69E-04	6.91E-07	2.03E-04	3.33E-04
10/8/93	1.20E-04	7.78E-05	1.59E-06	1.16E-04	1.59E-06	1.68E-05	1.59E-06	2.26E-05		1.44E-05	1.59E-06	5.52E-11	1.59E-06	4.42E-05
10/12/93	7.25E-05	2.23E-04	3.21E-04	6.33E-04	1.59E-06	5.78E-05	1.59E-06	7.27E-05		0.00E+00	1.59E-06	0.00E+00	1.59E-06	1.85E-05
10/16/93	1.59E-06	0.00E+00	1.15E-04	3.08E-04	8.18E-05	0.00E+00	1.59E-06	3.71E-07	1.59E-06	1.09E-05	1.59E-06	2.70E-05	1.59E-06	3.42E-04
10/20/93	1.59E-06	2.81E-04	1.39E-04	5.72E-04	1.59E-06	2.02E-05	1.59E-06	1.28E-04	1.59E-06	1.47E-05	1.59E-06	4.25E-08	1.59E-06	2.71E-04
10/24/93	1.47E-04	1.81E-04	8.98E-04	6.99E-04	1.59E-06	6.42E-05	1.59E-06	7.16E-05	1.59E-06	1.45E-04	1.59E-06	3.50E-07		2.62E-04
10/28/93	2.32E-04	1.91E-04	8.23E-04	4.82E-04	9.26E-05	4.12E-05	1.59E-06	2.16E-05	1.59E-06	5.87E-05	1.59E-06	5.02E-07	1.59E-06	4.17E-05
11/1/93		3.96E-04	6.83E-04	4.87E-04	9.03E-05	3.88E-05	1.59E-06	5.66E-05	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	1.65E-05
11/5/93	1.59E-06	2.94E-04	4.82E-04	1.08E-03	1.59E-06	1.20E-04	1.59E-06	8.38E-05	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	1.06E-04
11/9/93	1.59E-06	0.00E+00	1.59E-06	4.82E-04	1.59E-06	0.00E+00	1.59E-06	5.68E-06	1.59E-06	1.10E-05	1.59E-06	2.25E-05	1.59E-06	3.06E-04
11/13/93	1.59E-06	2.64E-04	1.59E-06	5.32E-04	1.59E-06	2.21E-05	1.59E-06	2.55E-05	1.59E-06	5.36E-05	1.59E-06	3.33E-09	1.59E-06	2.92E-04
11/17/93	6.33E-05	1.59E-05	5.90E-04	4.45E-04	1.59E-06	4.88E-06	1.59E-06	2.77E-06	1.59E-06	7.60E-08	1.59E-06	0.00E+00	6.86E-05	3.27E-04
11/21/93	1.12E-04	1.03E-04	6.09E-04	4.35E-04	1.59E-06	4.71E-06	1.59E-06	1.25E-04	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	1.39E-04
11/25/93	1.59E-06	0.00E+00	1.59E-06	4.89E-04	1.59E-06	0.00E+00	1.59E-06	1.71E-08	1.59E-06	3.03E-04	1.59E-06	2.86E-05	1.59E-06	5.58E-04
11/29/93	7.98E-05	3.89E-05	2.41E-04	3.93E-04	1.59E-06	3.02E-07	1.59E-06	2.63E-05	1.08E-04	1.40E-04	1.59E-06	2.73E-07	1.59E-06	4.67E-04
12/3/93	1.59E-06	1.00E-04	3.69E-04	4.21E-04	1.59E-06	3.94E-05	1.59E-06	4.14E-07	2.25E-04	3.53E-05	1.59E-06	5.34E-06	1.59E-06	8.39E-09
12/7/93	1.59E-06	1.31E-05	1.82E-04	6.78E-04	1.59E-06	1.76E-05	1.59E-06	5.57E-06	1.31E-04	9.55E-05	1.59E-06	6.64E-07	7.05E-05	4.96E-05
12/11/93	6.75E-05	3.61E-06	2.06E-04	2.31E-04	1.59E-06	5.21E-07	1.59E-06	1.11E-05	1.59E-06	2.91E-07	1.59E-06	3.03E-07	1.59E-06	8.69E-04
12/15/93	1.25E-04	5.06E-04	5.51E-04	1.07E-03	7.19E-05	1.08E-04	1.59E-06	1.14E-04	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	2.85E-04
12/19/93	1.59E-06	2.06E-04	1.48E-04	8.56E-04	1.59E-06	5.78E-05	1.59E-06	6.91E-05	1.59E-06	1.18E-04	1.59E-06	2.87E-05	1.59E-06	1.33E-04
12/23/93	1.59E-06	8.99E-05	1.17E-04	7.41E-04	1.59E-06	4.89E-05	1.59E-06	8.44E-05	1.59E-06	6.61E-05	1.59E-06	0.00E+00	1.59E-06	7.80E-04
12/25/93	1.59E-06	7.09E-09	1.59E-06	3.74E-08	1.59E-06	0.00E+00	1.59E-06	1.40E-04	1.59E-06	3.46E-05	1.59E-06	1.08E-06	1.59E-06	1.01E-03
12/27/93	1.59E-06	1.44E-04	9.23E-05	6.63E-04	1.59E-06	2.80E-06	1.59E-06	6.99E-05	1.59E-06	2.21E-09	1.59E-06	8.00E-09	7.44E-05	4.29E-04
12/31/93	1.23E-04	1.74E-04	4.44E-04	5.28E-04		3.65E-05	1.59E-06	3.55E-05	1.59E-06	4.26E-05	1.59E-06	2.97E-11	1.59E-06	8.08E-05
1/4/94	6.58E-05	7.97E-05	2.11E-04	4.59E-04	1.59E-06	1.18E-05	1.59E-06	4.35E-06	1.59E-06	1.92E-12	1.59E-06	0.00E+00	1.59E-06	9.08E-04
1/6/94	1.59E-06	3.27E-04	3.32E-04	3.34E-04	1.59E-06	1.31E-05	1.59E-06	2.94E-05	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	5.02E-06
1/8/94	1.59E-06	1.50E-07	3.63E-04	2.49E-04	1.59E-06	4.17E-13	1.59E-06	2.87E-06	1.59E-06	2.82E-07	1.59E-06	3.53E-10	9.09E-05	3.62E-04
1/12/94	1.52E-04	4.40E-04	5.03E-04	8.62E-04	1.59E-06	7.58E-05	1.59E-06	4.74E-05	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	5.32E-05
1/16/94	1.61E-04	4.57E-04	7.51E-04	5.95E-04	1.59E-06	6.45E-05	1.59E-06	2.61E-05	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	5.16E-06
1/20/94		2.70E-10	3.23E-04	2.54E-04	1.59E-06	0.00E+00	1.59E-06	5.98E-05	7.52E-05	4.43E-05	1.59E-06	3.31E-05	1.59E-06	8.64E-04
1/24/94	1.59E-06	9.61E-06	4.26E-04	4.94E-04	1.59E-06	1.40E-06	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	2.01E-04
1/28/94	1.59E-06	1.40E-04	2.01E-04	8.43E-04	1.59E-06	5.05E-05	1.59E-06	5.45E-06	1.59E-06	4.64E-05	1.59E-06	3.81E-06	1.59E-06	3.49E-05
2/1/94	1.09E-04	8.80E-06		3.10E-04	1.59E-06	5.26E-06	1.59E-06	1.70E-05	1.59E-06	2.50E-13	1.59E-06	2.97E-10	1.17E-04	6.98E-05
2/5/94	8.21E-05	1.20E-04	1.62E-04	5.38E-04	1.59E-06	2.49E-06	1.59E-06	1.89E-05	7.55E-05	3.71E-06	1.59E-06	3.14E-05	1.59E-06	1.14E-04
2/9/94	7.50E-05	1.84E-04	4.17E-04	9.52E-04	1.59E-06	9.72E-05	1.59E-06	1.99E-06	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	9.50E-08
2/13/94	1.59E-06	4.76E-06	1.27E-04	1.98E-04	1.59E-06	6.54E-08	1.59E-06	4.92E-05	1.59E-06	4.99E-07	1.59E-06	7.38E-09	1.59E-06	1.73E-04
2/17/94	1.59E-06	3.78E-05	4.30E-04	5.42E-04	1.59E-06	3.25E-05	1.59E-06	2.71E-05	1.59E-06	7.62E-11	1.59E-06	3.42E-10	1.59E-06	2.64E-06
2/21/94	7.98E-05	7.44E-05	9.61E-05	8.68E-04		5.99E-05	1.59E-06	2.89E-08		1.67E-05	1.59E-06	6.24E-07		1.24E-09
2/25/94	1.59E-06	1.56E-04	1.77E-04	4.42E-04	1.59E-06	1.40E-05	1.59E-06	1.63E-05	1.59E-06	1.05E-05	1.59E-06	4.78E-07	1.59E-06	3.27E-04
3/1/94	1.09E-04	8.36E-05	3.05E-04	7.04E-04	1.59E-06	3.27E-05	1.59E-06	4.35E-05	1.59E-06	3.59E-12	1.59E-06	7.37E-08	1.59E-06	8.14E-05
3/5/94	1.59E-06	2.27E-04	1.49E-04	1.16E-03	1.59E-06	9.20E-05	1.59E-06	9.42E-05	1.59E-06	1.52E-05	1.59E-06	5.60E-07	1.59E-06	2.29E-04
3/9/94	1.59E-06	2.49E-05	6.88E-04	5.47E-04	1.59E-06	1.51E-05	1.59E-06	5.16E-05	1.59E-06	2.24E-09	1.59E-06	3.35E-10	1.59E-06	8.39E-05
3/13/94	8.08E-05	3.49E-05	2.31E-04	3.16E-04	1.59E-06	4.50E-06	1.59E-06	3.18E-05	1.59E-06	0.00E+00	1.59E-06	2.87E-12	1.59E-06	9.13E-05
3/17/94	1.06E-03	2.54E-04	2.51E-03	5.63E-04		2.91E-05		5.70E-05	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	1.20E-05
3/19/94	2.81E-04	3.69E-04	6.09E-04	8.43E-04	1.08E-04	1.17E-04		4.90E-06	1.59E-06	0.00E+00	2.09E-04	0.00E+00	1.59E-06	2.75E-07
3/21/94	2.82E-04	3.53E-05	6.62E-04	2.67E-04		7.58E-06	9.64E-05	1.05E-04	7.45E-05	0.00E+00	1.59E-06	0.00E+00	1.59E-06	3.28E-05
3/25/94	8.33E-05	1.08E-06	2.48E-04	3.44E-04	1.59E-06	0.00E+00	6.63E-05	1.42E-04	1.30E-04	2.30E-05	1.59E-06	1.12E-05	8.68E-05	3.06E-04
3/29/94	1.59E-06	3.60E-07	1.66E-04	2.12E-04	1.59E-06	1.50E-12	7.93E-05	6.01E-06	1.15E-04	4.94E-05	1.59E-06	9.93E-06	1.59E-06	5.15E-05
4/14/94	2.27E-04	2.55E-04	1.04E-03	4.45E-04	1.59E-06	4.21E-05	1.59E-06	4.78E-05	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	1.07E-05
6/7/94	1.23E-04	1.79E-04	1.15E-04	7.45E-04	1.59E-06	4.05E-05	1.59E-06	5.99E-05	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	1.64E-05
9/21/94	1.78E-04	3.56E-09	5.63E-04	4.34E-04		0.00E+00	9.78E-05	1.49E-11	1.73E-04	1.08E-04	1.17E-04	6.13E-08	2.15E-04	5.60E-04
maximum	1.06E-03	5.06E-04	2.51E-03	1.16E-03	1.08E-04	1.20E-04	9.78E-05	1.42E-04	2.25E-04	3.03E-04	2.09E-04	3.31E-05	2.15E-04	1.01E-03
minimum	1.59E-06	0.00E+00	1.59E-06	3.74E-08	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	0.00E+00	1.59E-06	1.24E-09
average	9.09E-05	1.37E-04	3.80E-04	5.36E-04	1.13E-05	2.98E-05	1.03E-05	4.16E-05	2.48E-05	2.99E-05	1.12E-05	4.06E-06	2.02E-05	2.31E-04
std. dev.	1.62E-04	1.38E-04	3.98E-04	2.53E-04	2.80E-05	3.36E-05	2.65E-05	4.08E-05	5.26E-05	5.46E-05	3.99E-05	9.35E-06	4.84E-05	2.68E-04
count	49	51	50	51	45	51	49	51	47	51	51	51	49	51

Note: blanks indicate missing data or non-detect values

Appendix AI-2
Model Performance Scatter Plots

This appendix contains scatter plots of all constituents evaluated by atmospheric dispersion modeling where ambient air quality data was available for evaluation of model performance. The plots show observed (actual monitored values) on the x-axis and predicted (model based values) on the y-axis. Two dashed lines shown on each figure shows the approximate limit of the factor of 2 domain. Values located between these two lines fall within the factor of 2 domain. The data presented in these figures has been paired in space but unpaired in time. The order of data presentation in this appendix is individual site results for Sites 1 through 7 for PM_{10}, TSP, As, Be, Cd, Cr, Total F, Ni, P, Pb-210, Po-210, Th-230, U-234, U-235, and U-238.

Figure AI-2-1
24-hour PM10 for Site 1 Oct. 1, 1993 to September 30, 1994

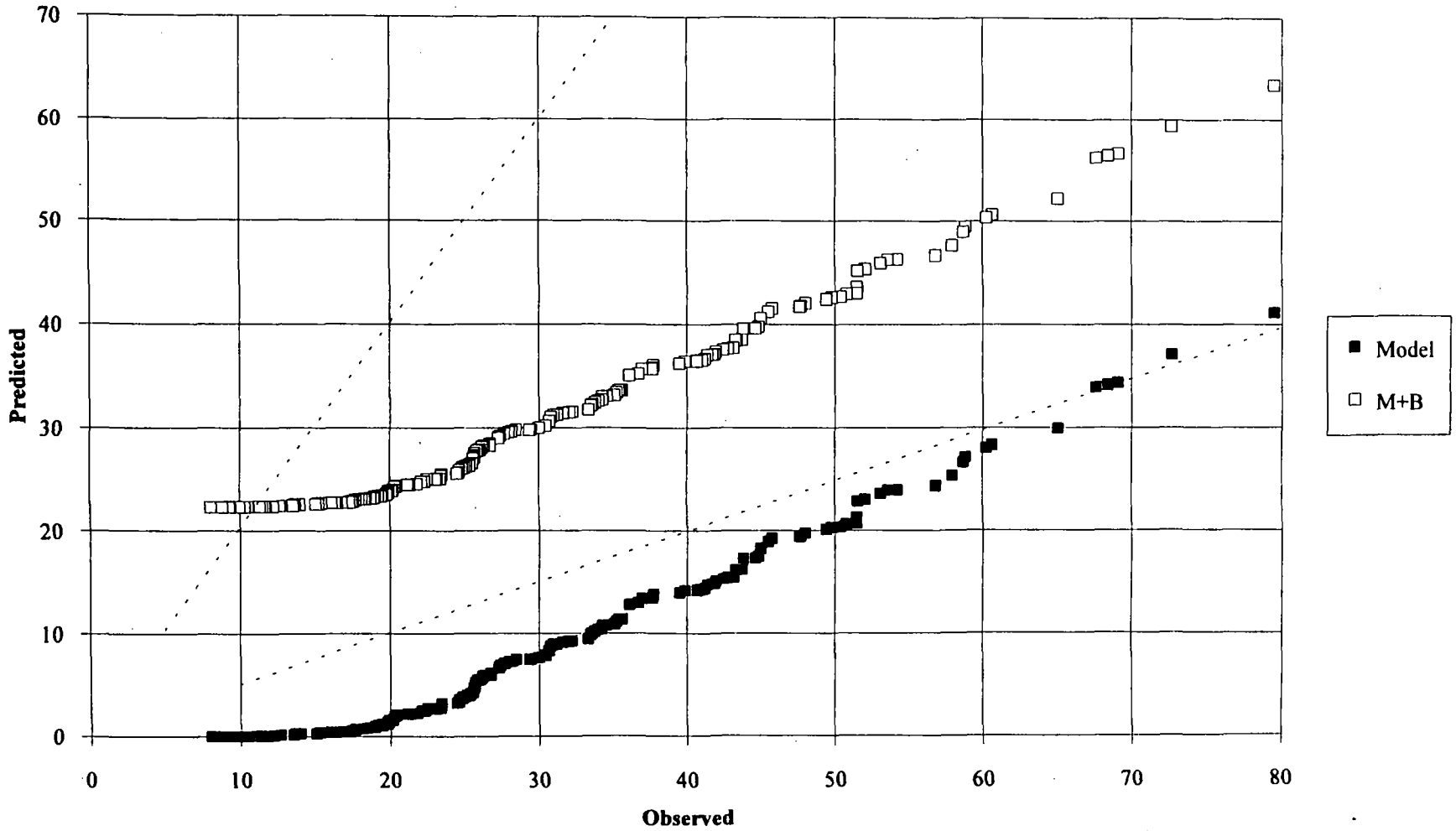

Figure AI-2-2
24-hour PM10 for Site 2 Oct. 1, 1993 to September 30, 1994

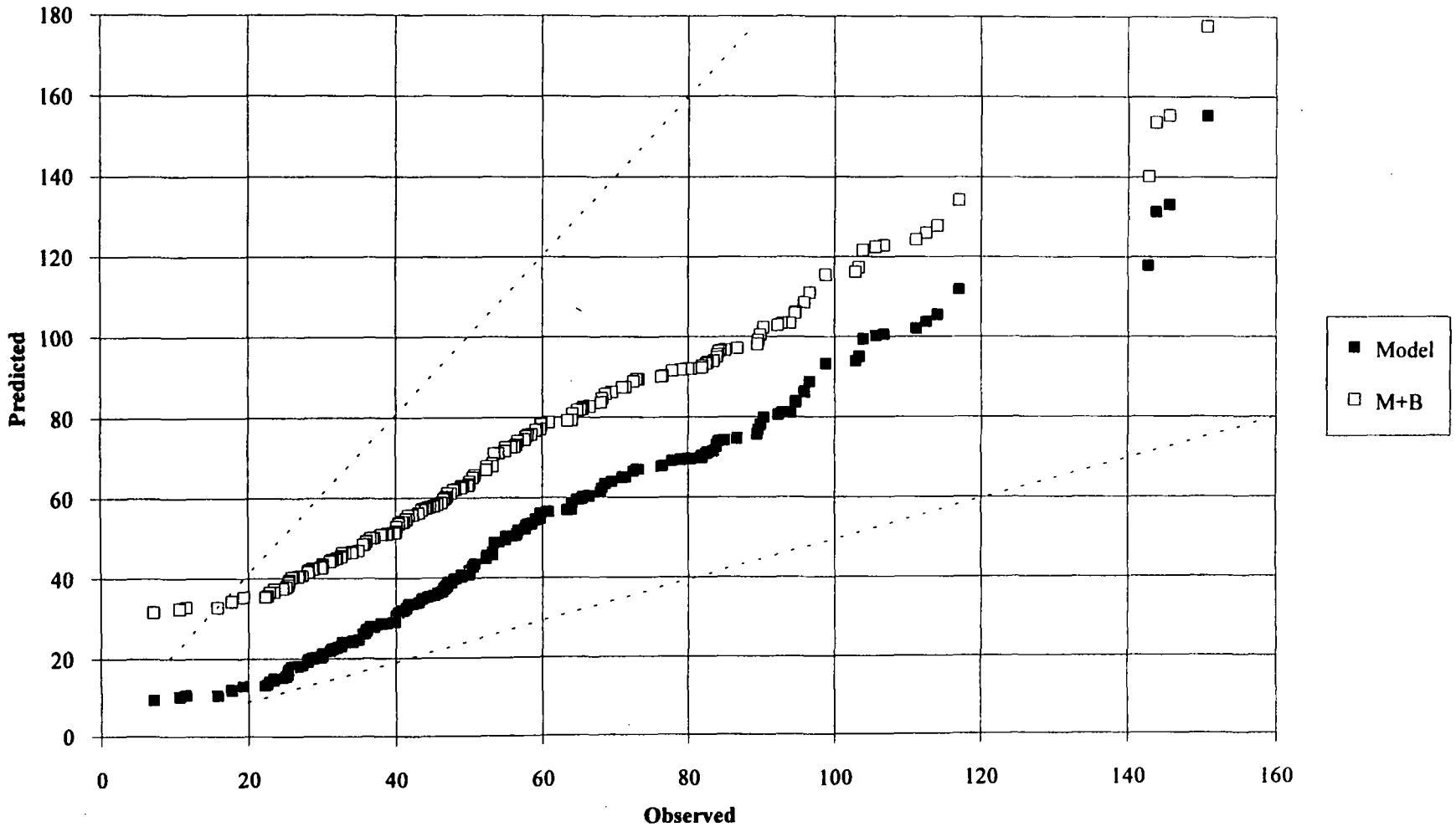

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Figure AI-2-3
24-hour PM10 for Site 3 Oct. 1, 1993 to September 30, 1994

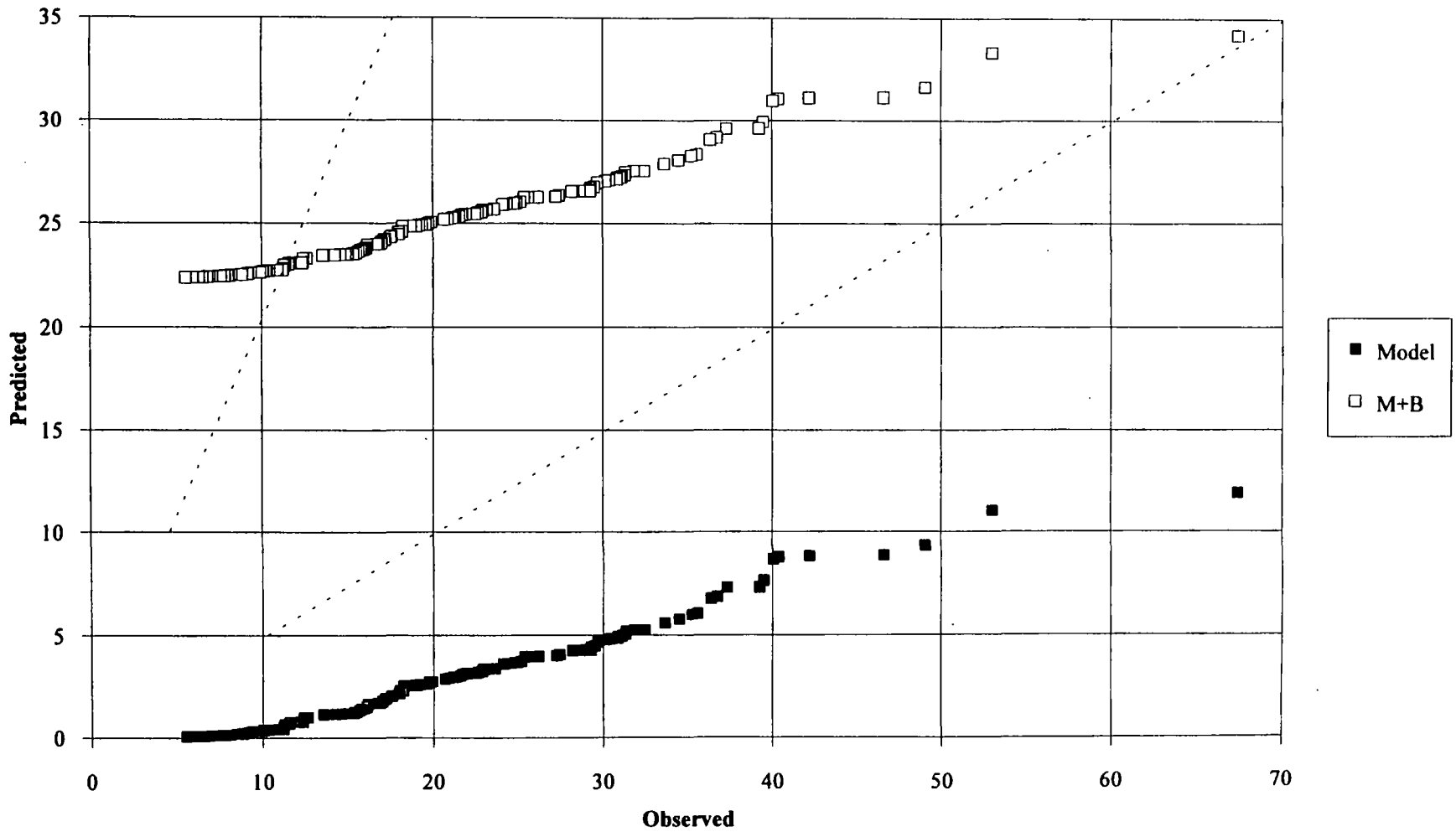

Figure AI-2-4
24-hour PM10 for Site 4 Oct. 1, 1993 to September 30, 1994

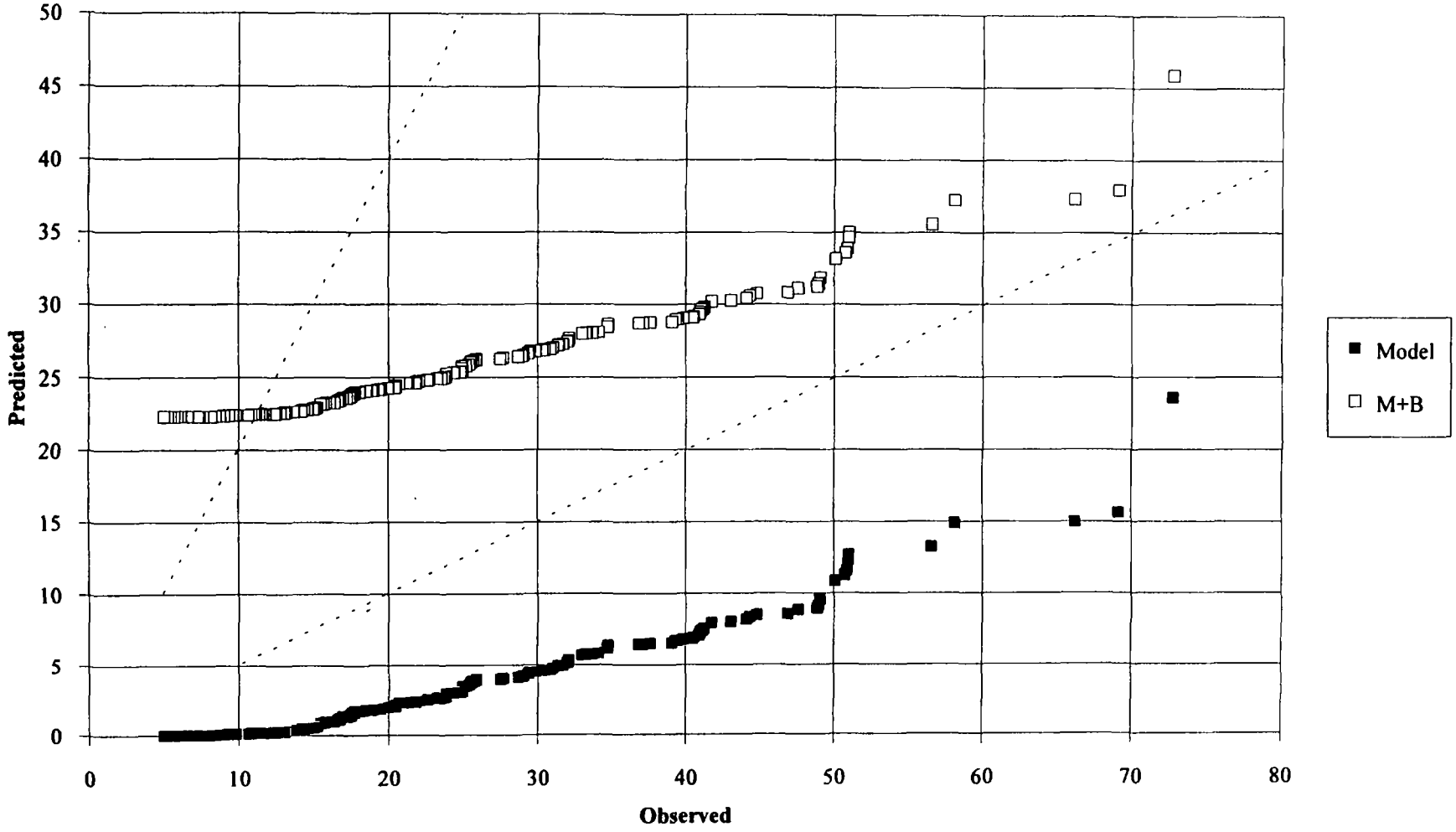

Figure AI-2-5
24-hour PM10 for Site 5 Oct. 1, 1993 to September 30, 1994

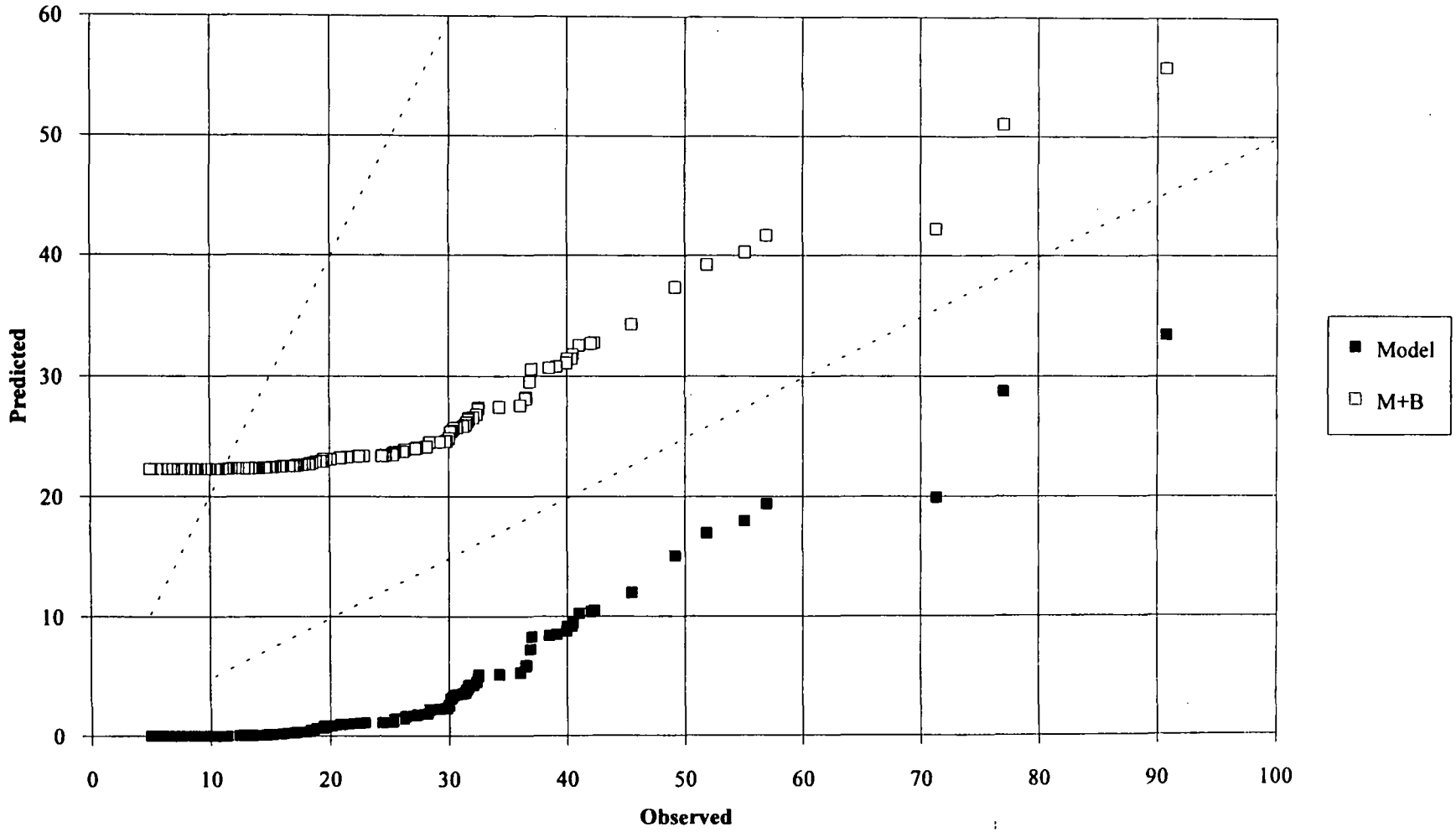

Figure AI-2-6
24-hour PM10 for Site 6 Oct. 1, 1993 to September 30, 1994

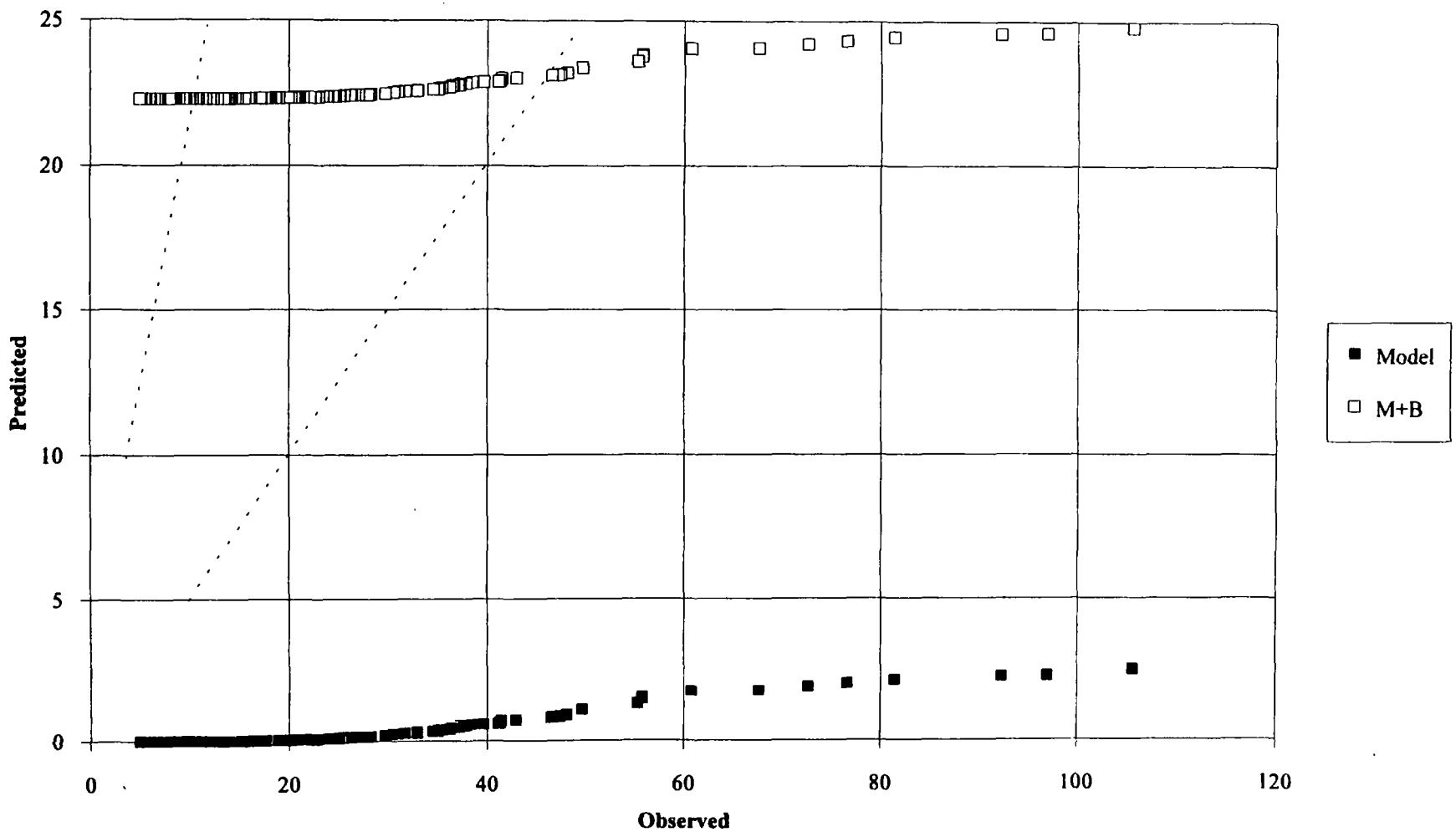

Figure AI-2-7
24-hour PM10 for Site 7 Oct. 1, 1993 to September 30, 1994

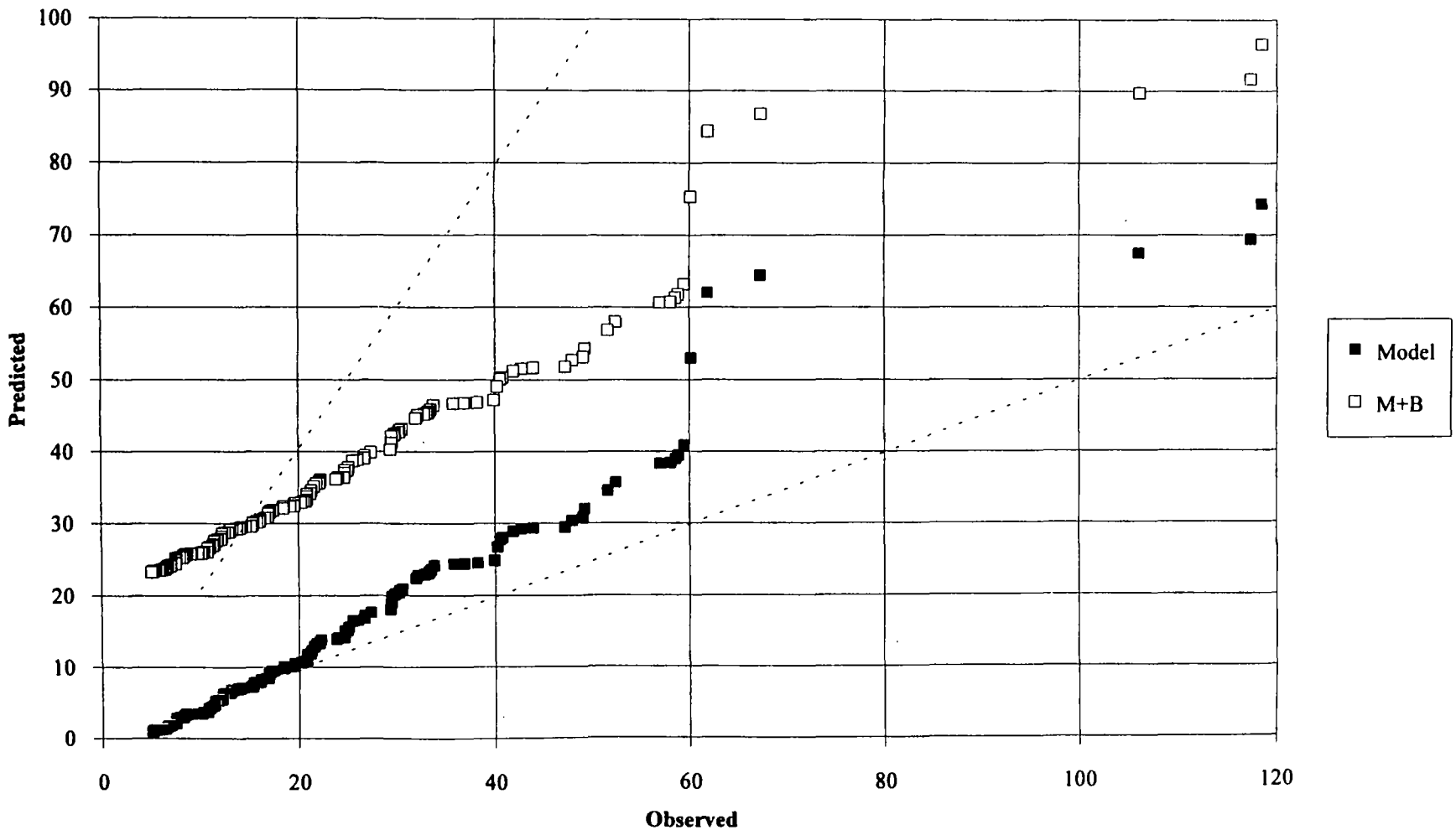

Figure AI-2-8
24-hour TSP for Site 1 Oct. 1, 1993 to September 30, 1994

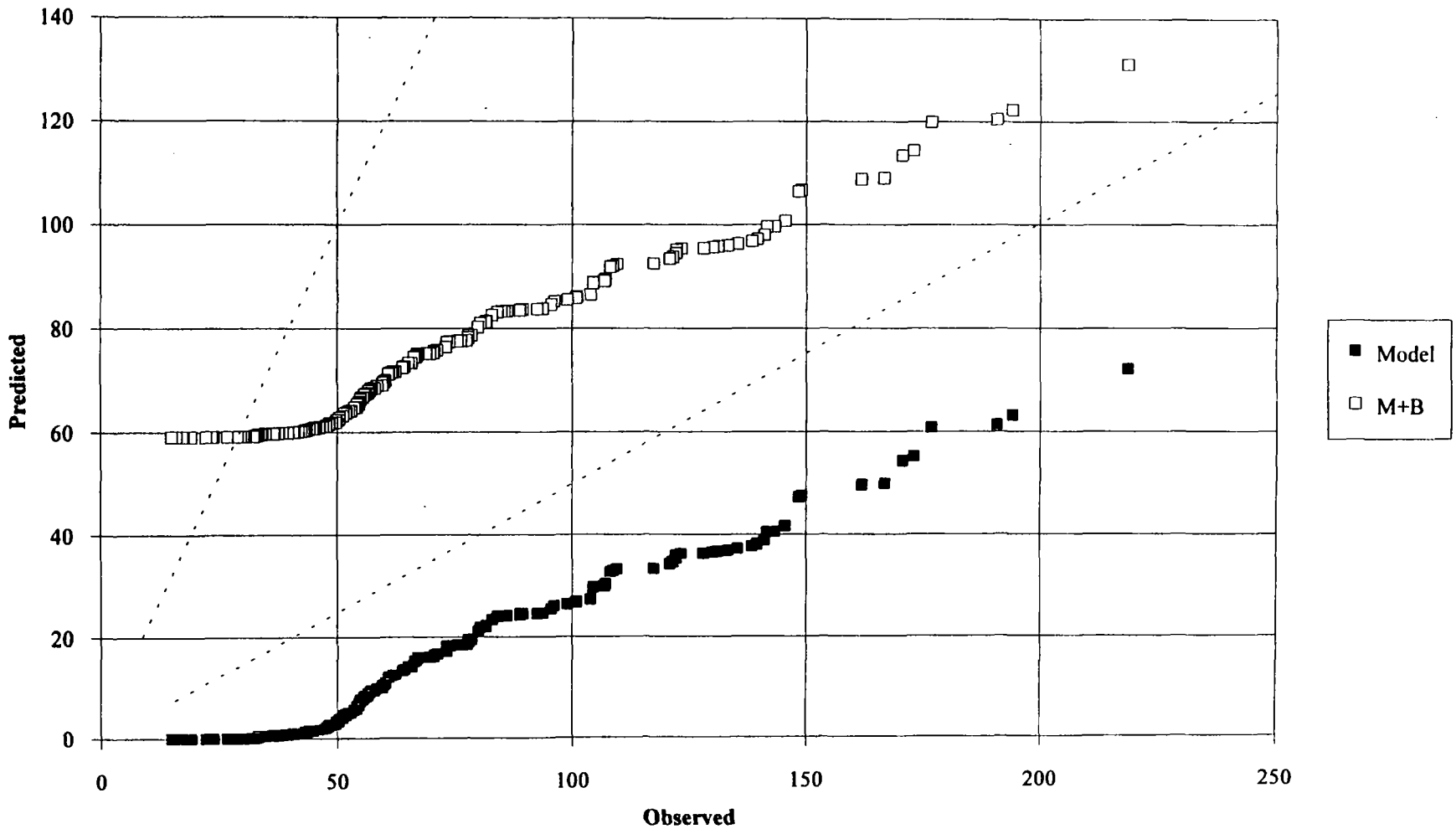

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Figure AI-2-9
24-hour TSP for Site 2 Oct. 1, 1993 to September 30, 1994

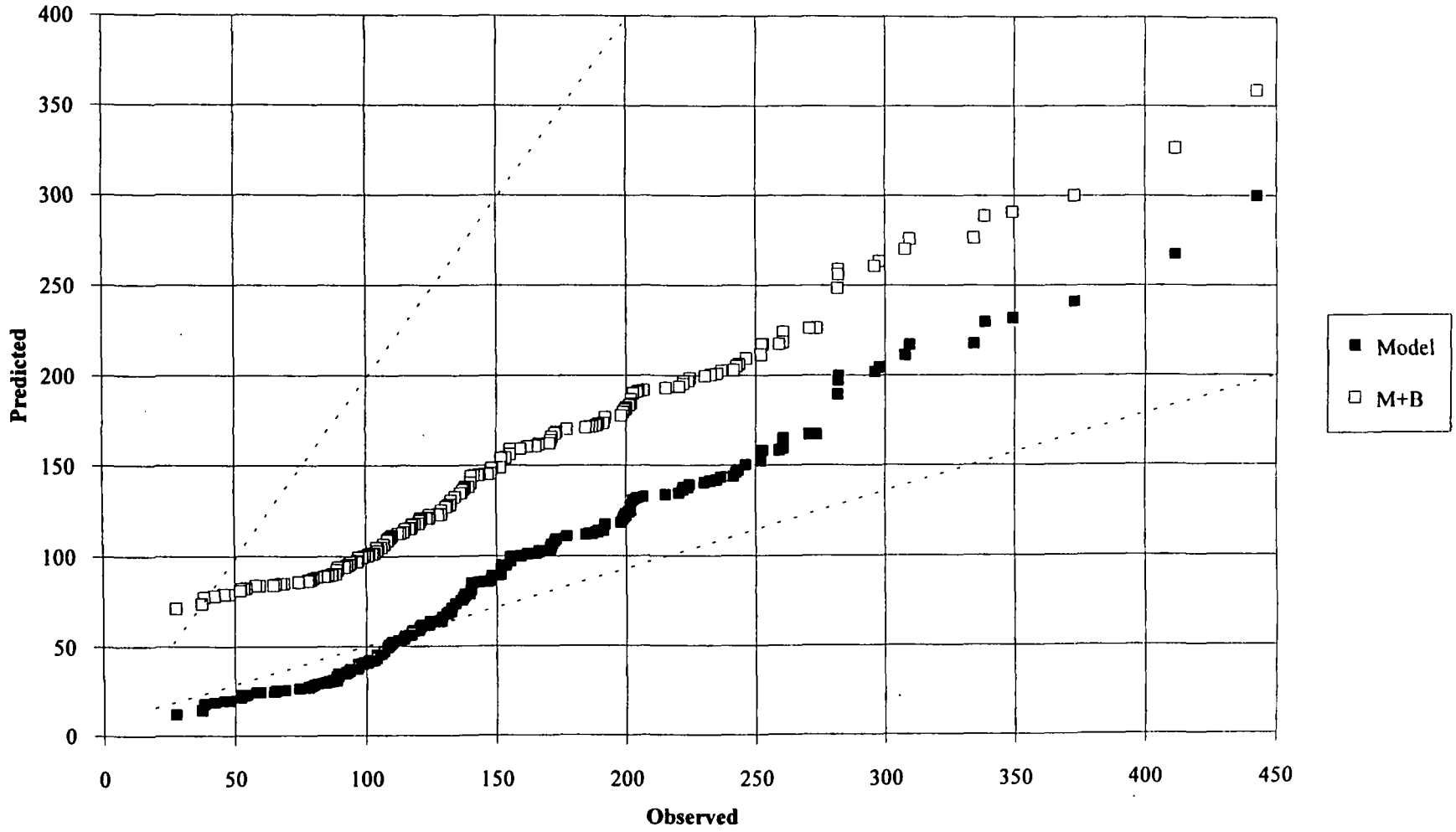
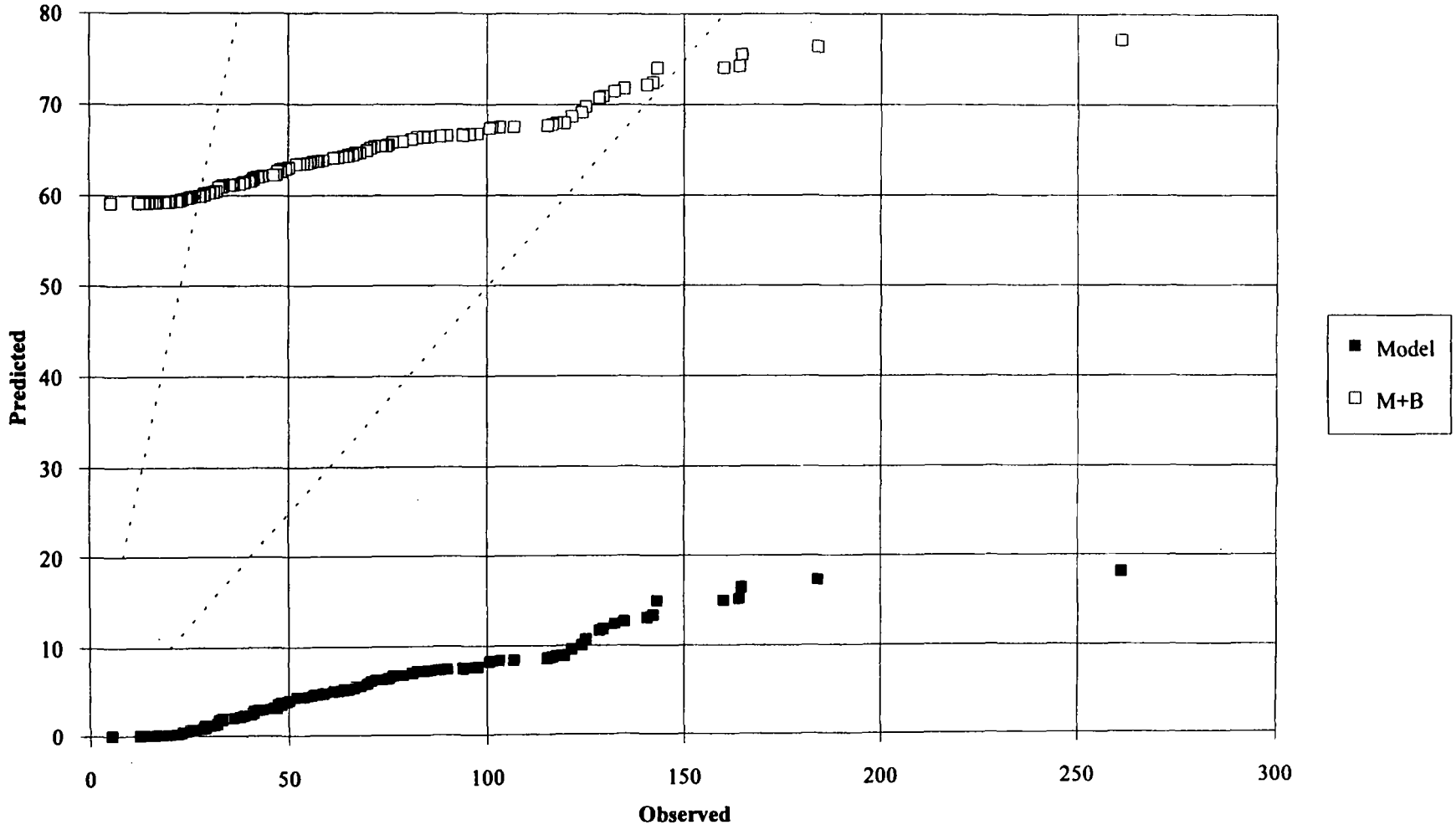


Figure AI-2-10
24-hour TSP for Site 3 Oct. 1, 1993 to September 30, 1994



9MOPMTSP.XLS Chart 39

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Figure AI-2-11
24-hour TSP for Site 4 Oct. 1, 1993 to September 30, 1994

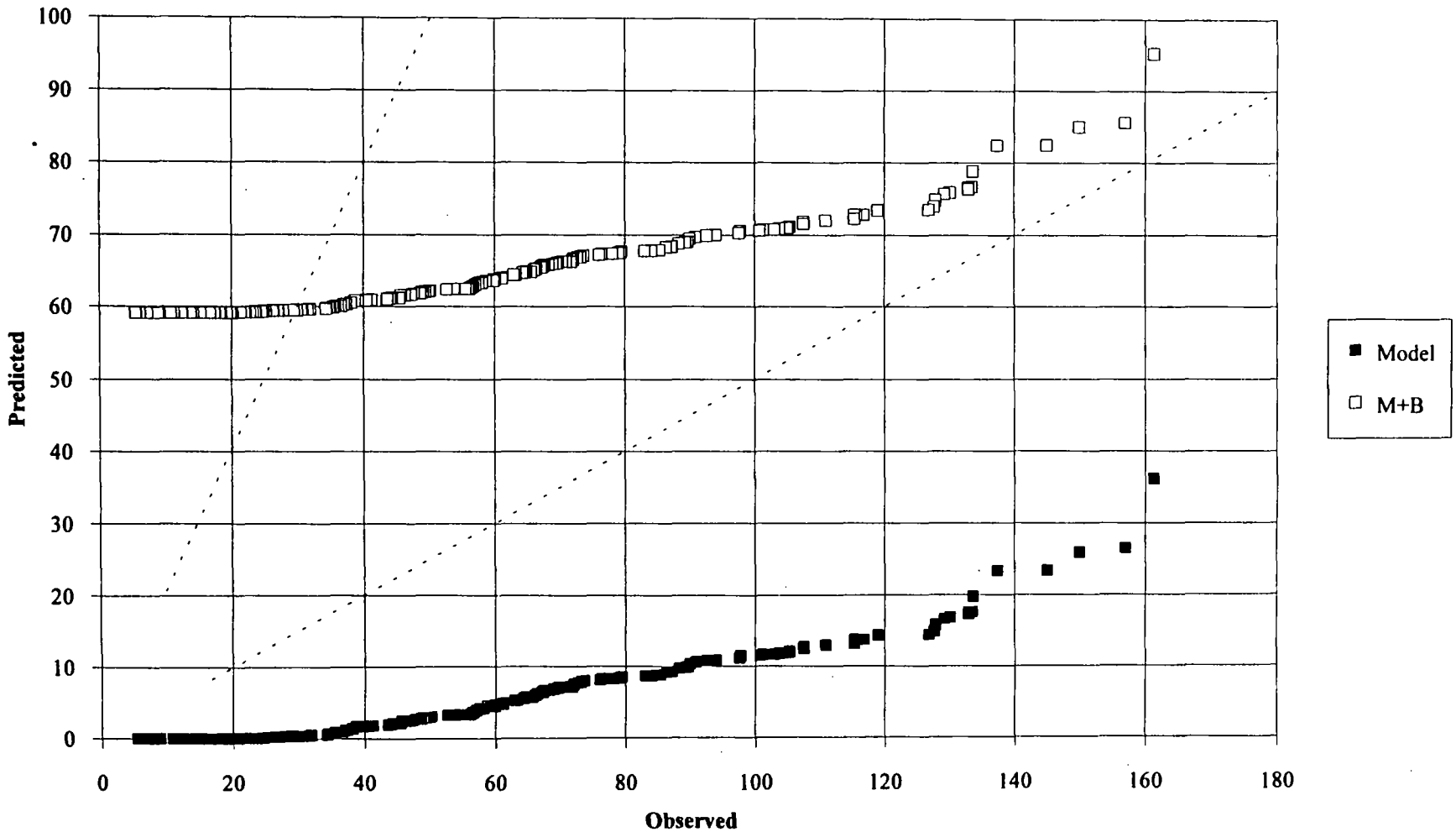
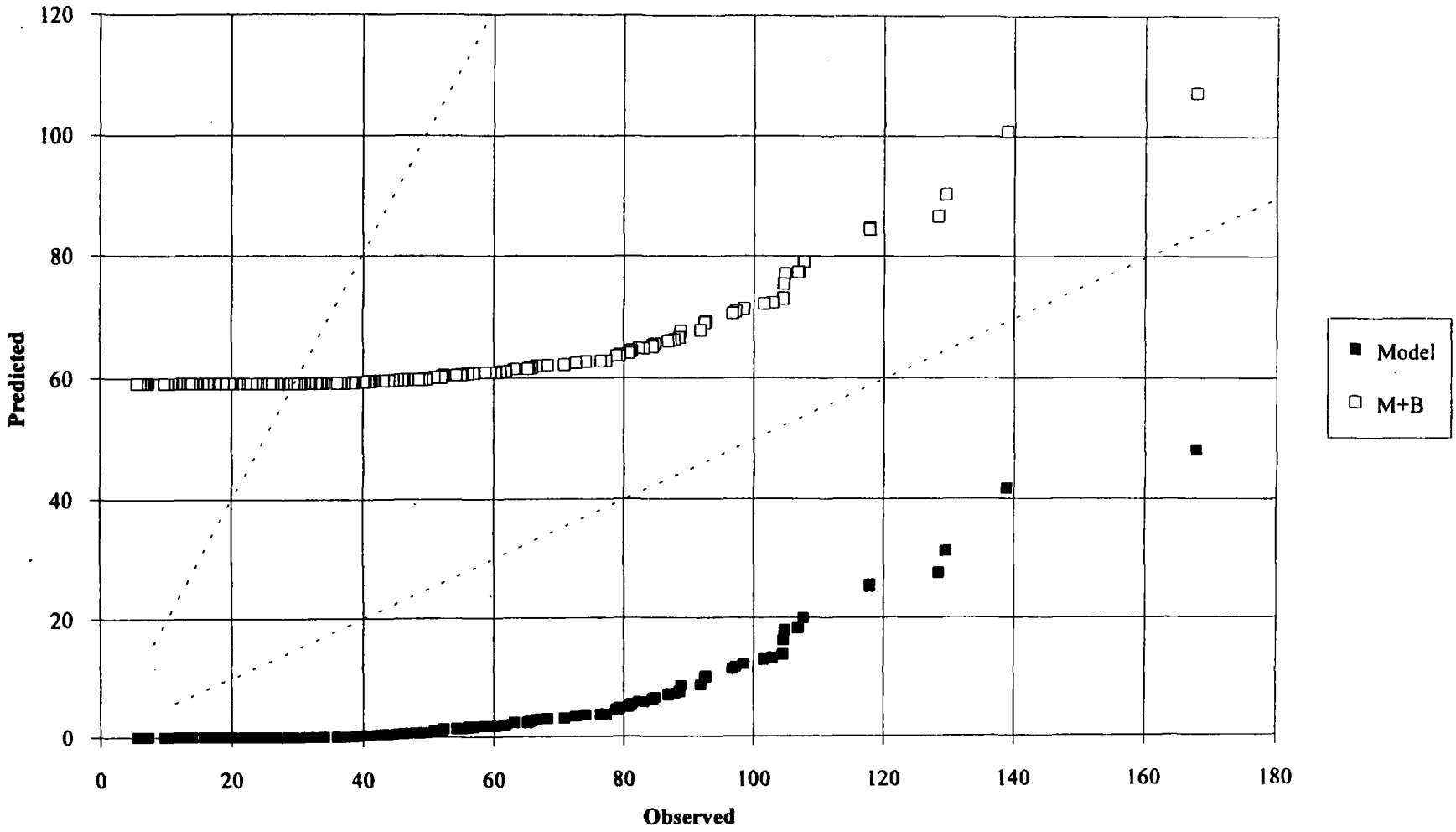


Figure AI-2-12
24-hour TSP for Site 5 Oct. 1, 1993 to September 30, 1994



9MOPMTSP.XLS Chart 41

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Figure AI-2-13
24-hour TSP for Site 6 Oct. 1, 1993 to September 30, 1994

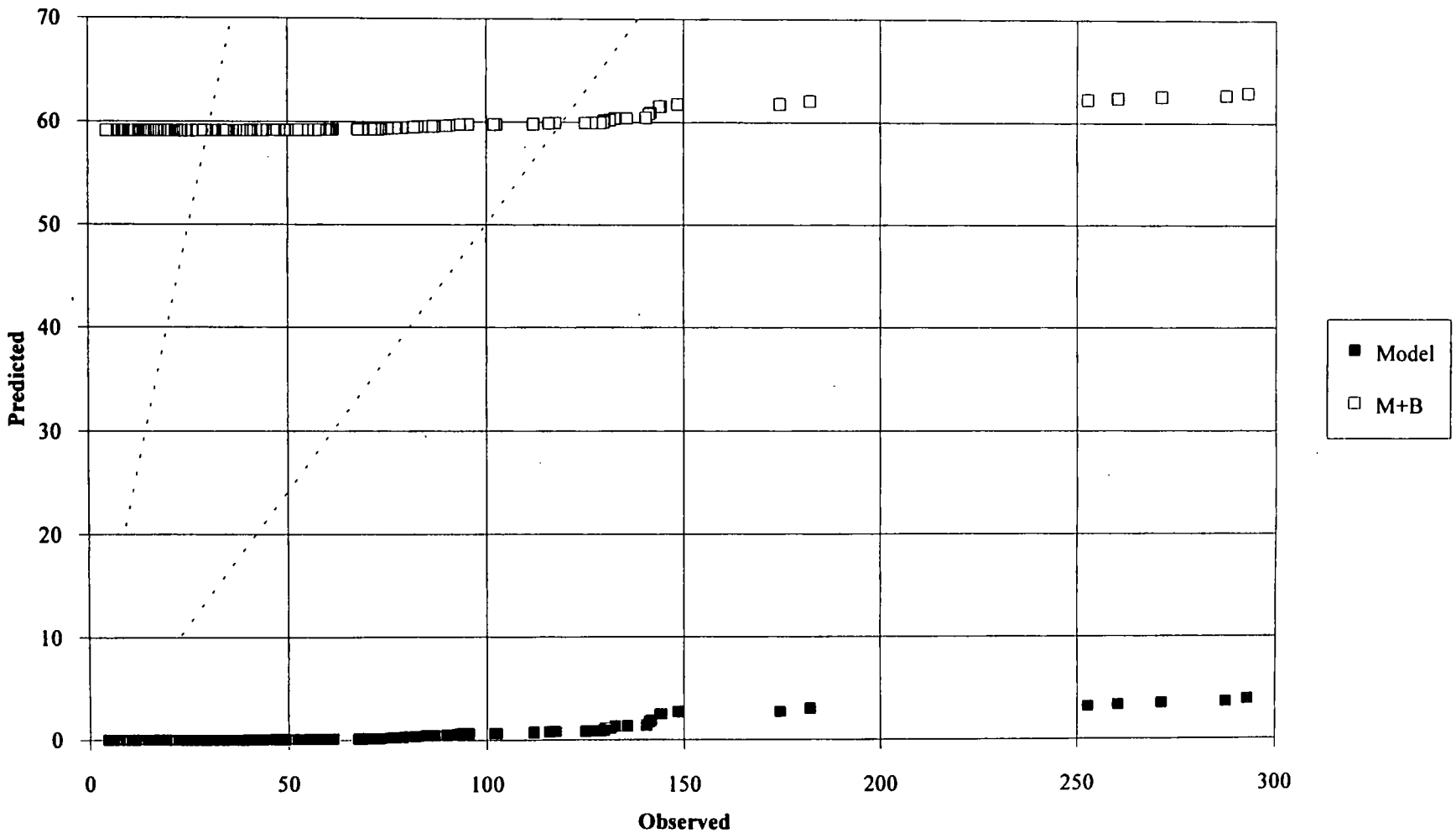


Figure AI-2-14
24-hour TSP for Site 7 Oct. 1, 1993 to September 30, 1994

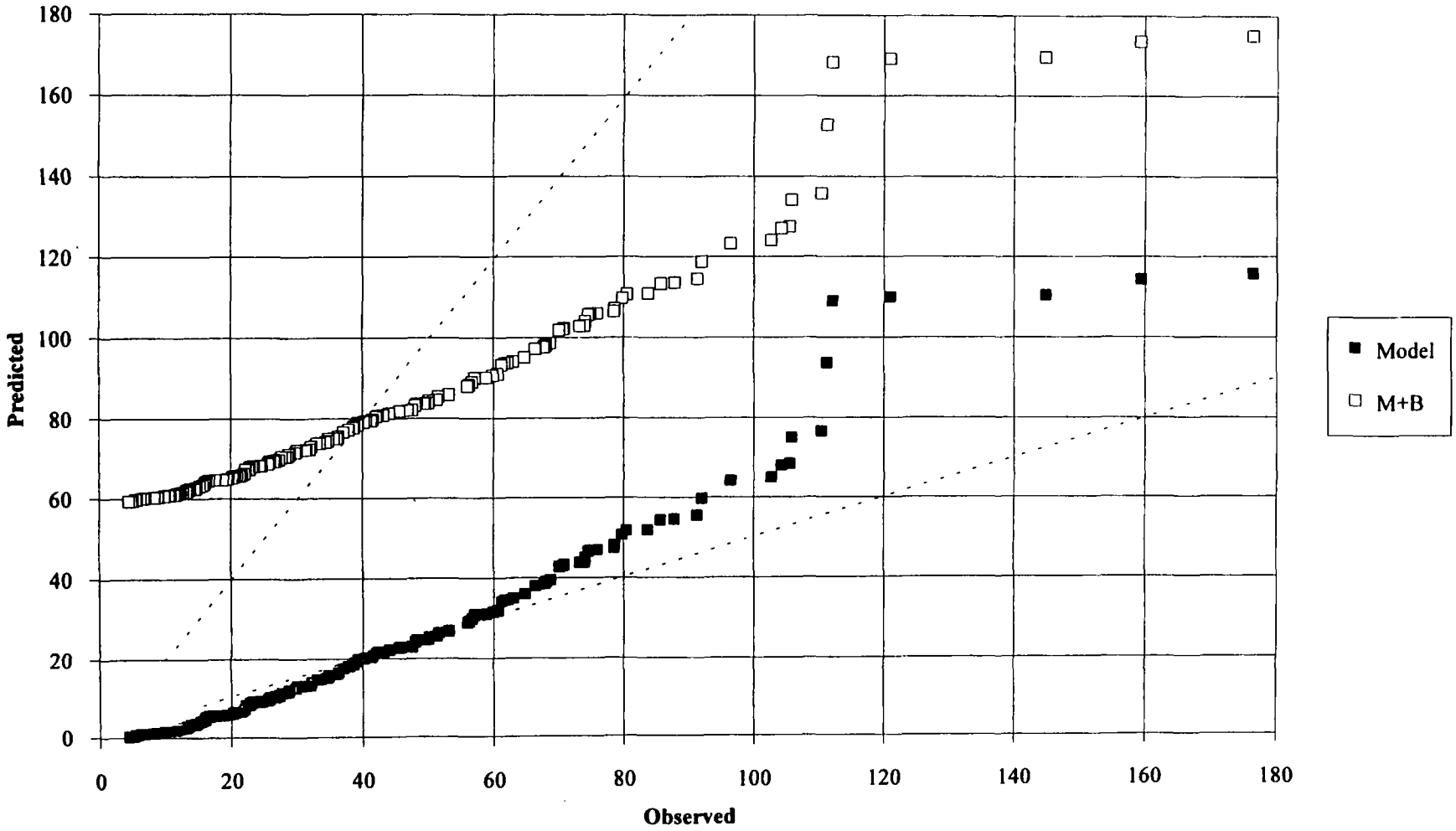


Figure AI-2-15
24-hour Arsenic for Site 1 Oct. 1, 1993 to September 30, 1994

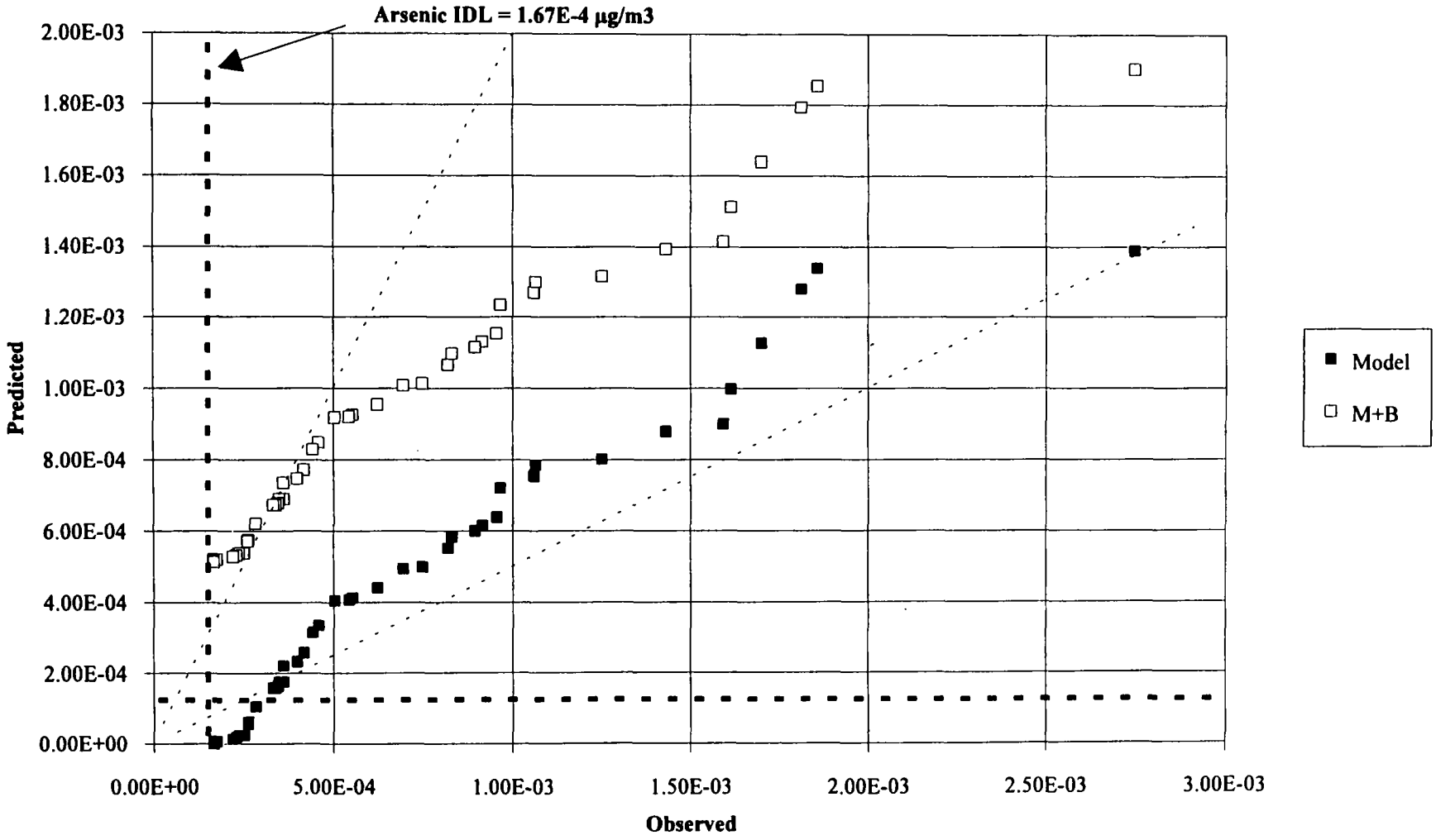


Figure AI-2-16
24-hour Arsenic for Site 2 Oct. 1, 1993 to September 30, 1994

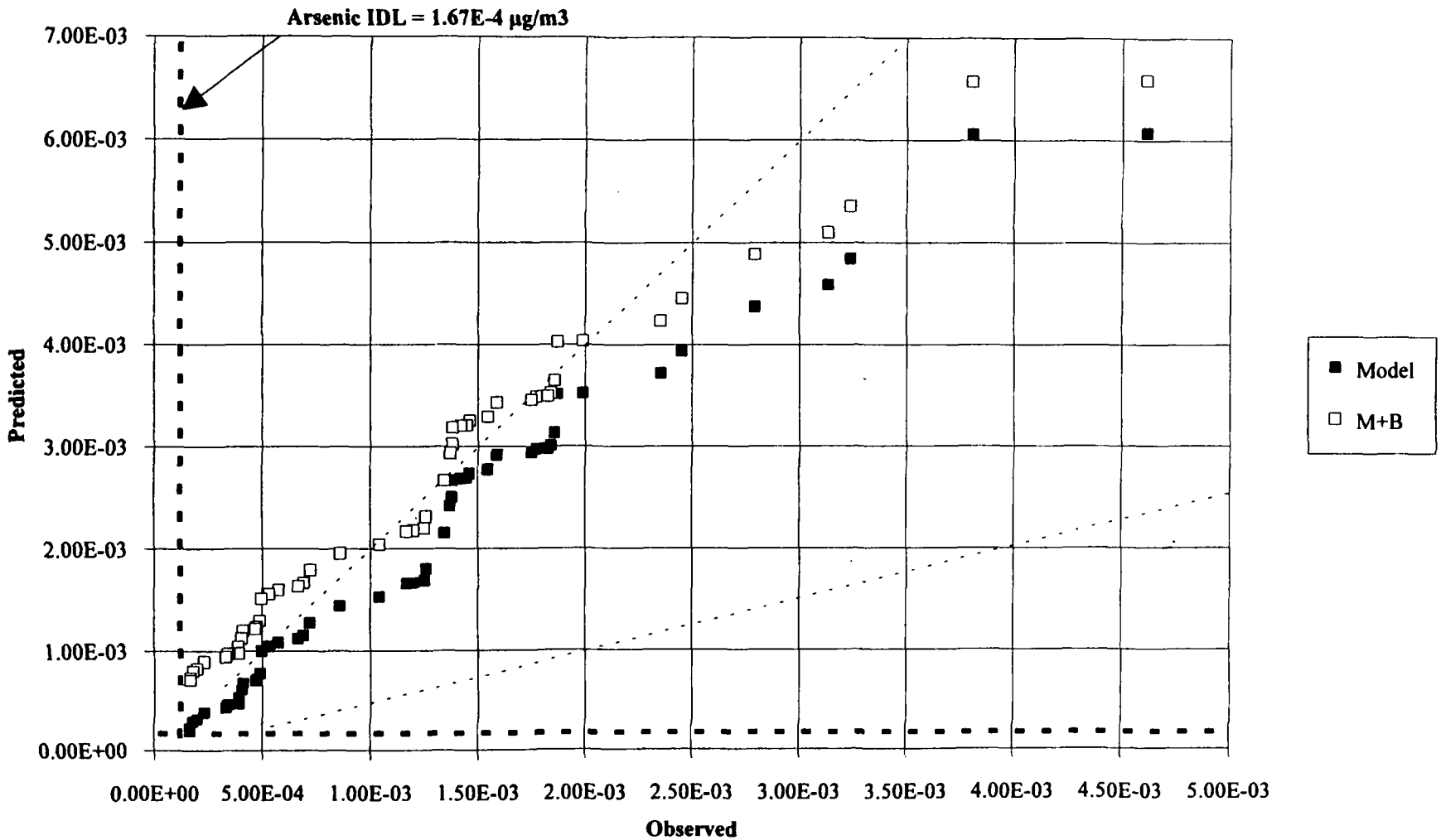


Figure AI-2-17
24-hour Arsenic for Site 3 Oct. 1, 1993 to June 24, 1994

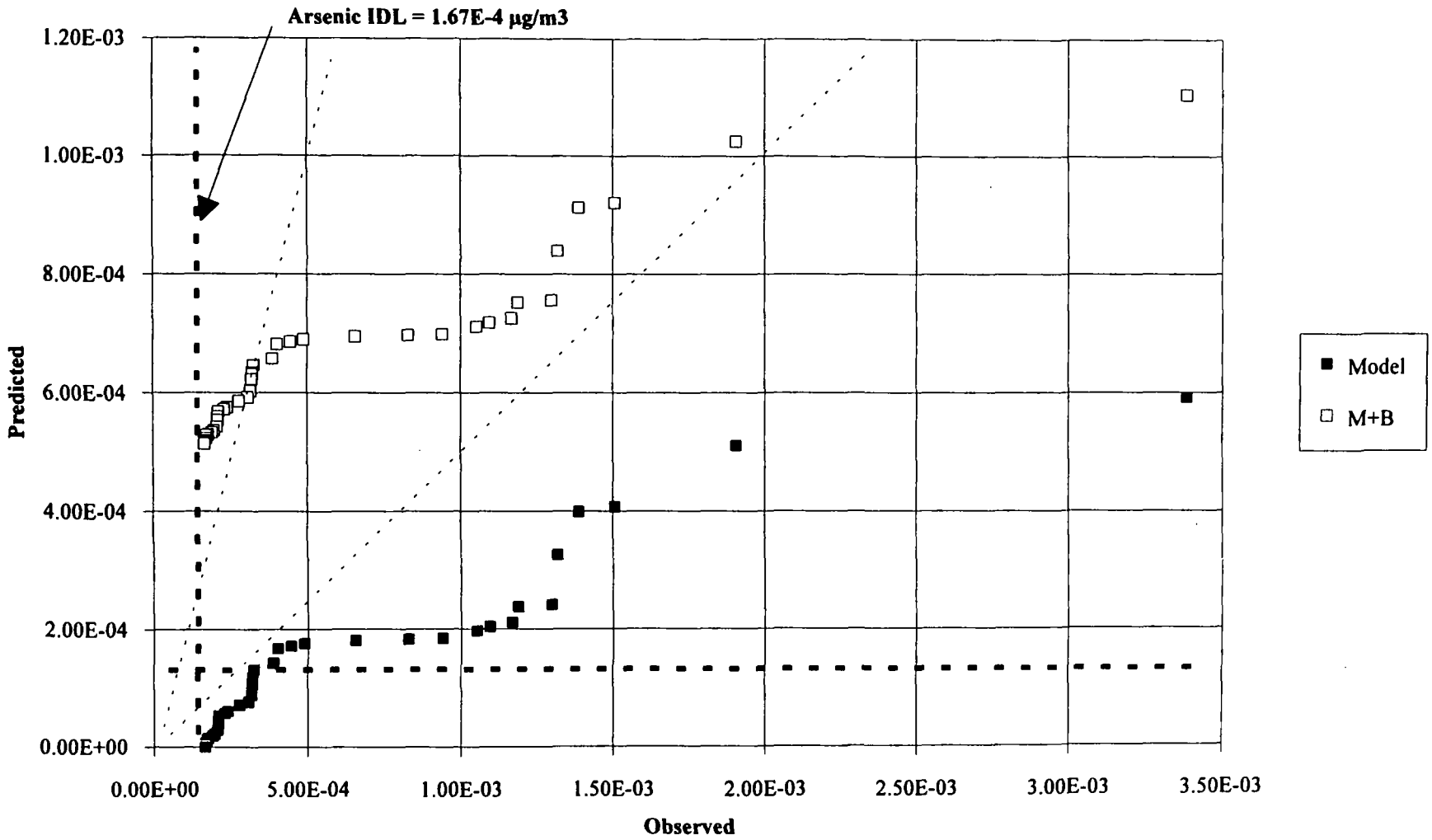


Figure AI-2-18
24-hour Arsenic for Site 4 Oct. 1, 1993 to September 30, 1994

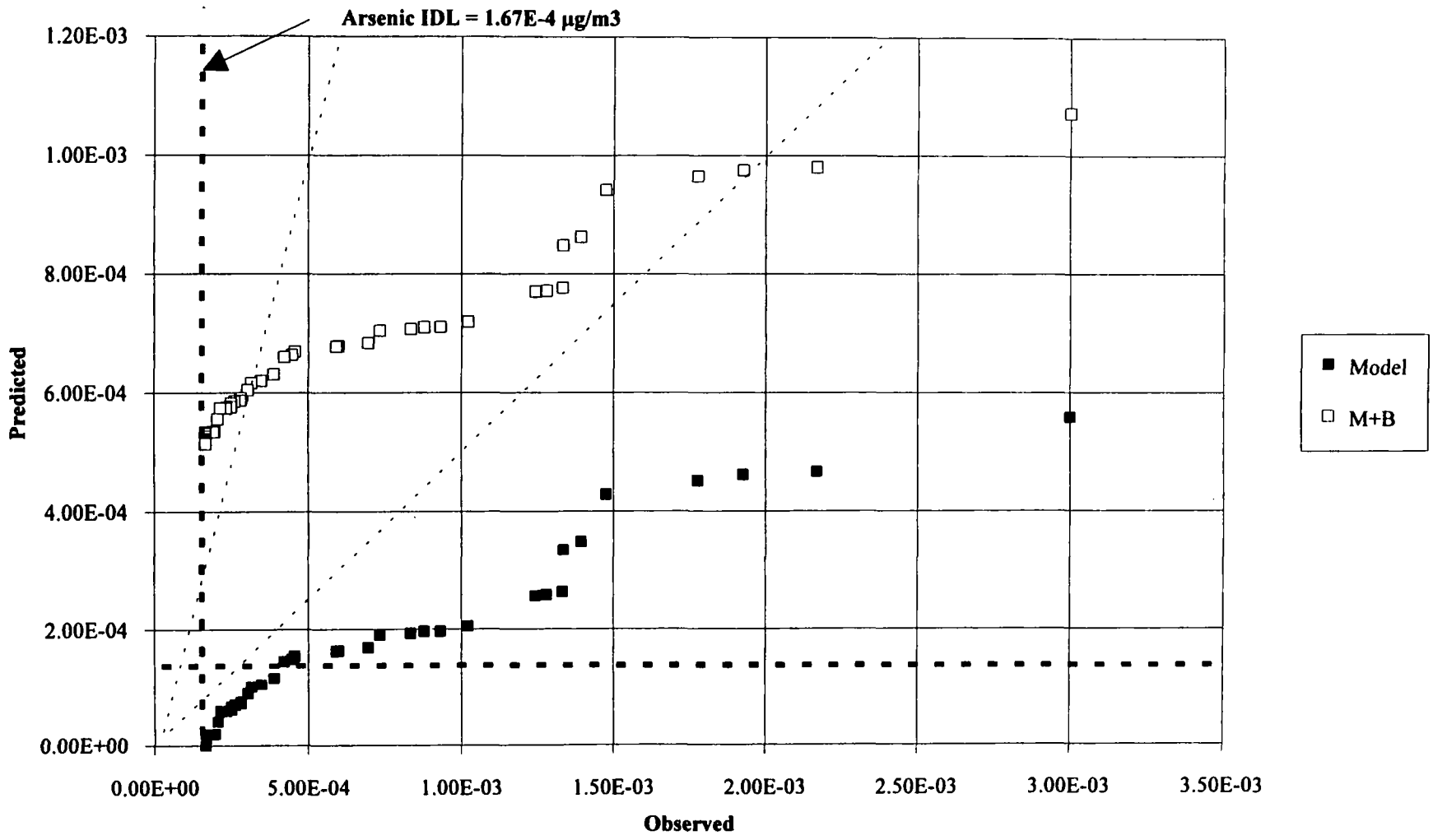


Figure AI-2-19
24-hour Arsenic for Site 5 Oct. 1, 1993 to September 30, 1994

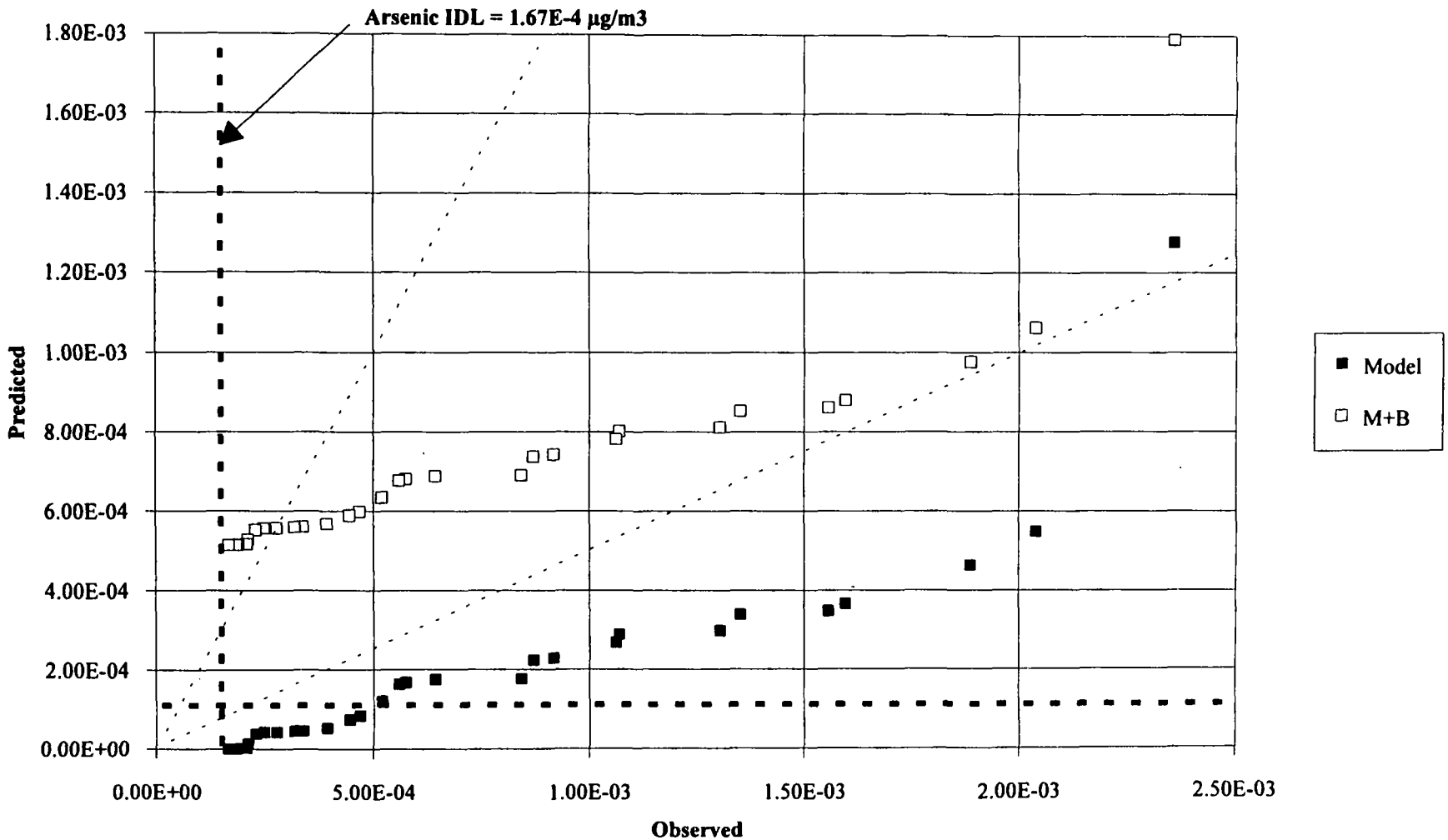


Figure AI-2-20
24-hour Arsenic for Site 6 Oct. 1, 1993 to September 30, 1994

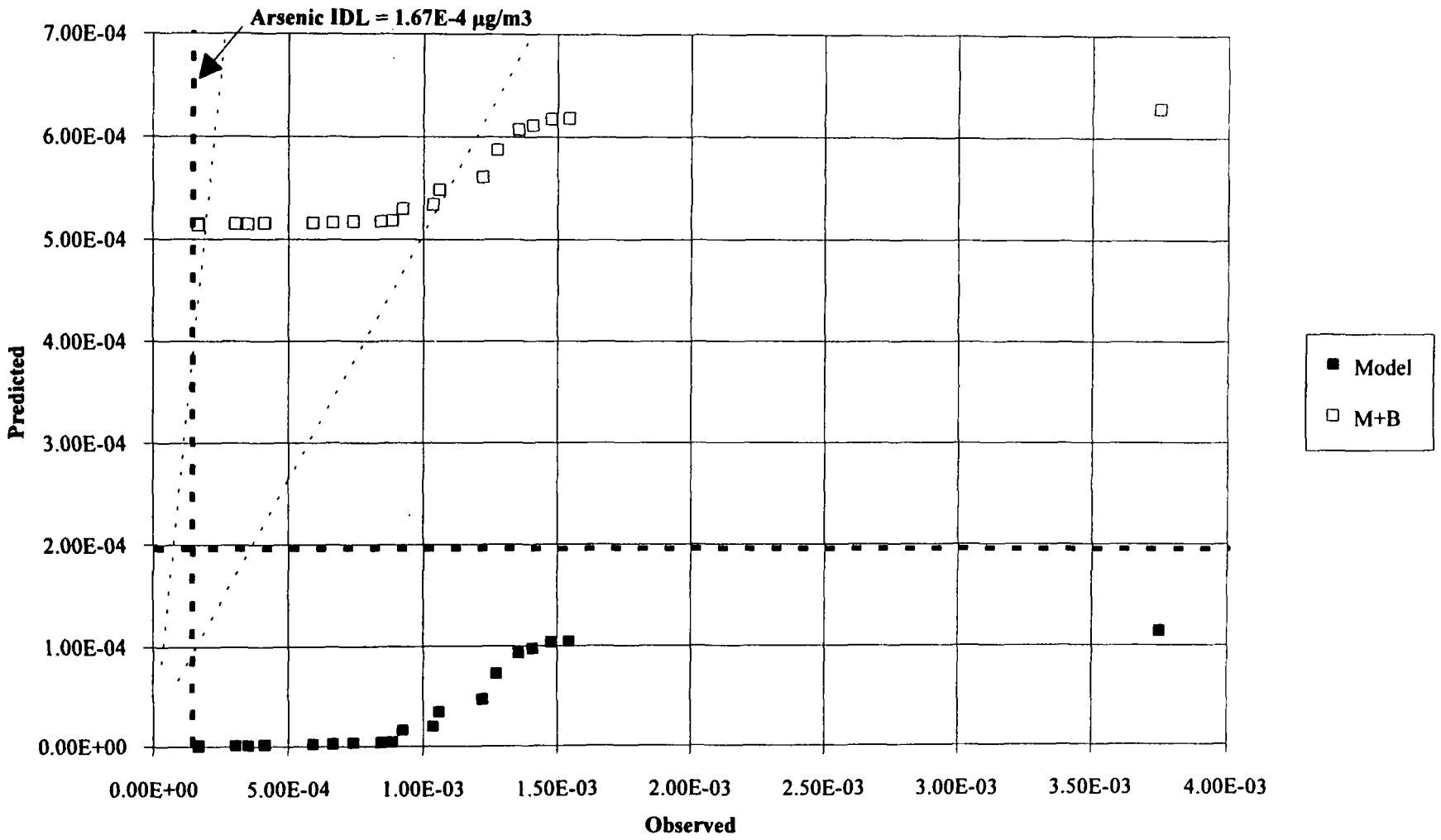


Figure AI-2-21
24-hour Arsenic for Site 7 Oct. 1, 1993 to September 30, 1994

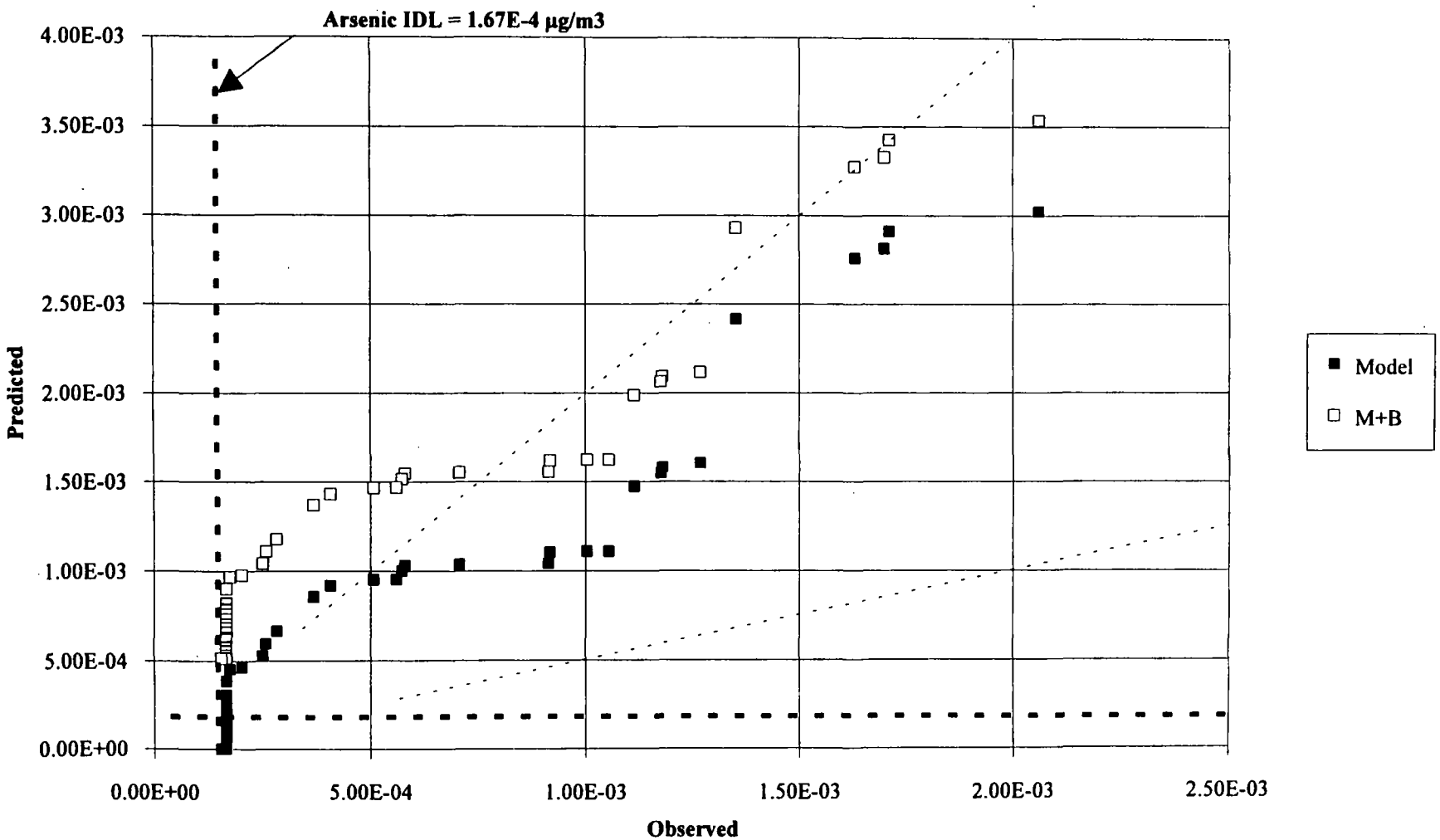
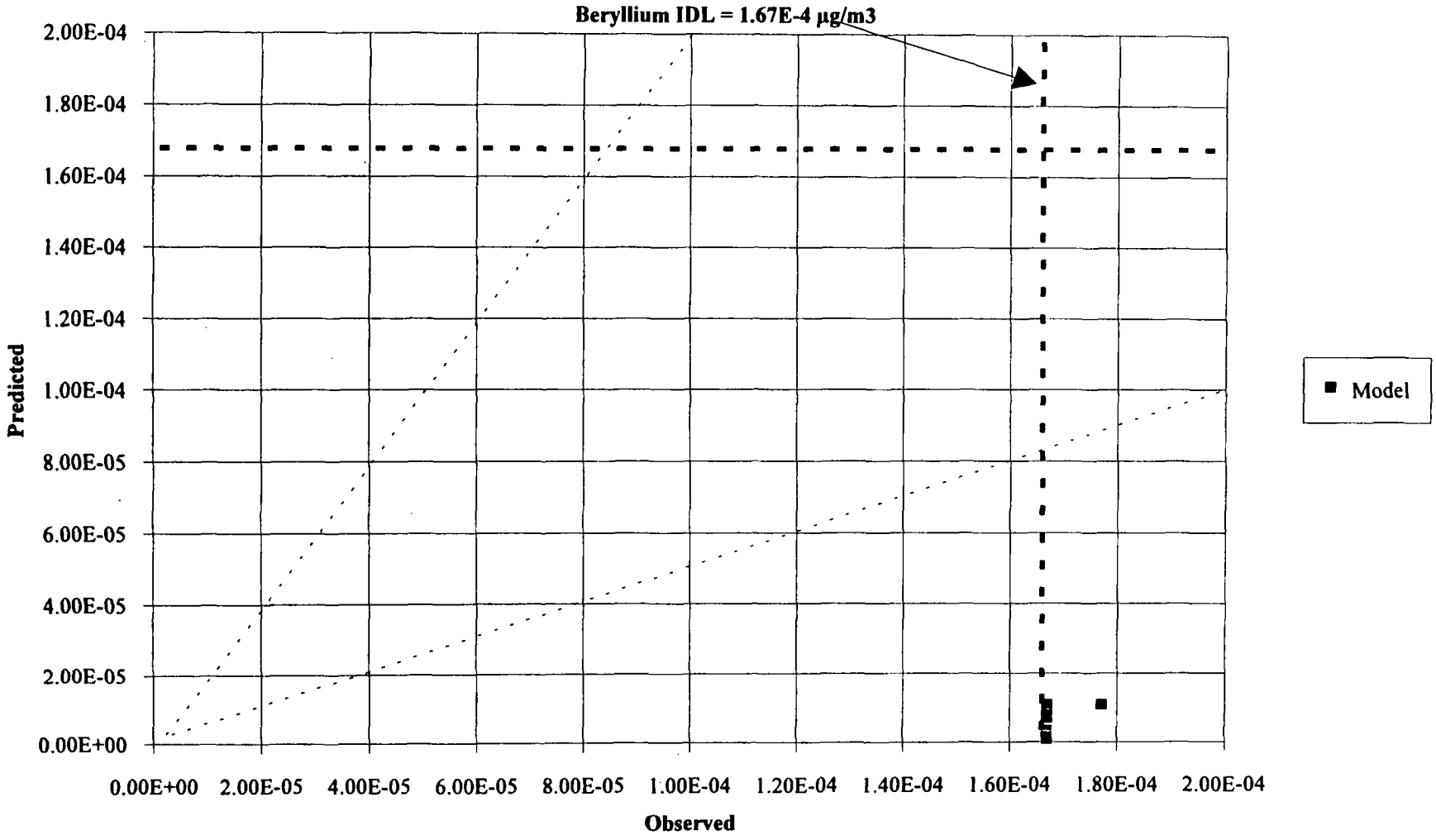


Figure AI-2-22
24-hour Beryllium for Site 1 Oct. 1, 1993 to September 30, 1994



Predicted concentrations are much less than a factor of 2 lower than the observed concentrations.

Figure AI-2-23
24-hour Beryllium for Site 2 Oct. 1, 1993 to September 30, 1994

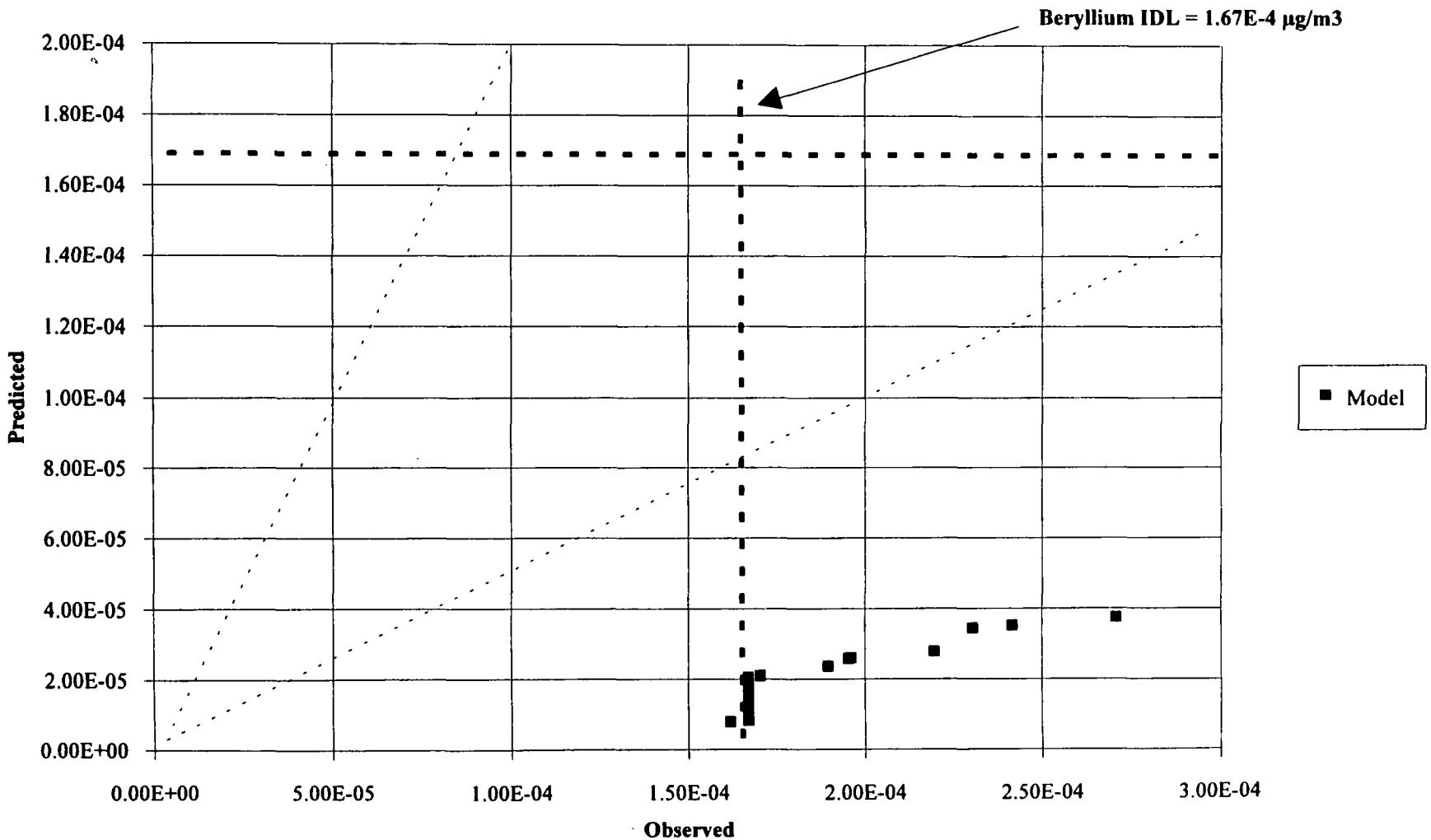


Figure AI-2-24
24-hour Beryllium for Site 4 Oct. 1, 1993 to September 30, 1994

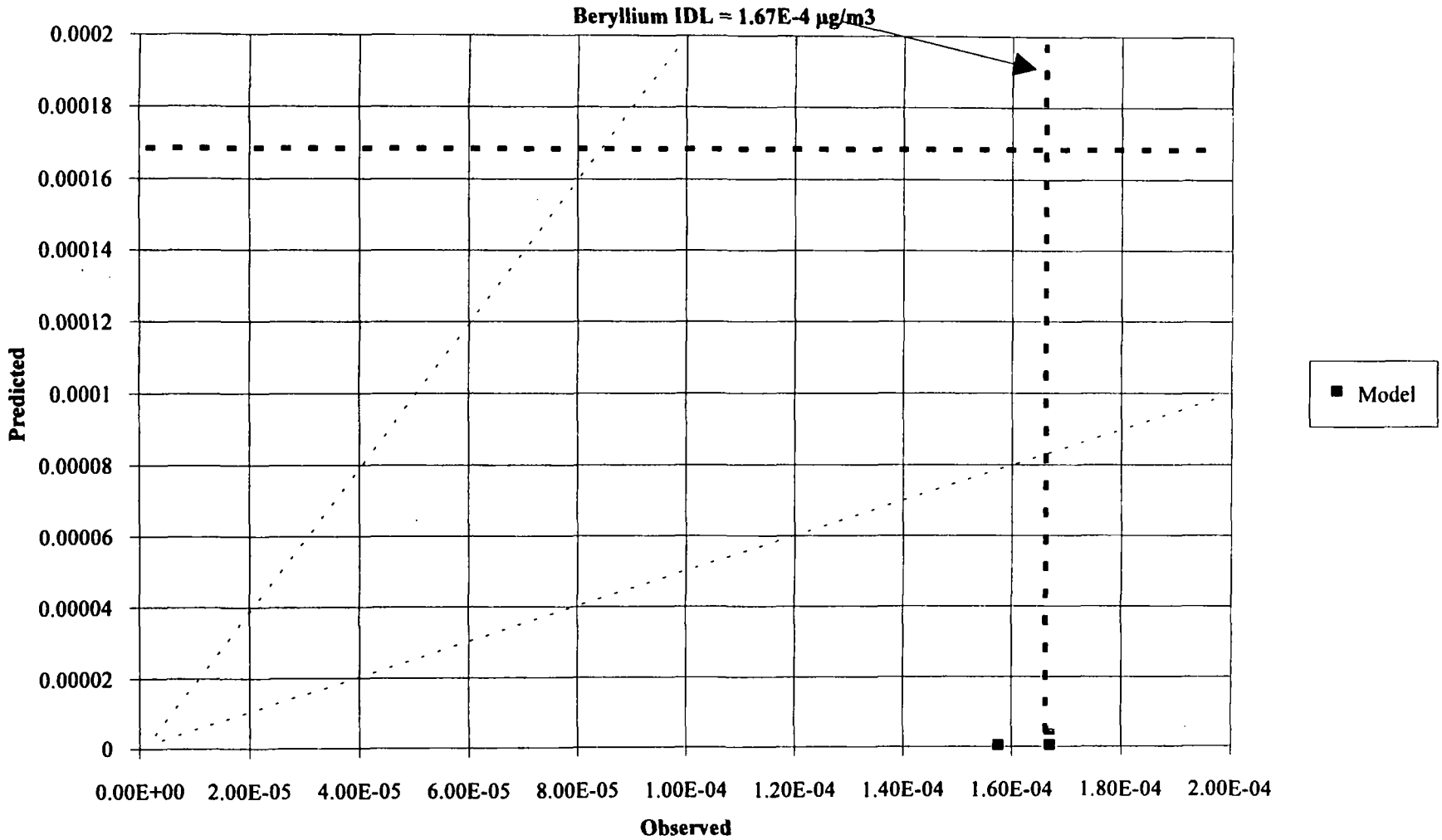


Figure AI-2-25
24-hour Cadmium for Site 1 Oct. 1, 1993 to September 30, 1994

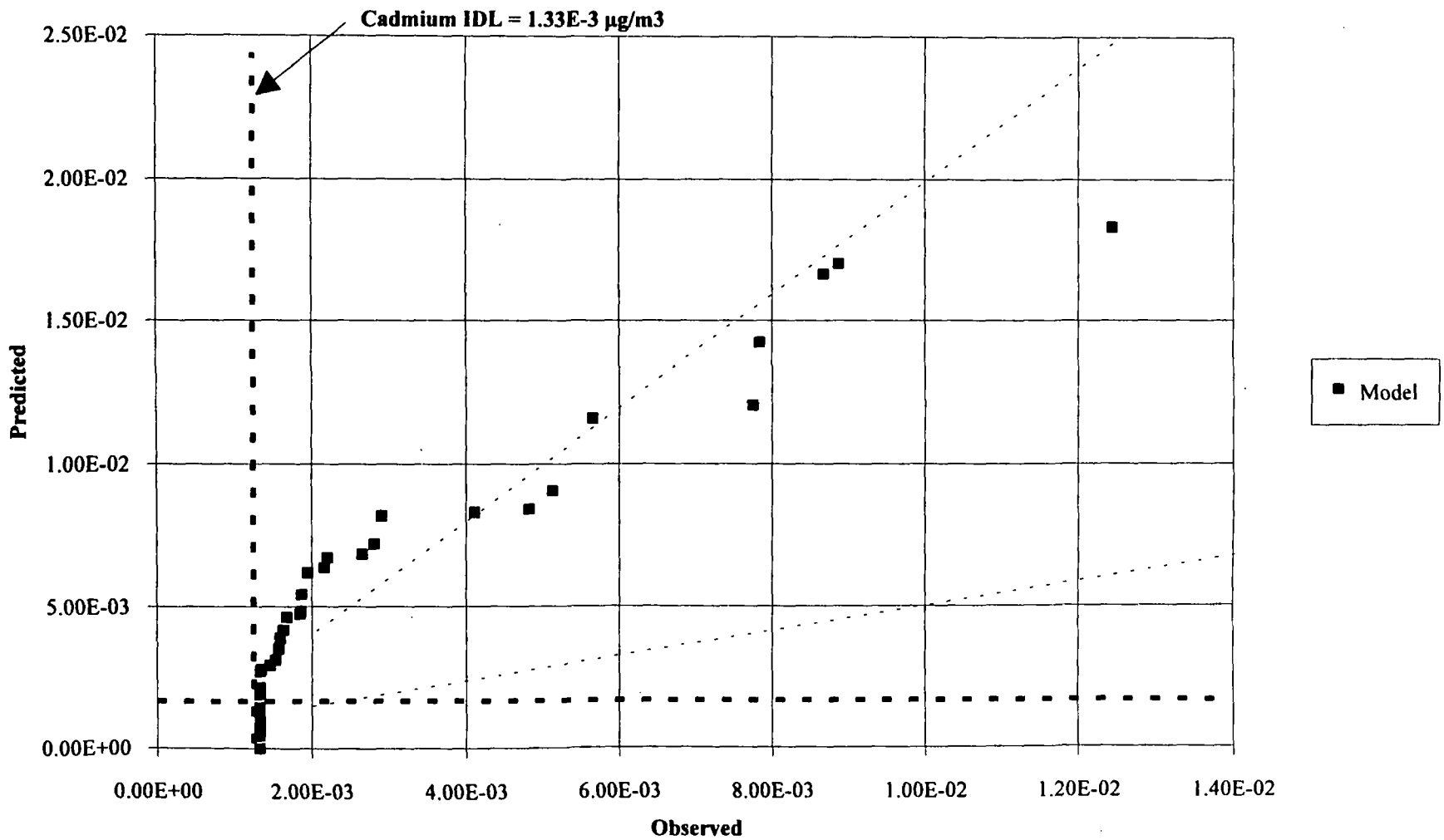


Figure AI-2-25
24-hour Cadmium for Site 1 Oct. 1, 1993 to September 30, 1994

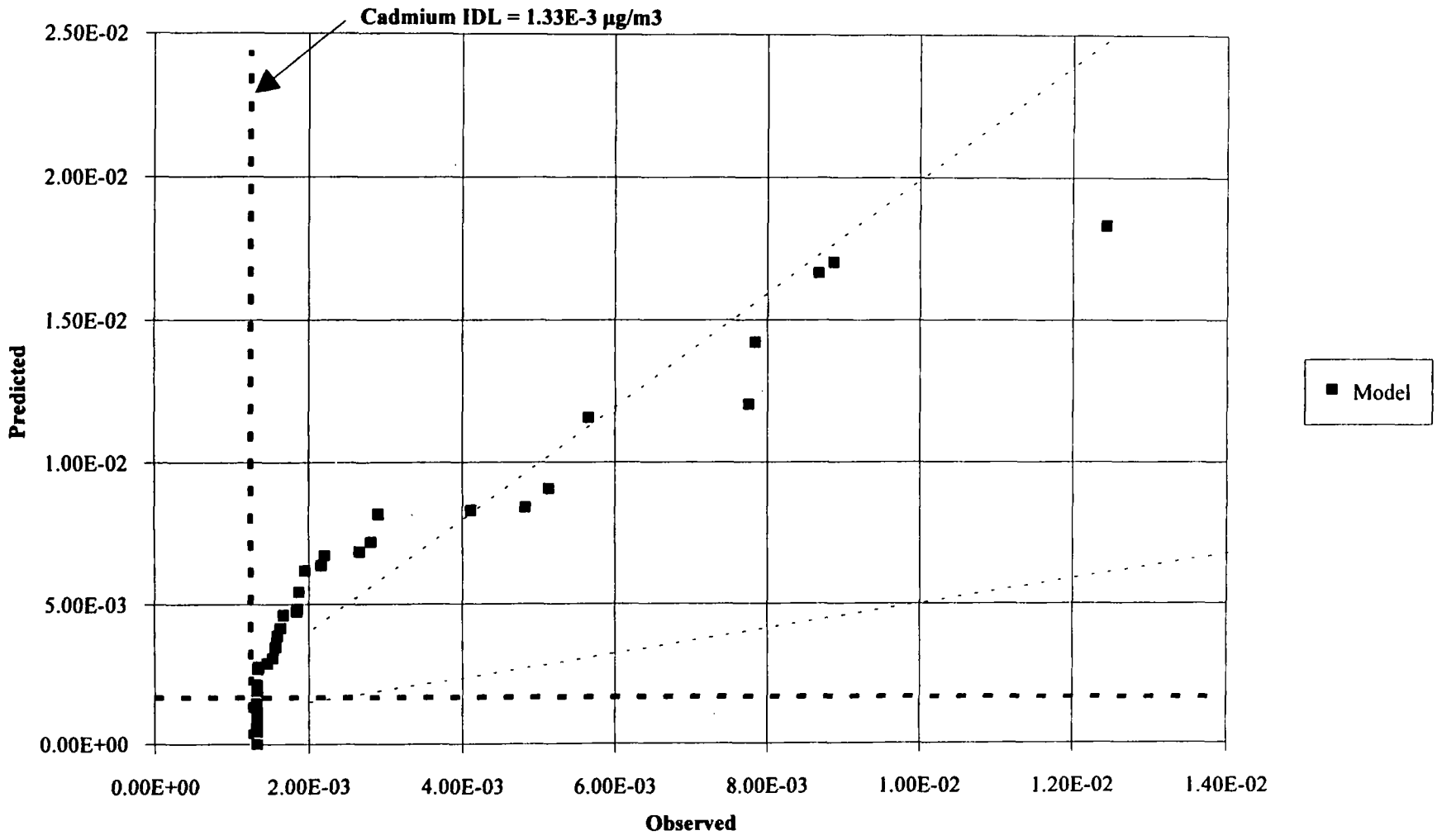


Figure AI-2-26
24-hour Cadmium for Site 2 Oct. 1, 1993 to September 30, 1994

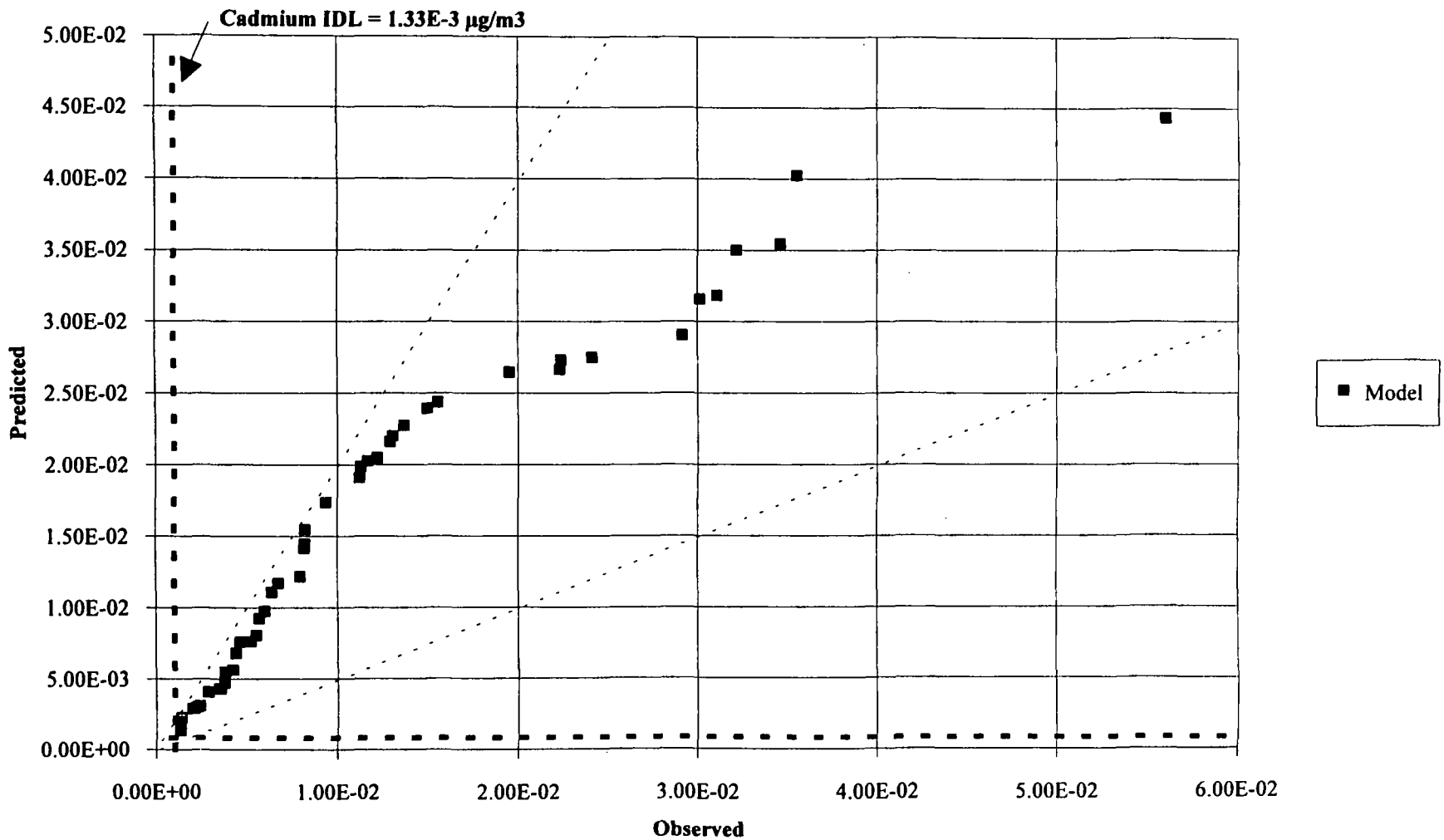


Figure AI-2-27
24-hour Cadmium for Site 3 Oct. 1, 1993 to June 24, 1994

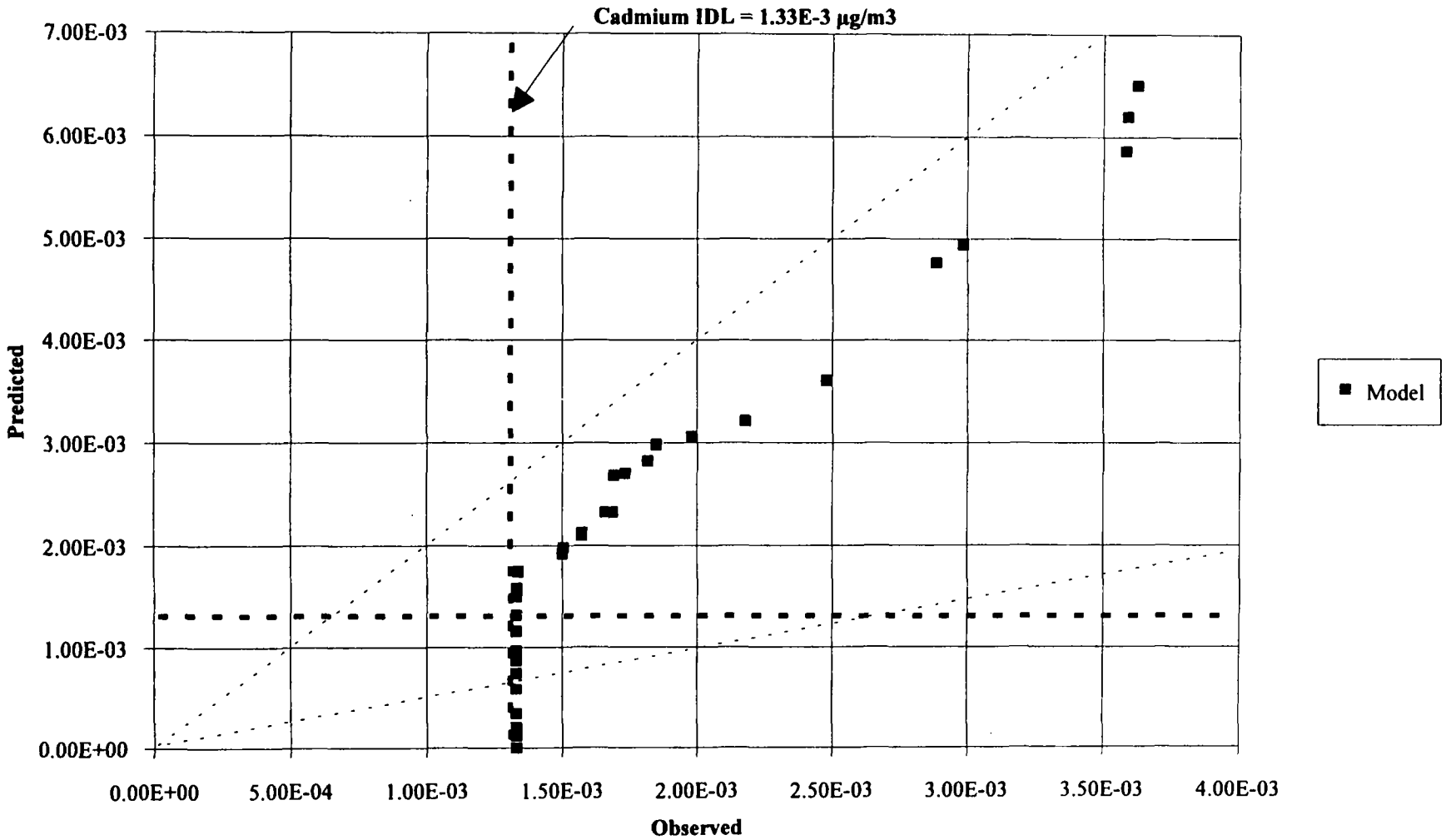


Figure AI-2-28
24-hour Cadmium for Site 4 Oct. 1, 1993 to September 30, 1994

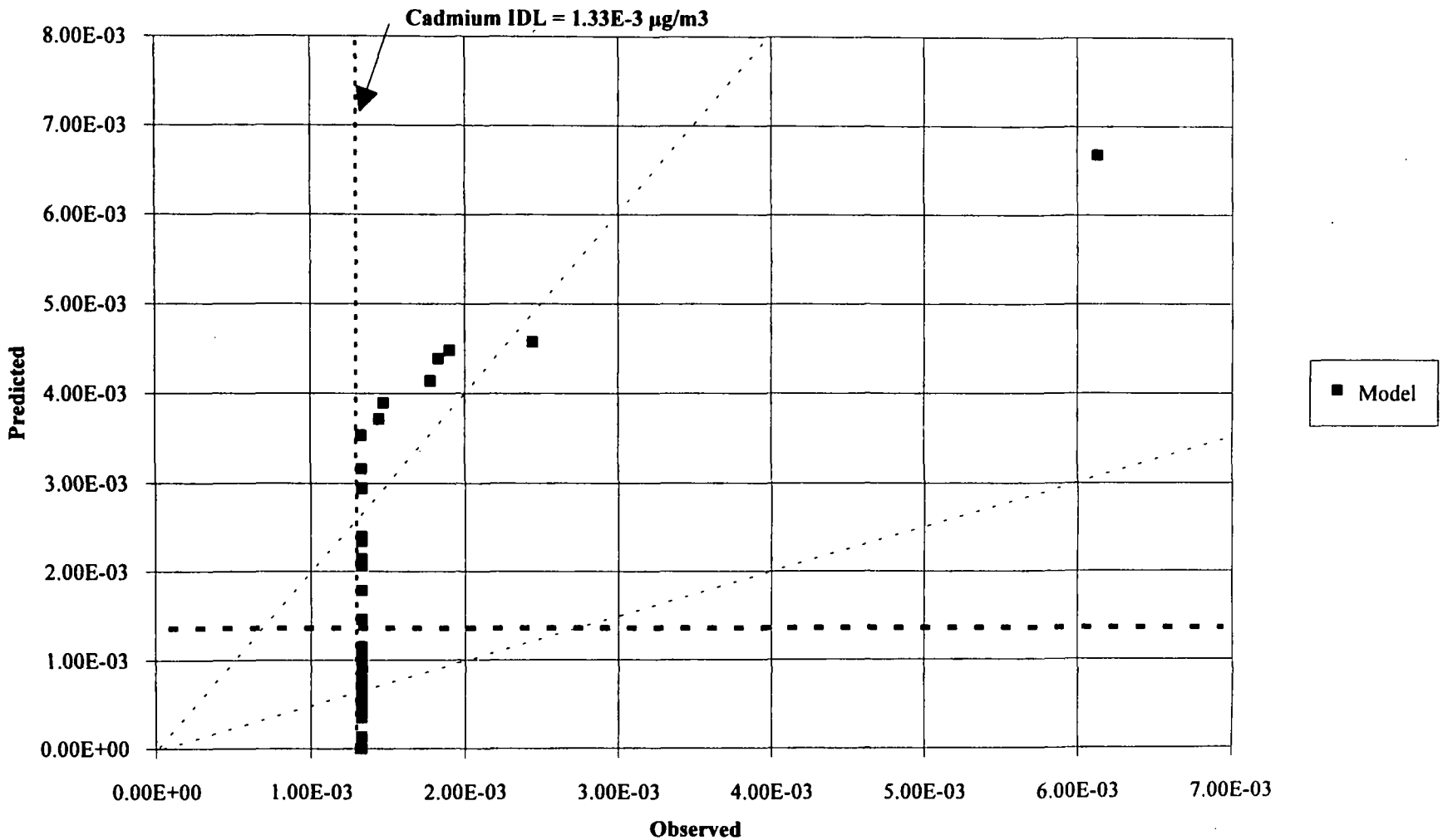


Figure AI-2-29
24-hour Cadmium for Site 5 Oct. 1, 1993 to September 30, 1994

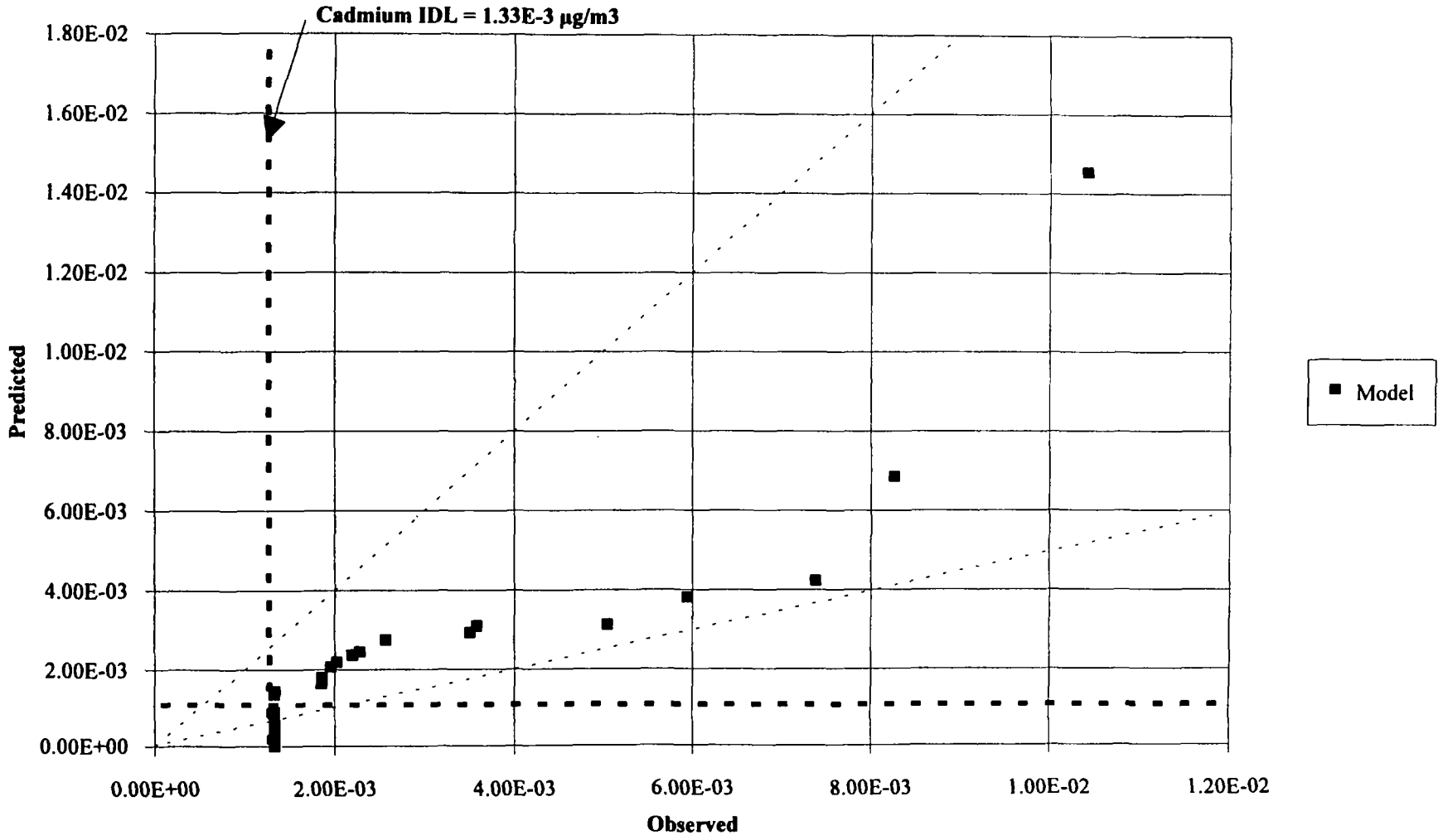


Figure AI-2-30
24-hour Cadmium for Site 6 Oct. 1, 1993 to September 30, 1994

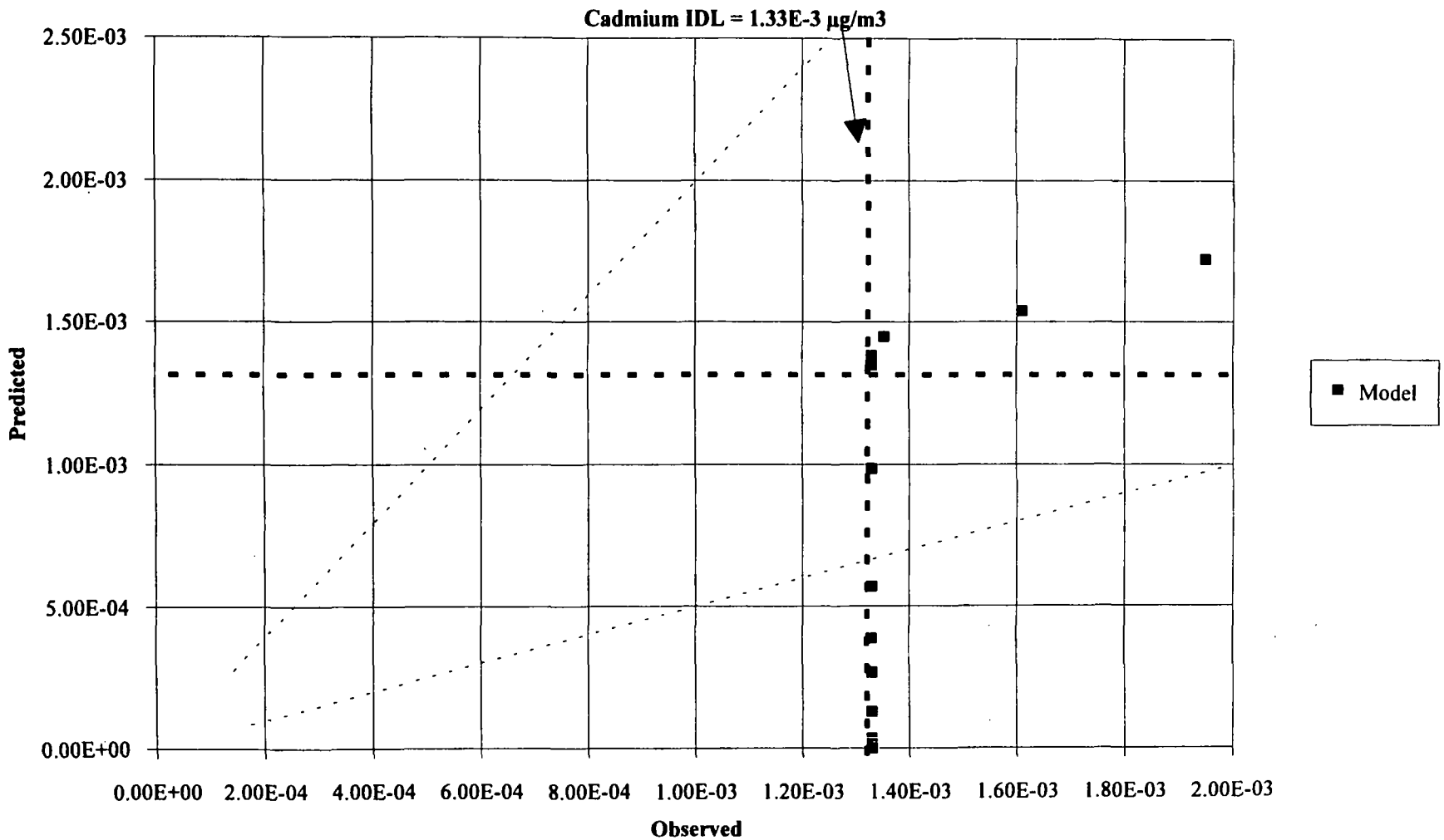


Figure AI-2-31
24-hour Cadmium for Site 7 Oct. 1, 1993 to September 30, 1994

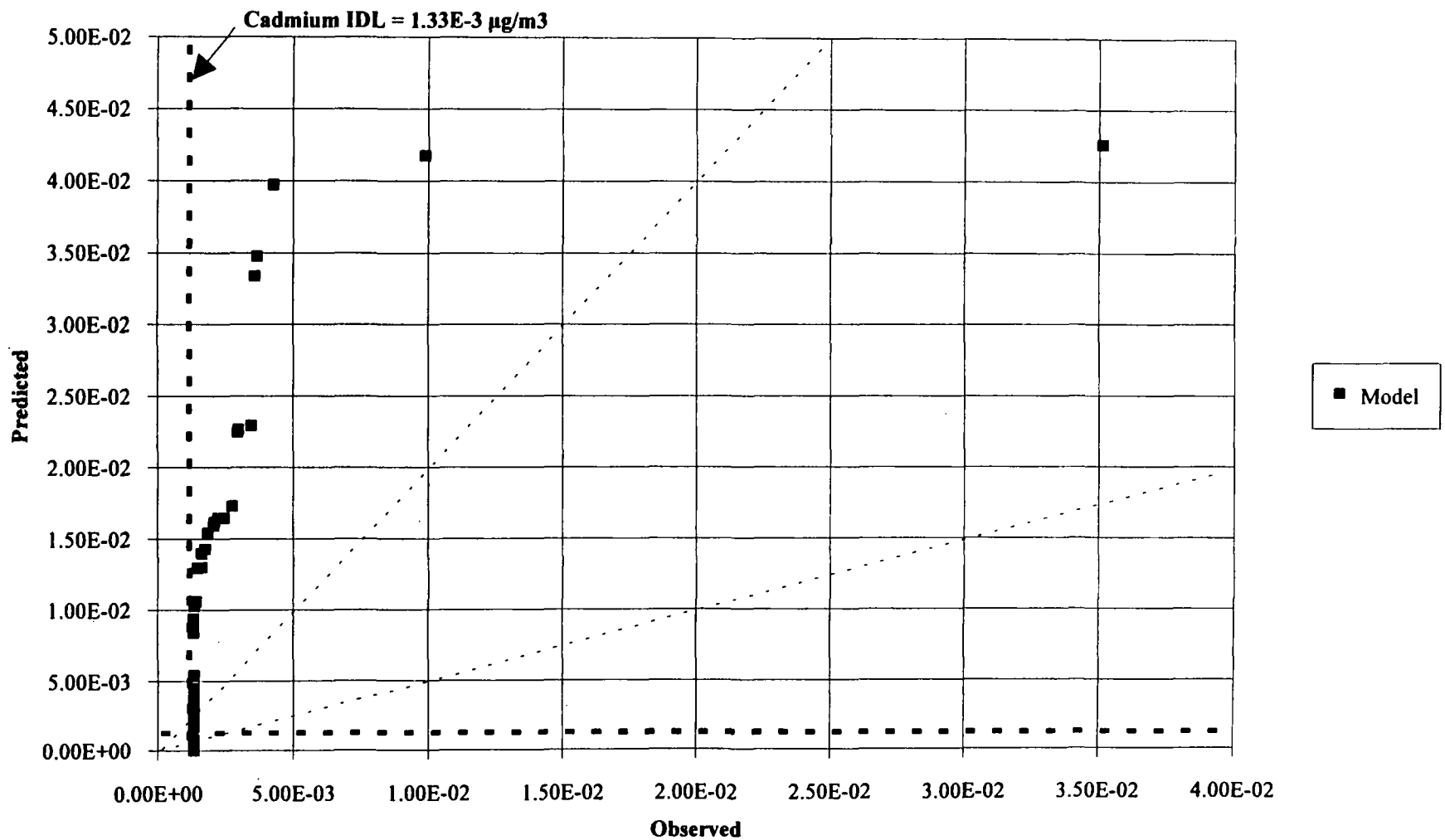


Figure AI-2-32
24-hour Total Chromium for Site 1 Oct. 1, 1993 to September 30, 1994

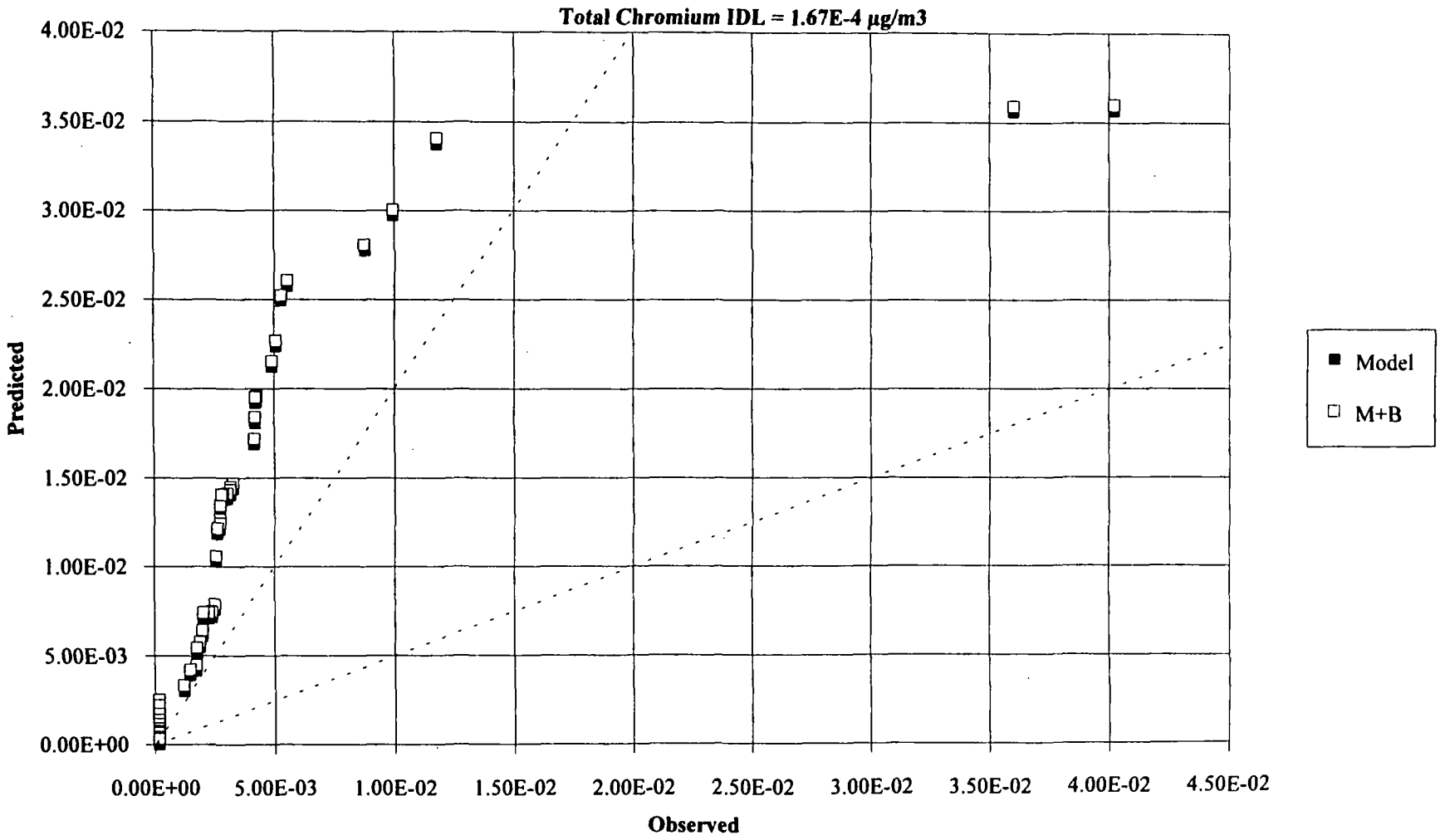


Figure AI-2-33
24-hour Total Chromium for Site 2 Oct. 1, 1993 to September 30, 1994

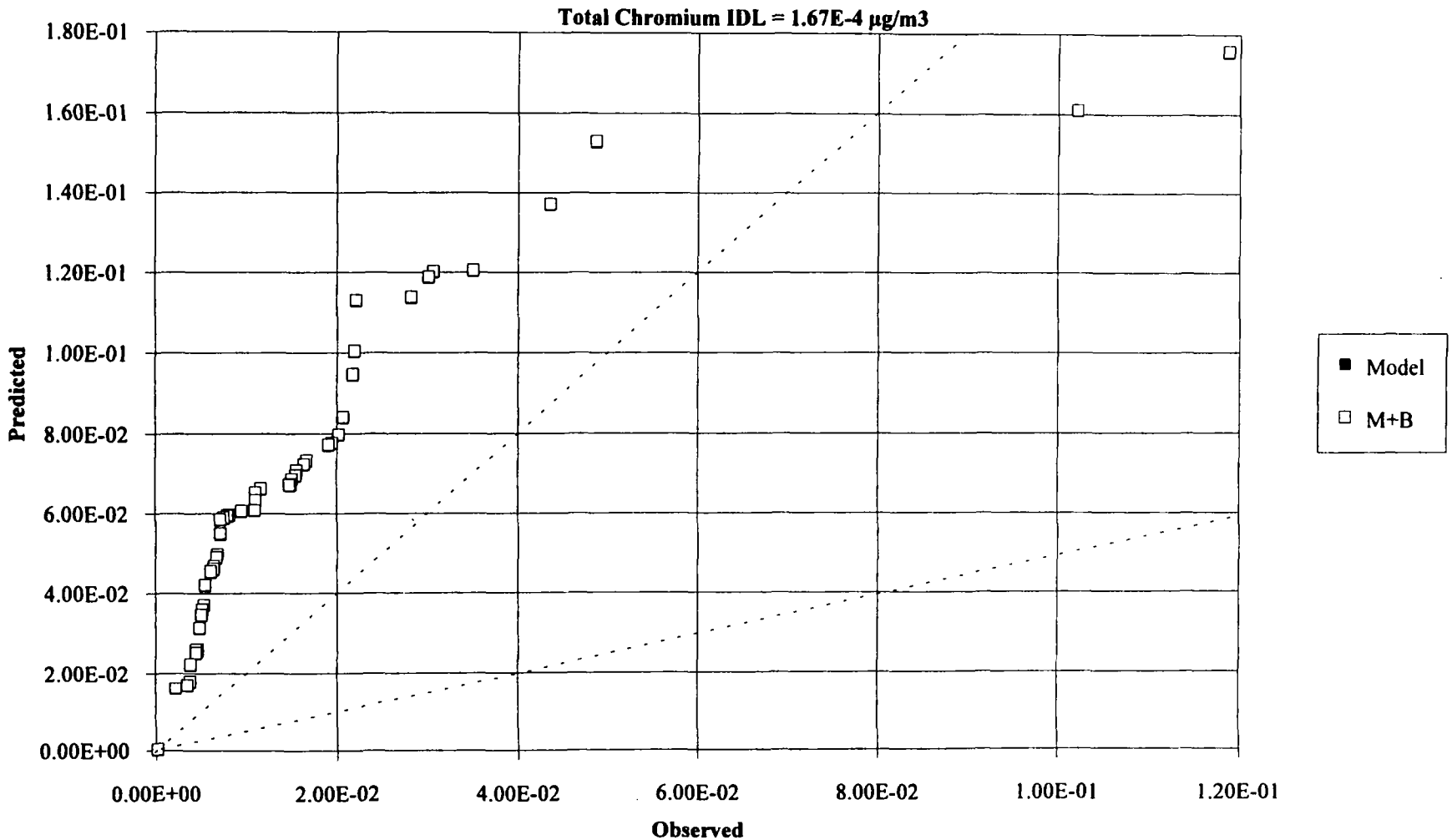


Figure AI-2-34
24-hour Total Chromium for Site 3 Oct. 1, 1993 to June 24, 1994

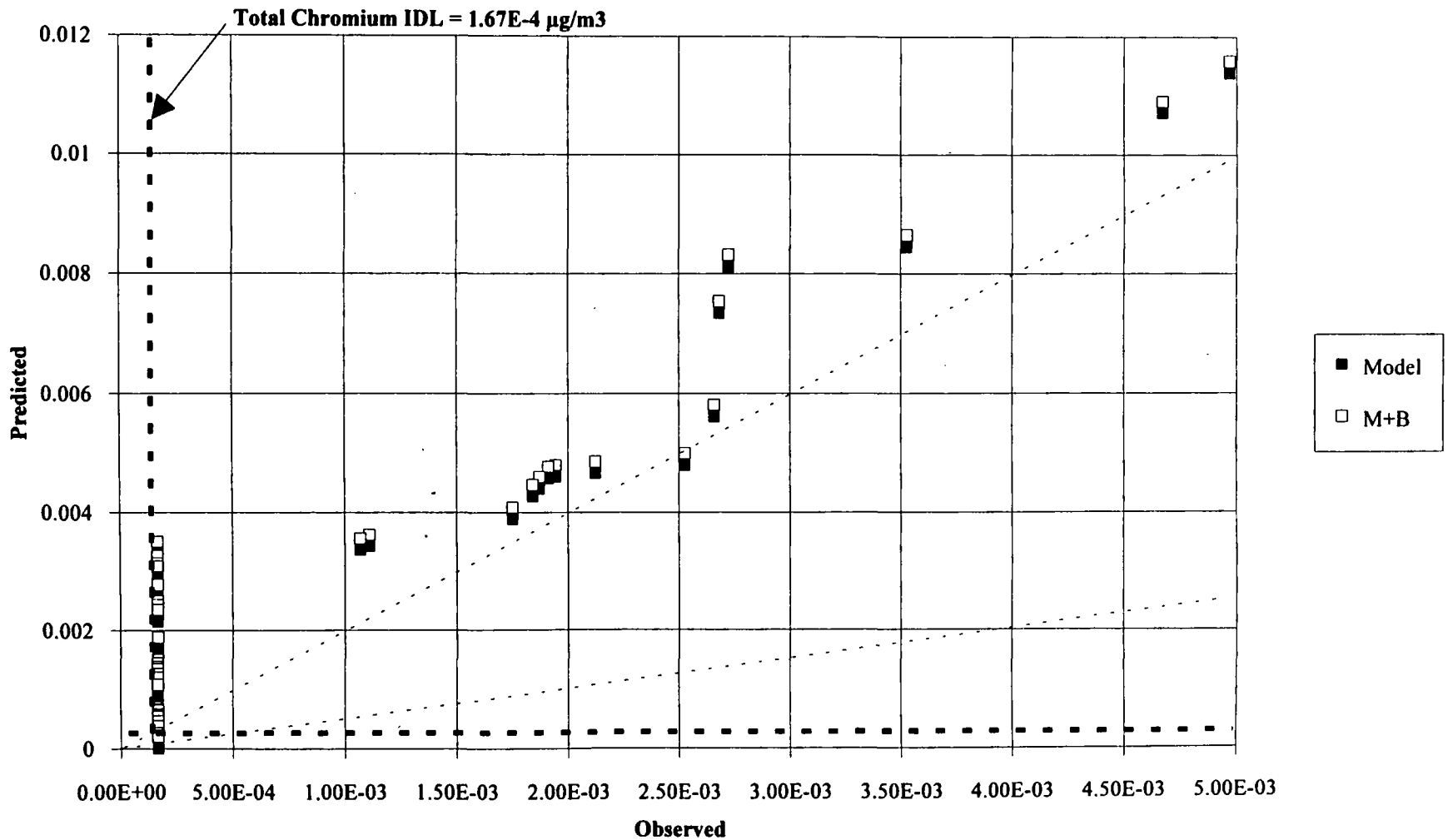


Figure AI-2-35
24-hour Total Chromium for Site 4 Oct. 1, 1993 to September 30, 1994

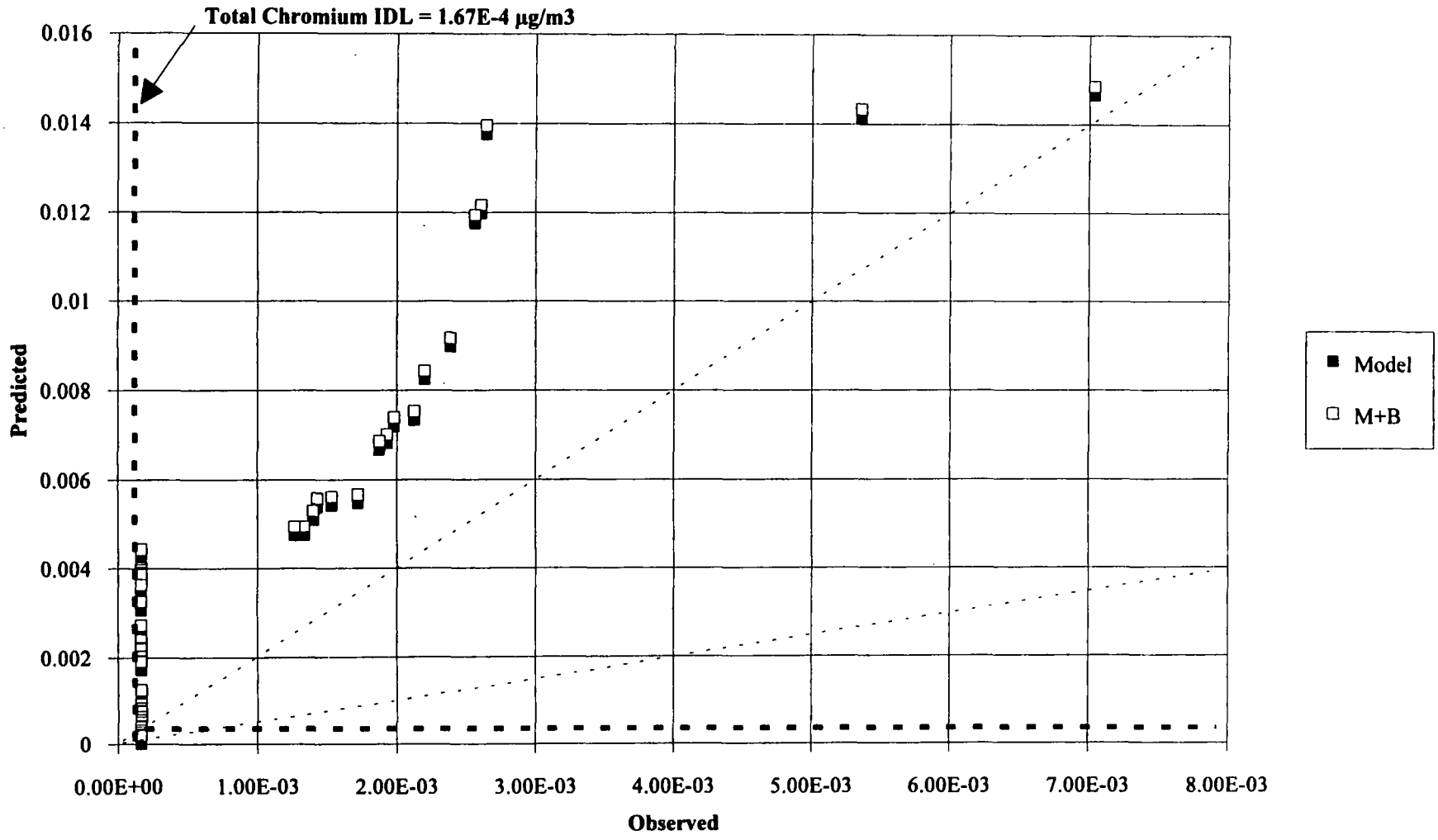


Figure AI-2-36
24-hour Total Chromium for Site 5 Oct. 1, 1993 to September 30, 1994

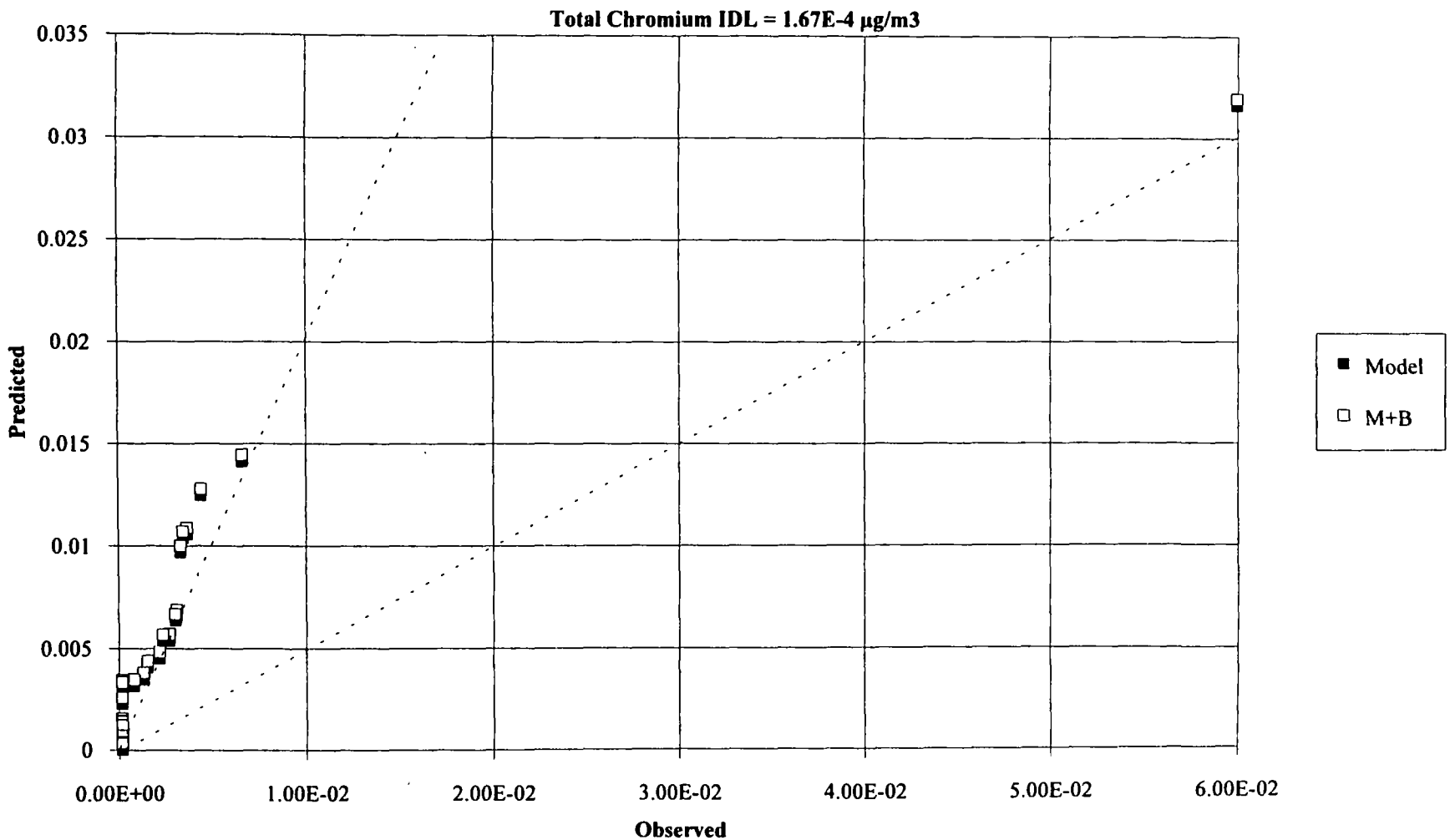


Figure AI-2-37
24-hour Total Chromium for Site 6 Oct. 1, 1993 to September 30, 1994

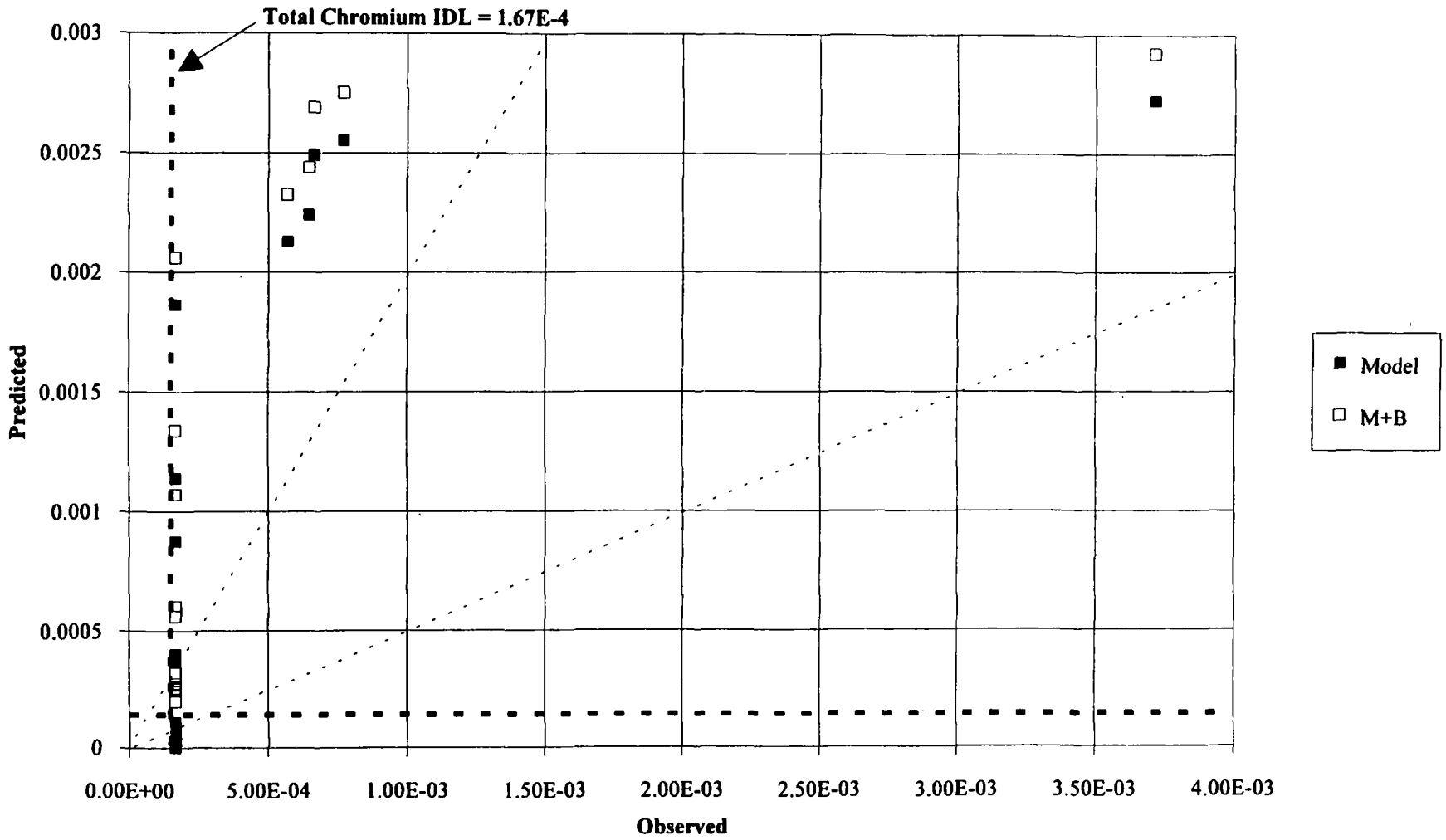


Figure AI-2-38
24-hour Total Chromium for Site 7 Oct. 1, 1993 to September 30, 1994

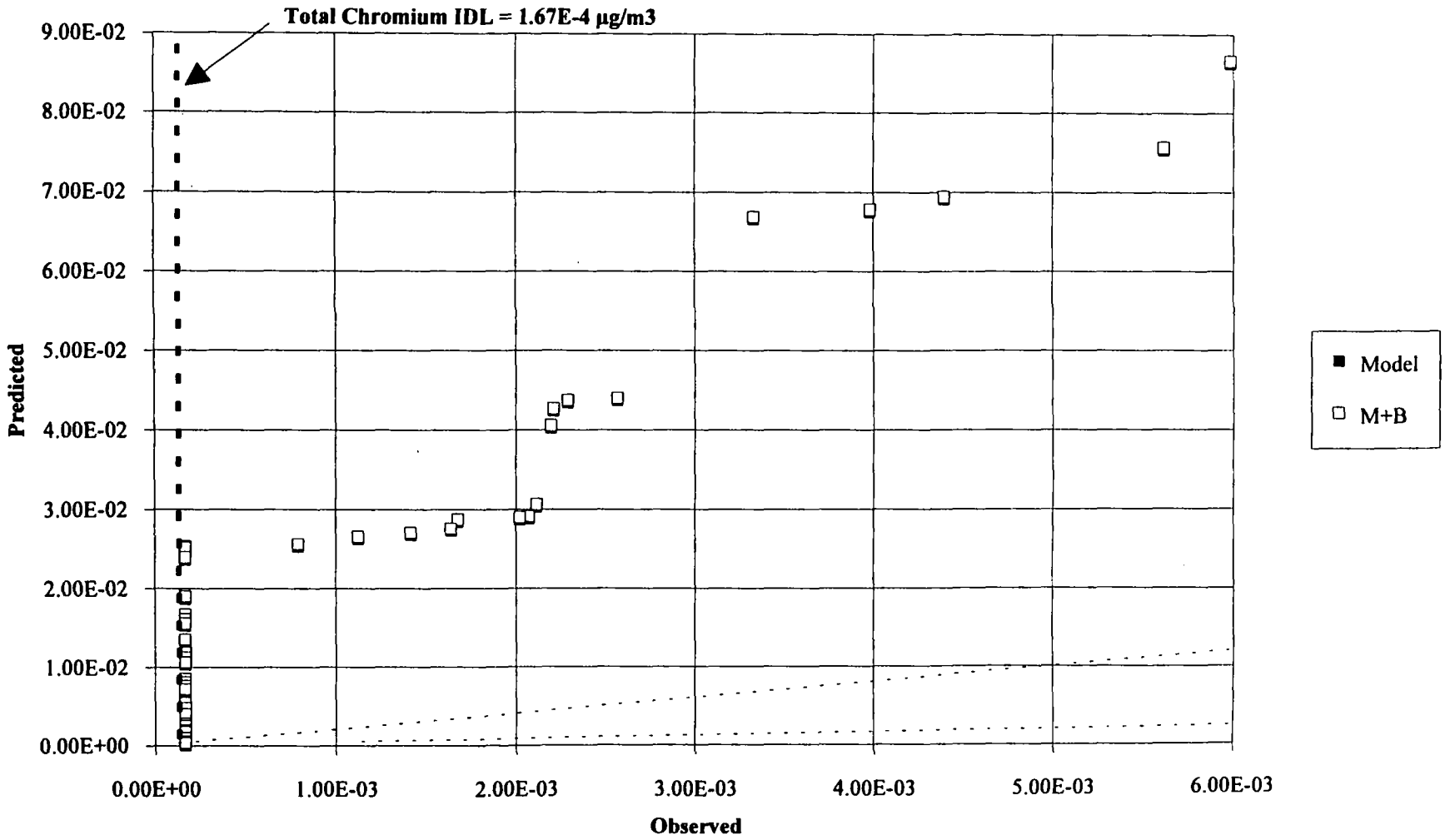


Figure AI-2-39
24-hour Total Fluorides for Site 1 Oct. 1, 1993 to March 29, 1994

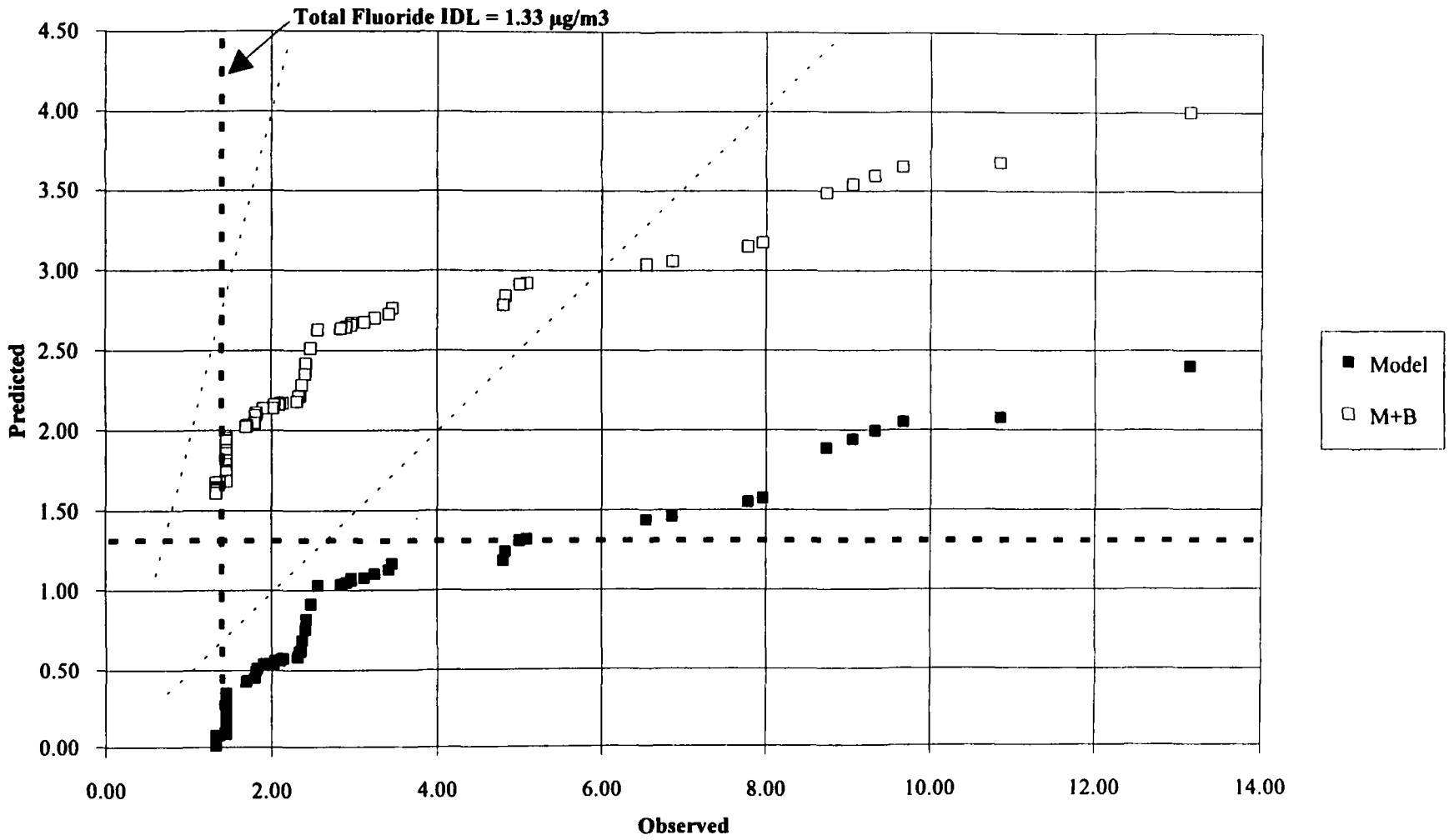


Figure AI-2-40
24-hour Total Fluorides for Site 2 Oct. 1, 1993 to March 29, 1994

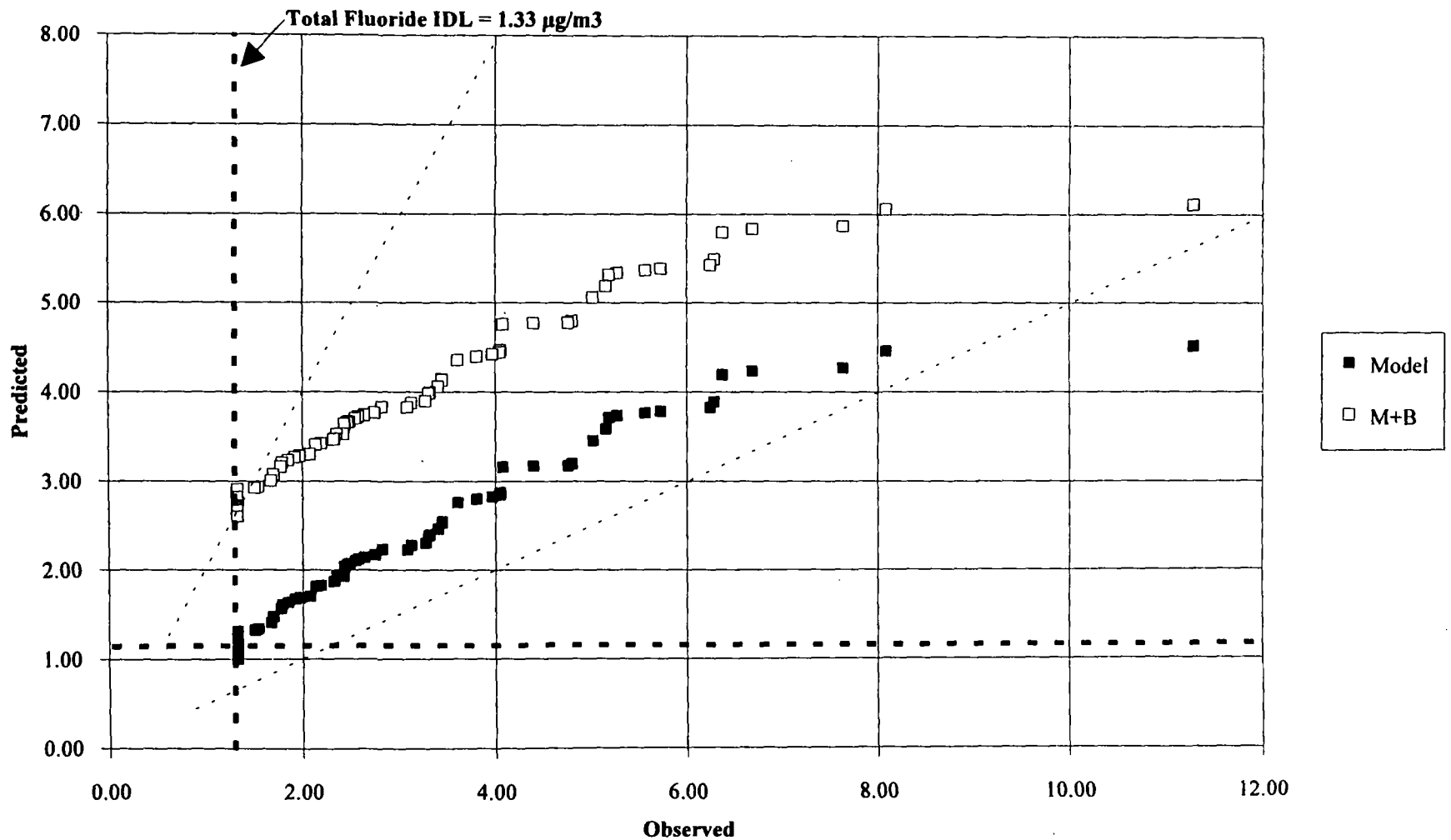


Figure AI-2-41
24-hour Total Fluorides for Site 6 Oct. 1, 1993 to March 29, 1994

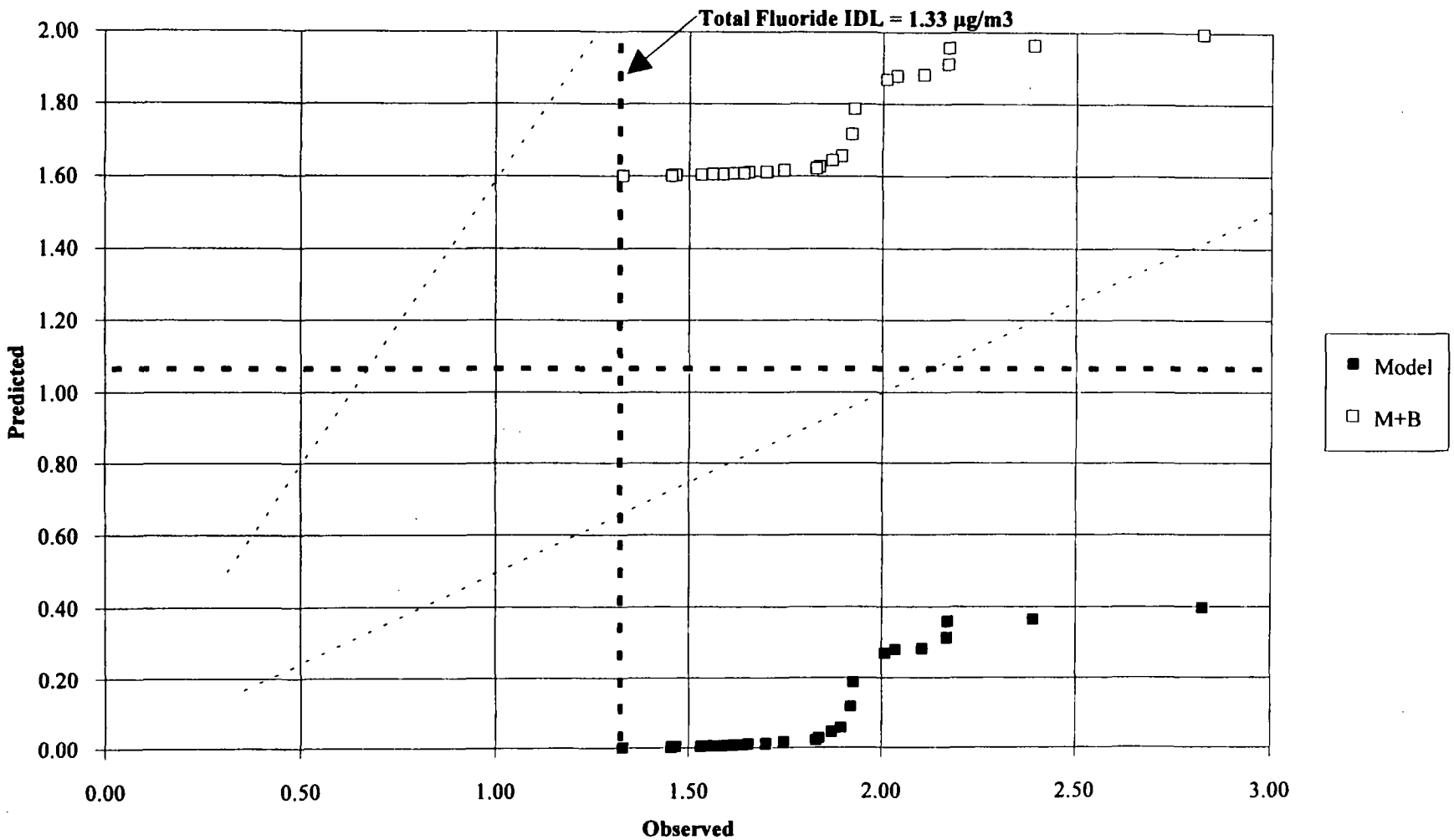


Figure AI-2-42
24-hour Total Fluorides for Site 7 Oct. 1, 1993 to March 29, 1994

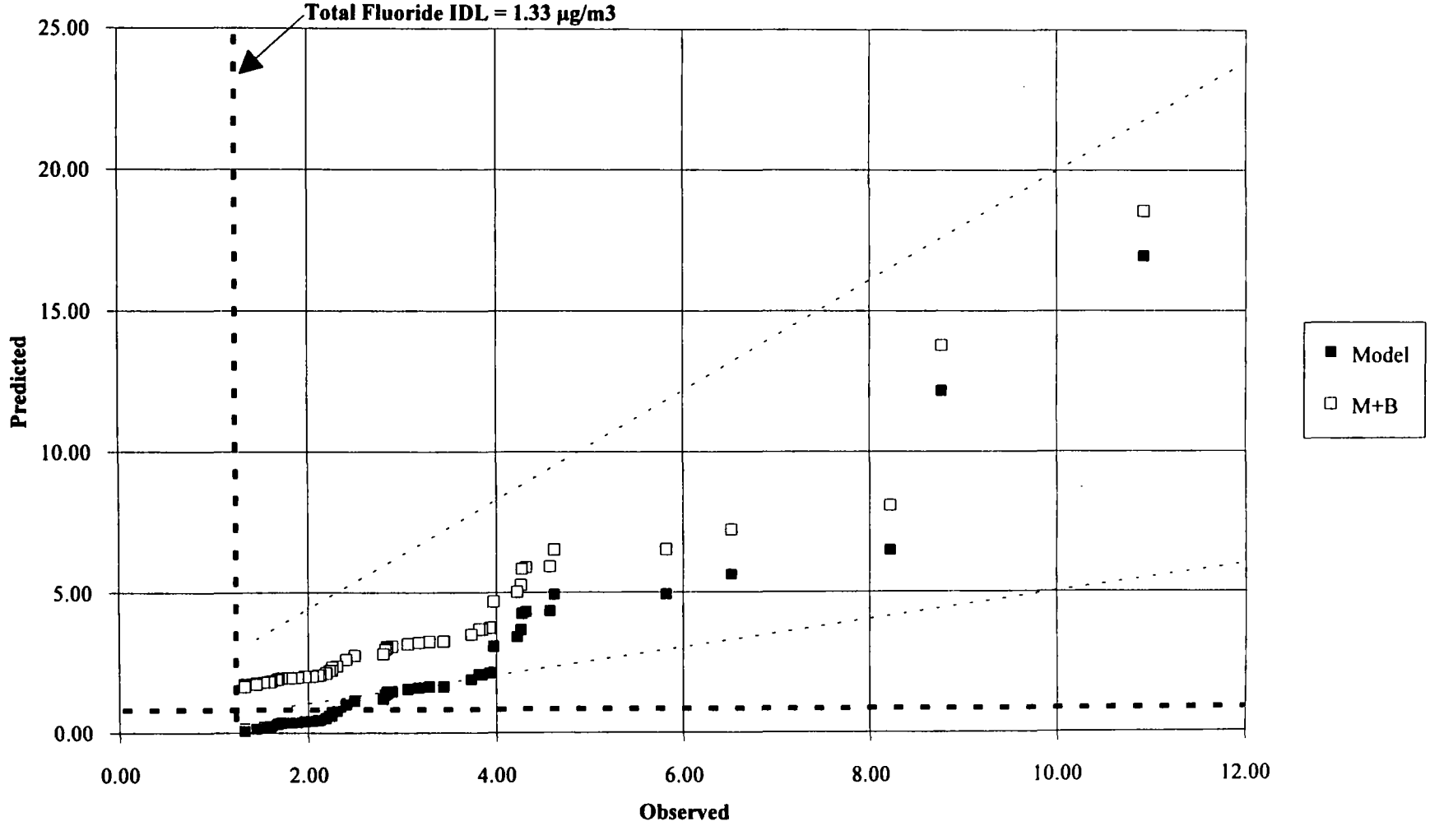


Figure AI-2-43
24-hour Nickel for Site 1 Oct. 1, 1993 to September 30, 1994

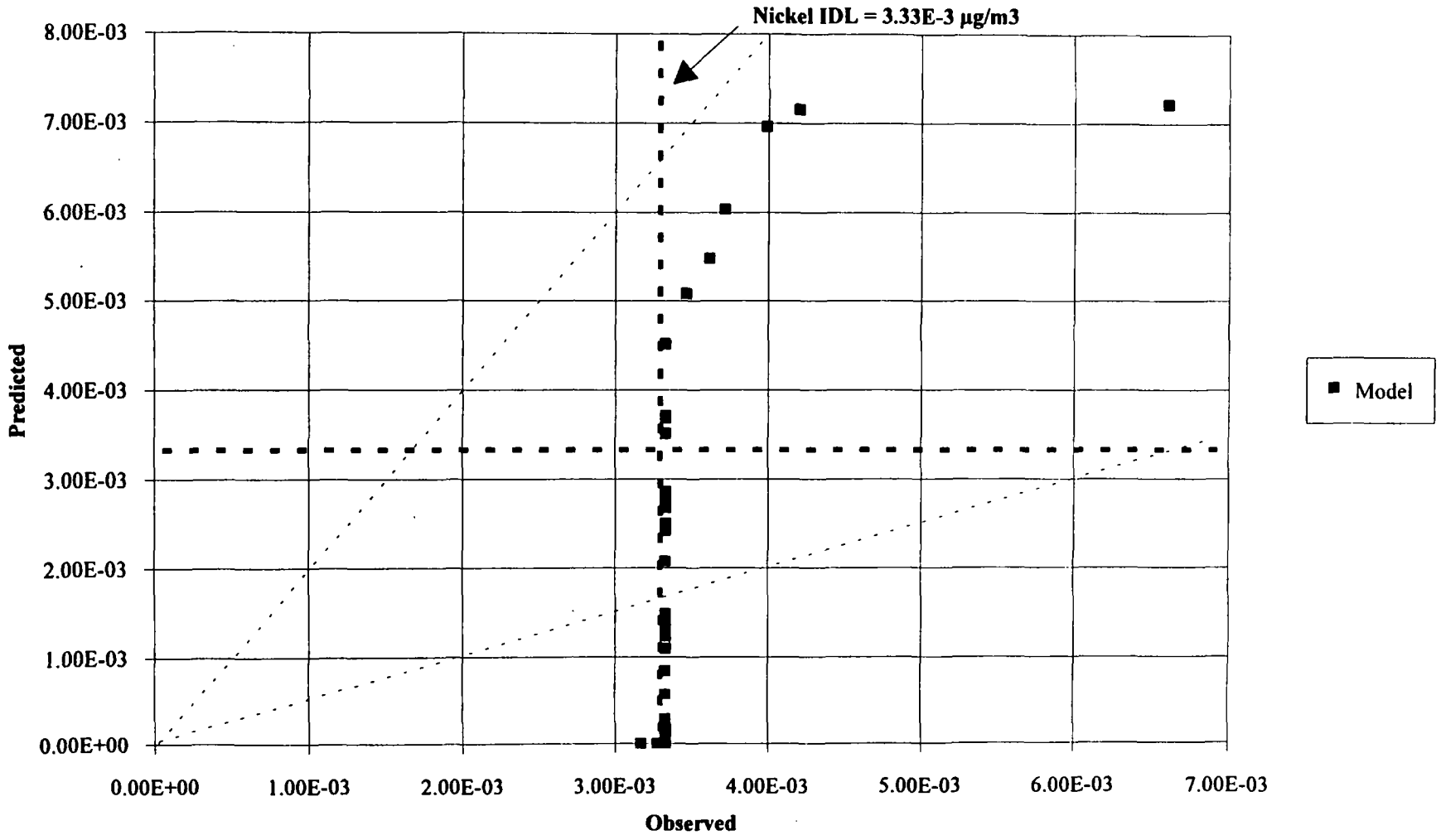


Figure AI-2-44
24-hour Nickel for Site 2 Oct. 1, 1993 to September 30, 1994

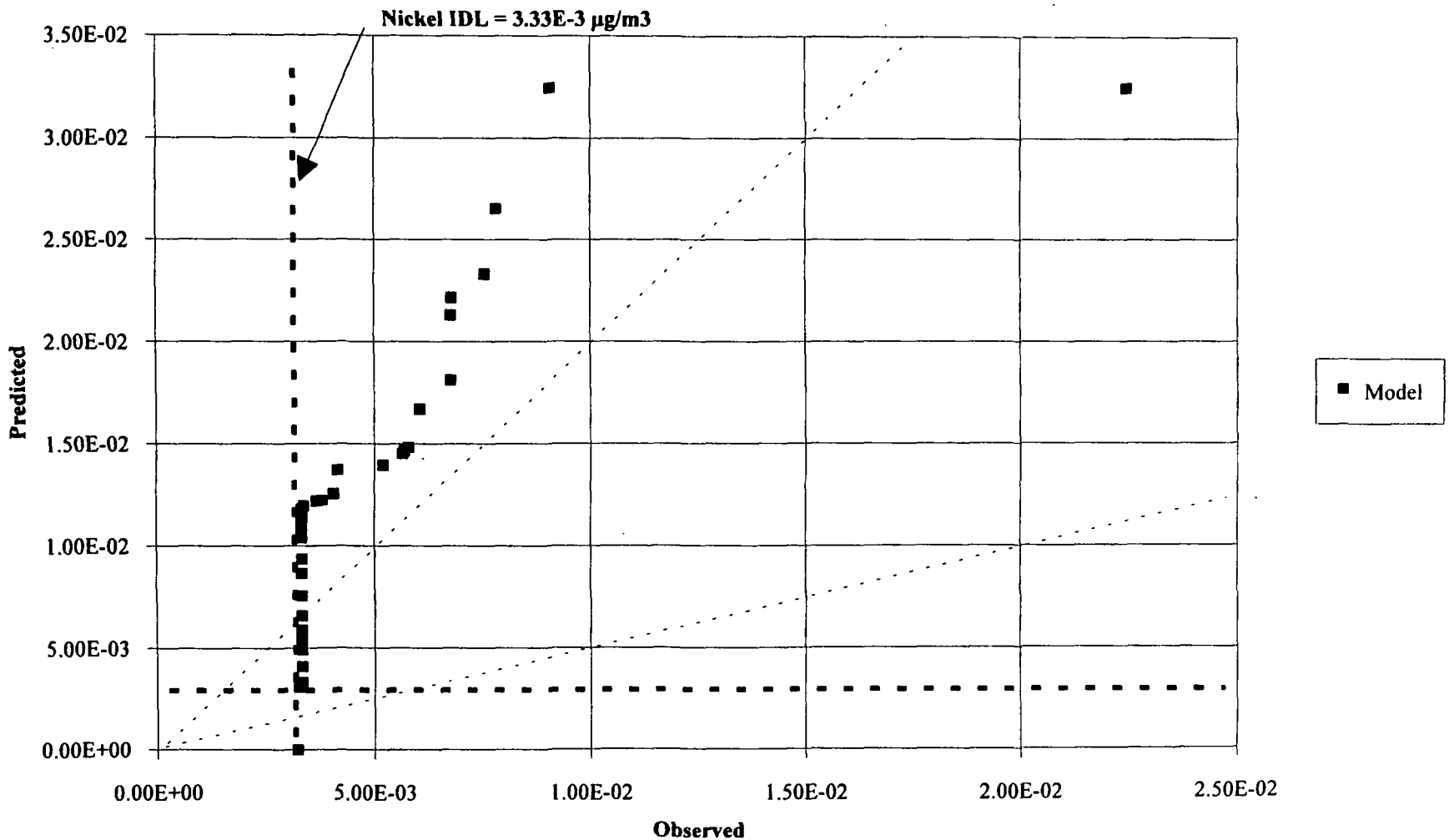


Figure AI-2-45
24-hour Nickel for Site 3 Oct. 1, 1993 to June 24, 1994

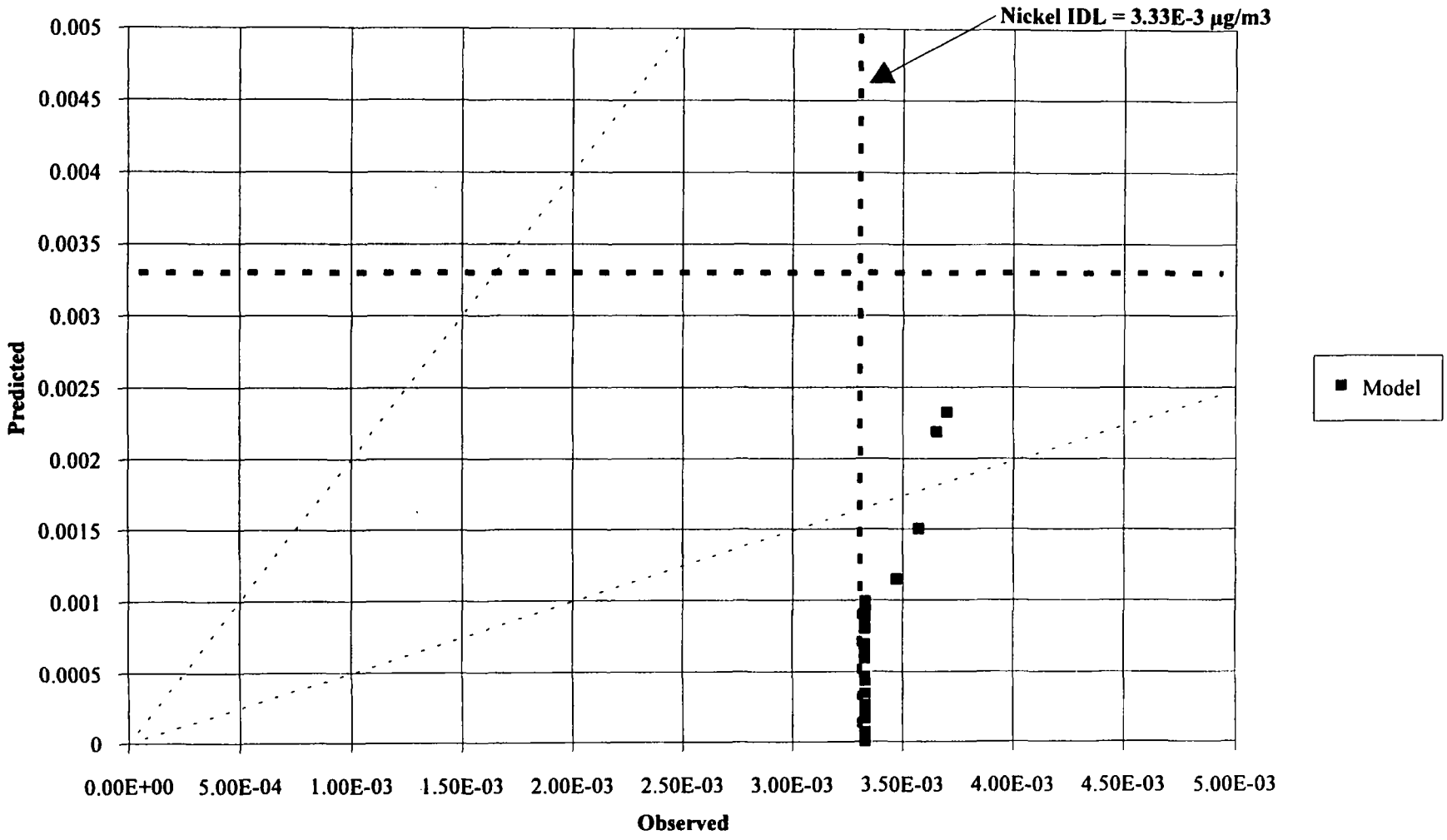


Figure AI-2-46
24-hour Nickel for Site 4 Oct. 1, 1993 to September 30, 1994

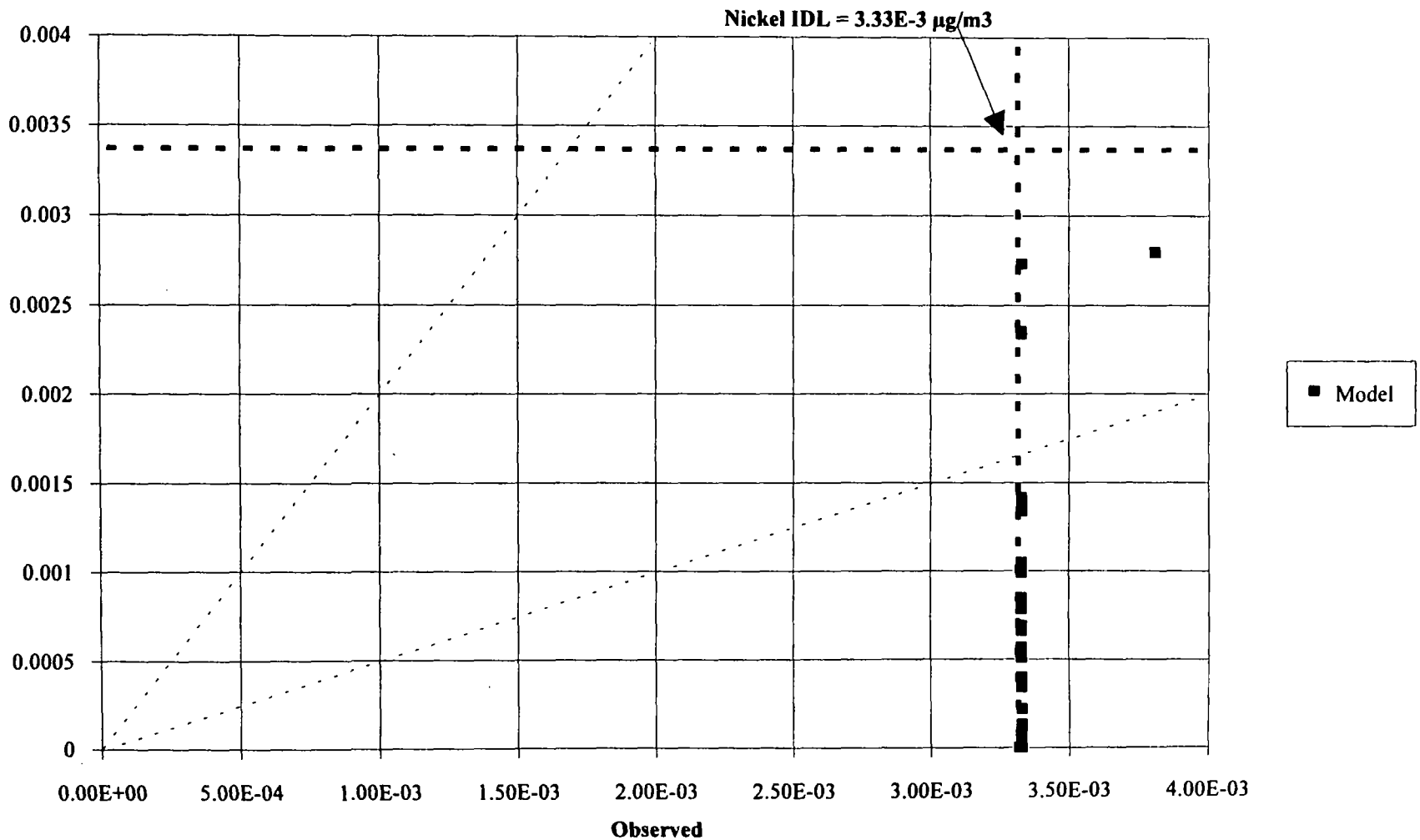


Figure AI-2-47
24-hour Nickel for Site 5 Oct. 1, 1993 to September 30, 1994

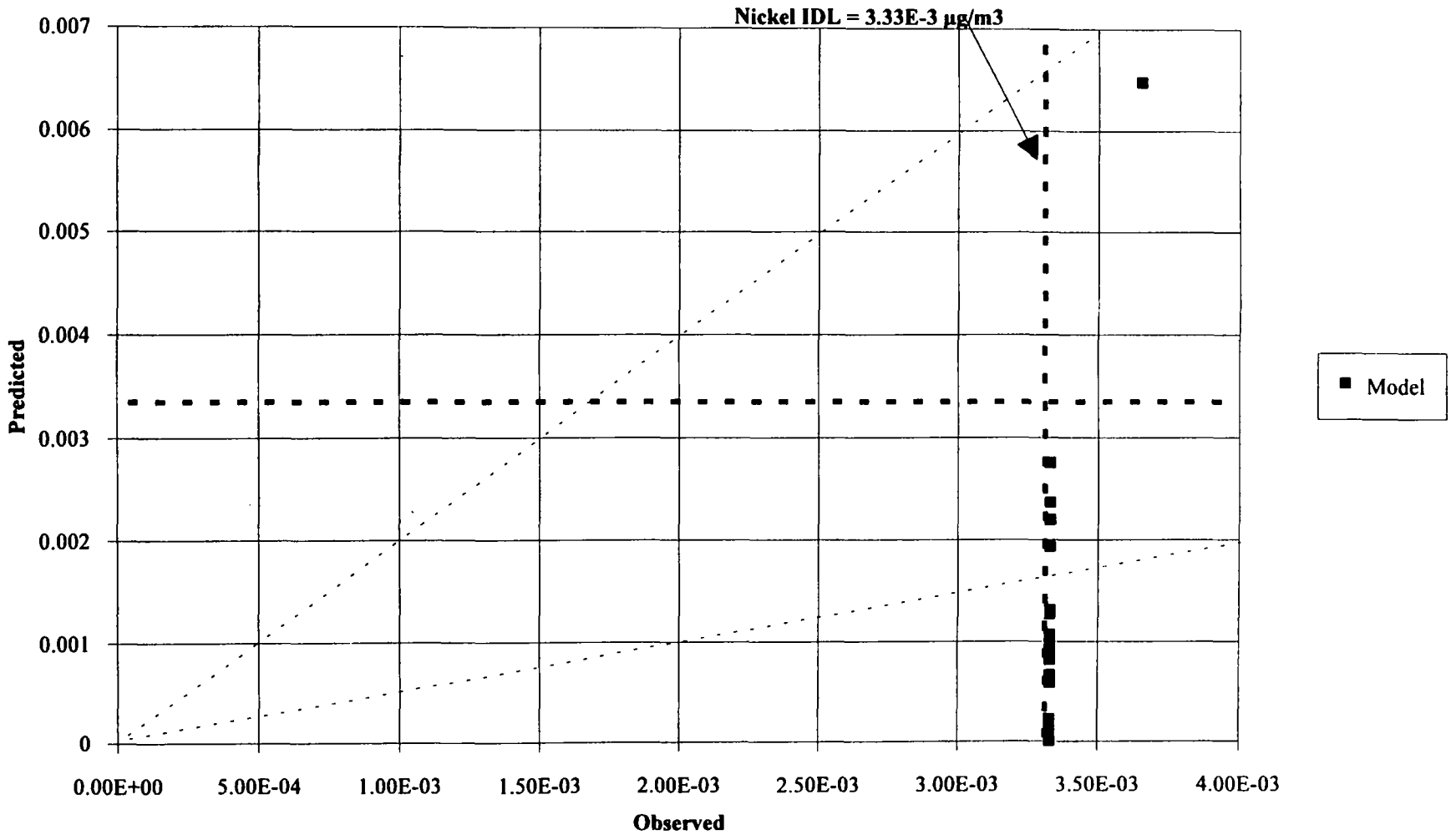


Figure AI-2-48
24-hour Nickel for Site 6 Oct. 1, 1993 to September 30, 1994

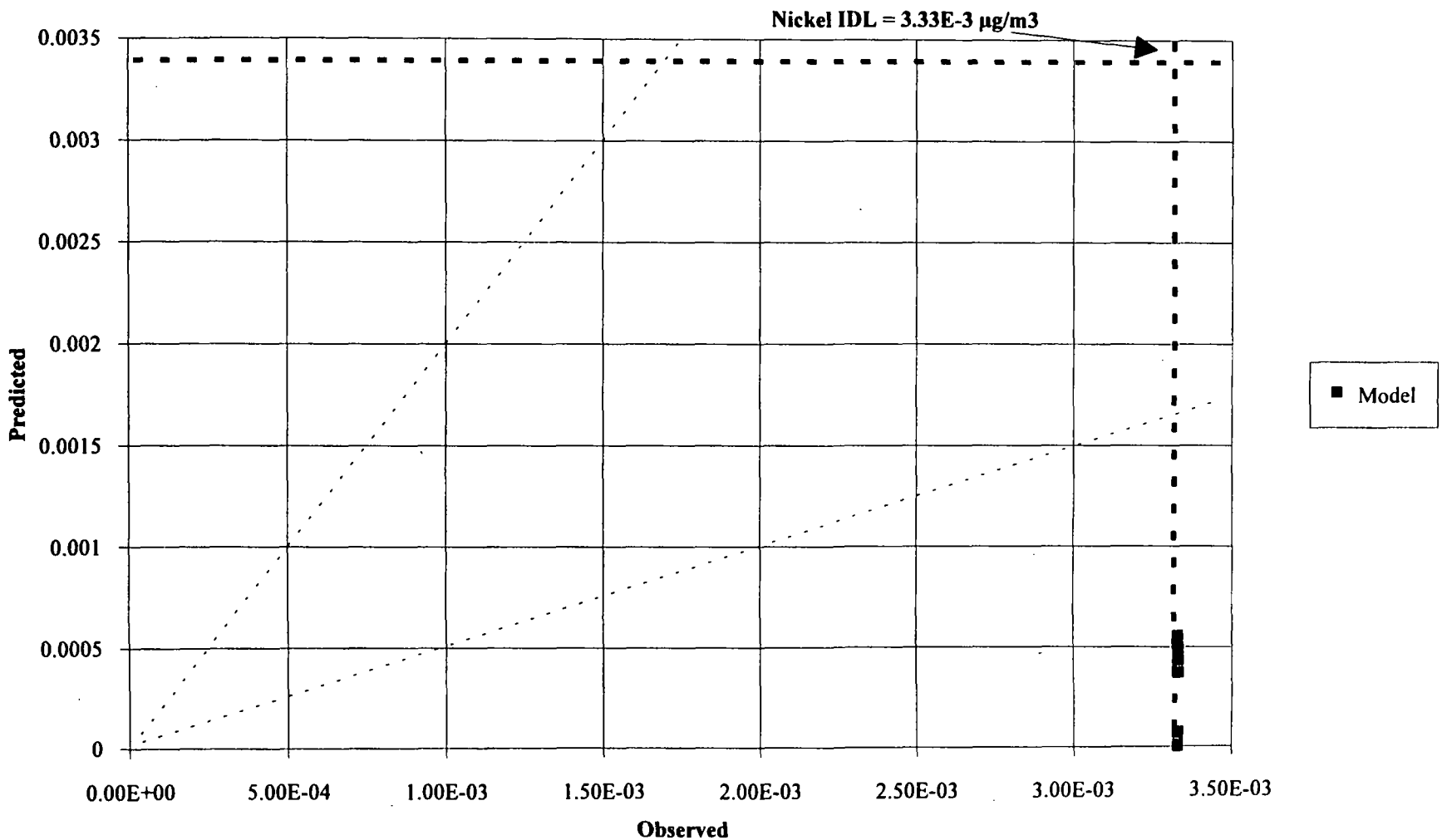


Figure AI-2-49
24-hour Nickel for Site 7 Oct. 1, 1993 to September 30, 1994

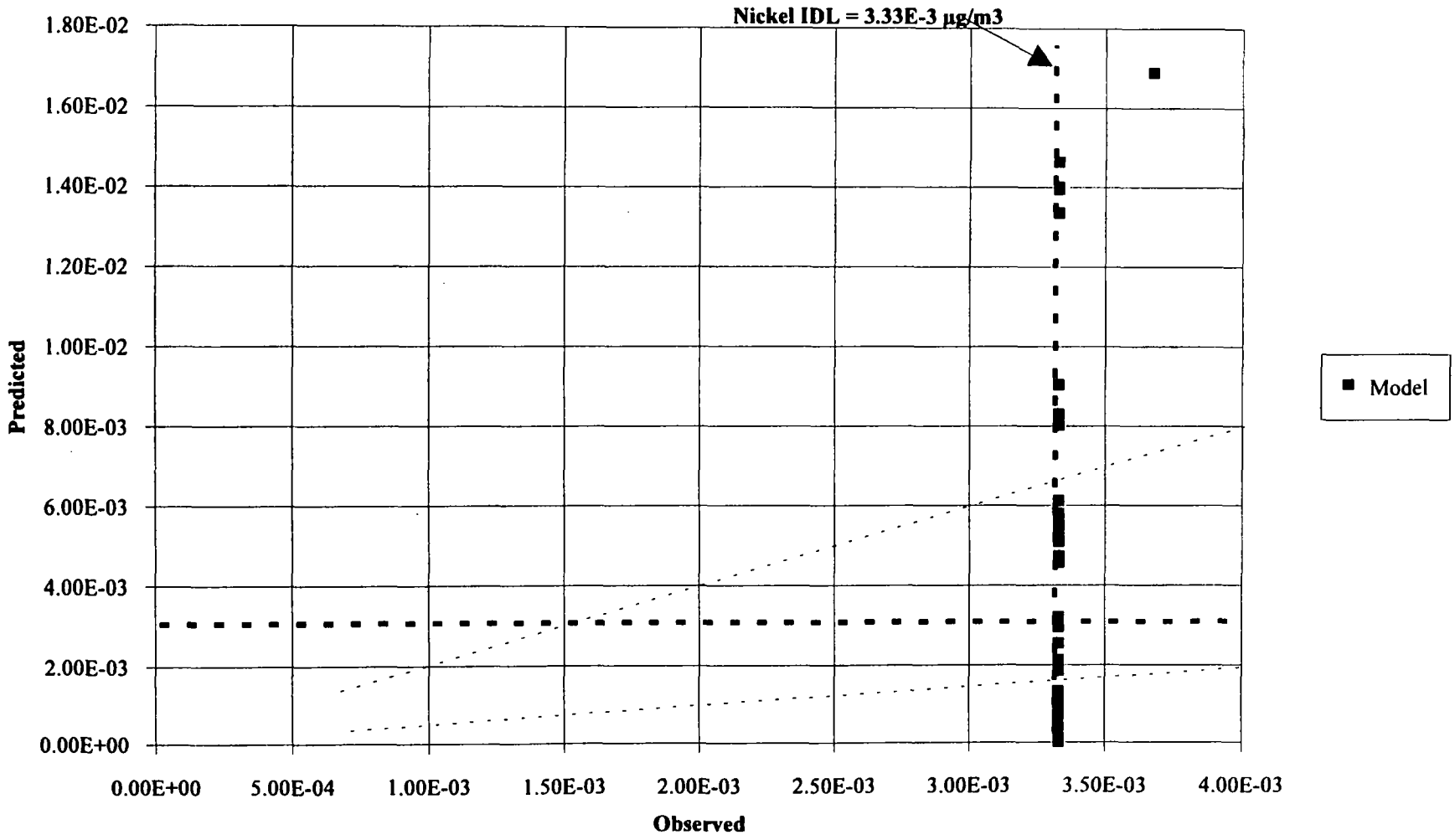


Figure AI-2-50
24-hour Total Phosphorus for Site 1 Oct. 1, 1993 to September 30, 1994

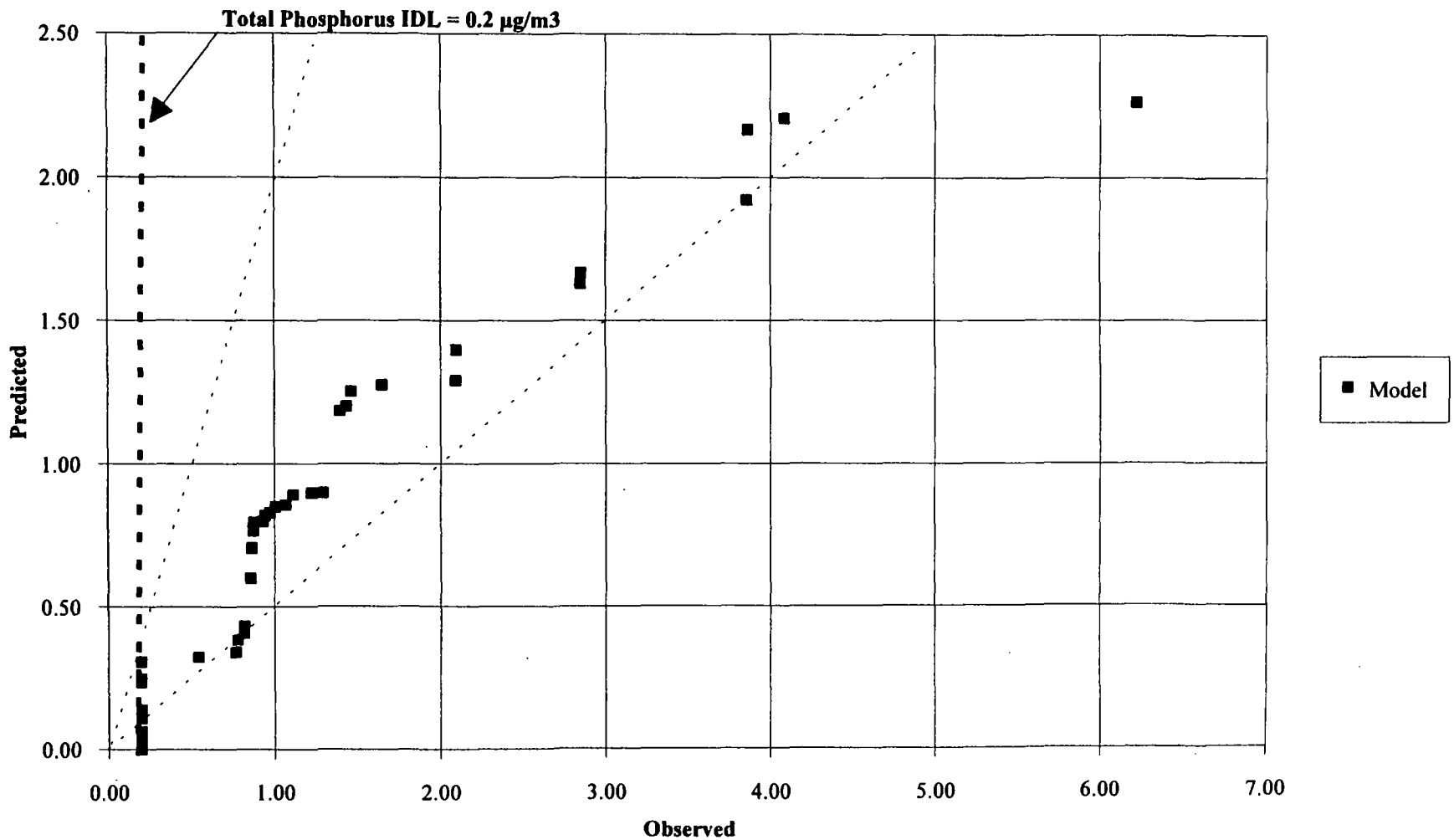


Figure AI-2-51
24-hour Total Phosphorus for Site 2 Oct. 1, 1993 to September 30, 1994

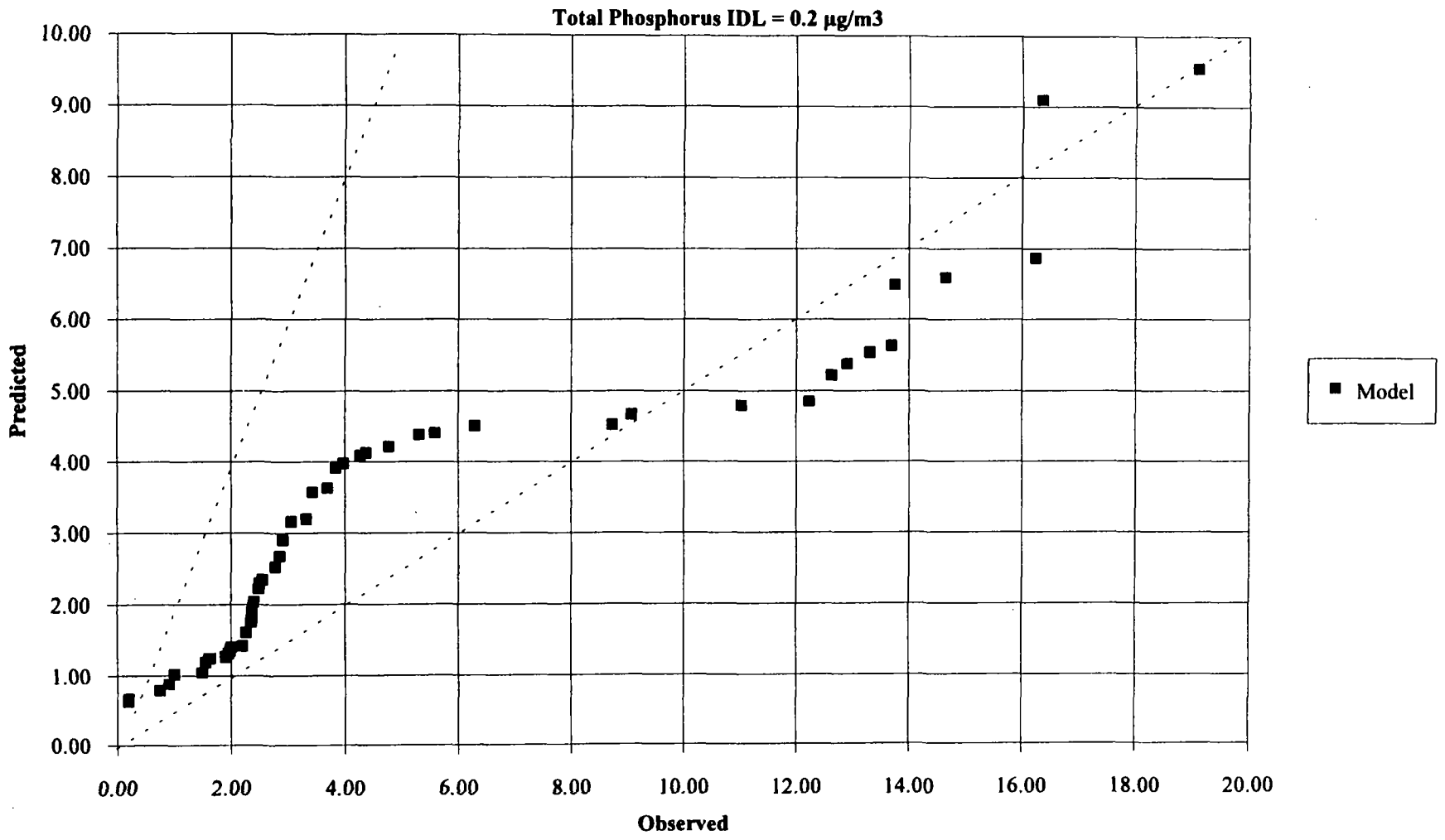


Figure AI-2-52
24-hour Total Phosphorus for Site 3 Oct. 1, 1993 to June 24, 1994

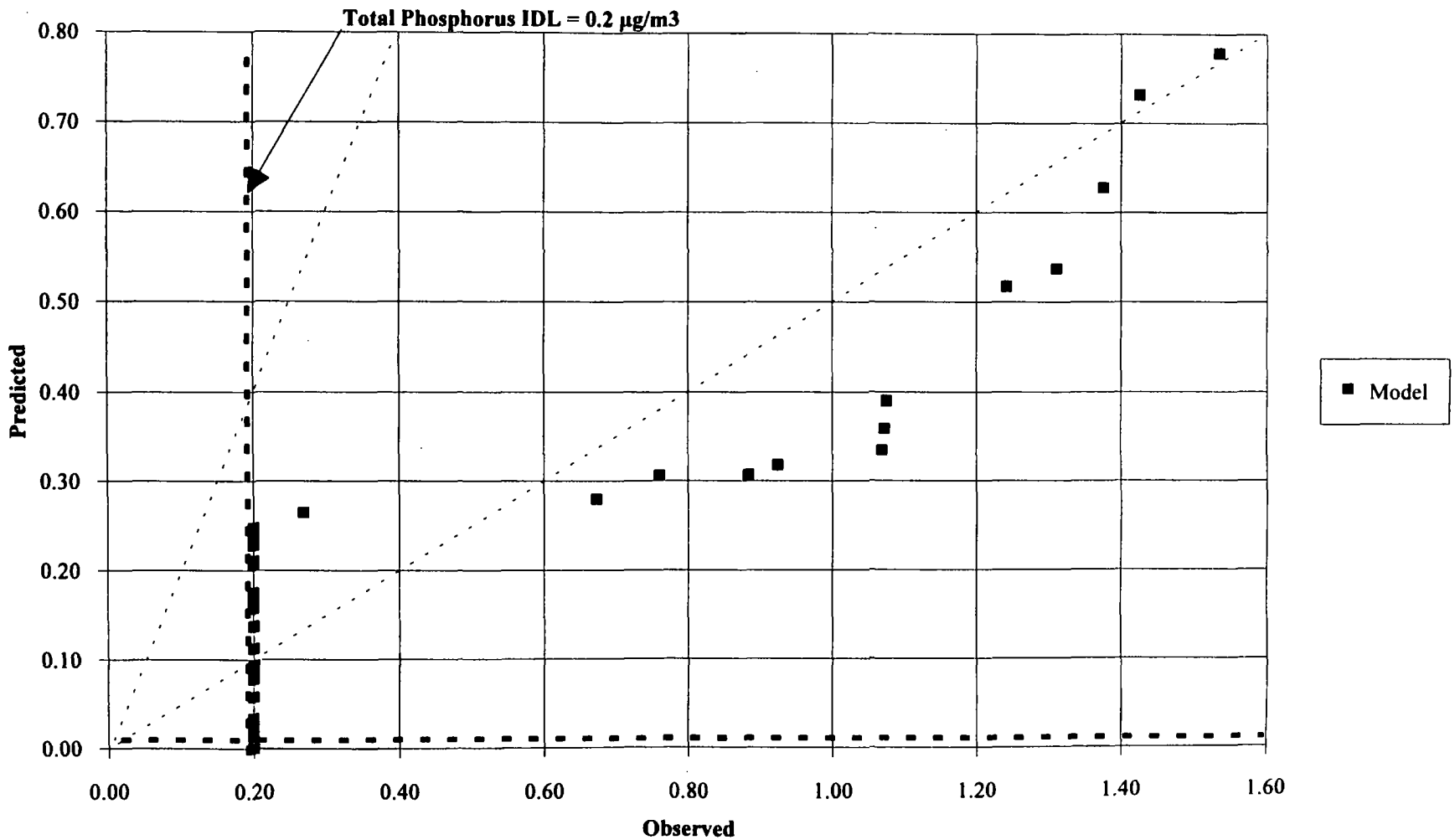


Figure AI-2-53
24-hour Total Phosphorus for Site 4 Oct. 1, 1993 to September 30, 1994

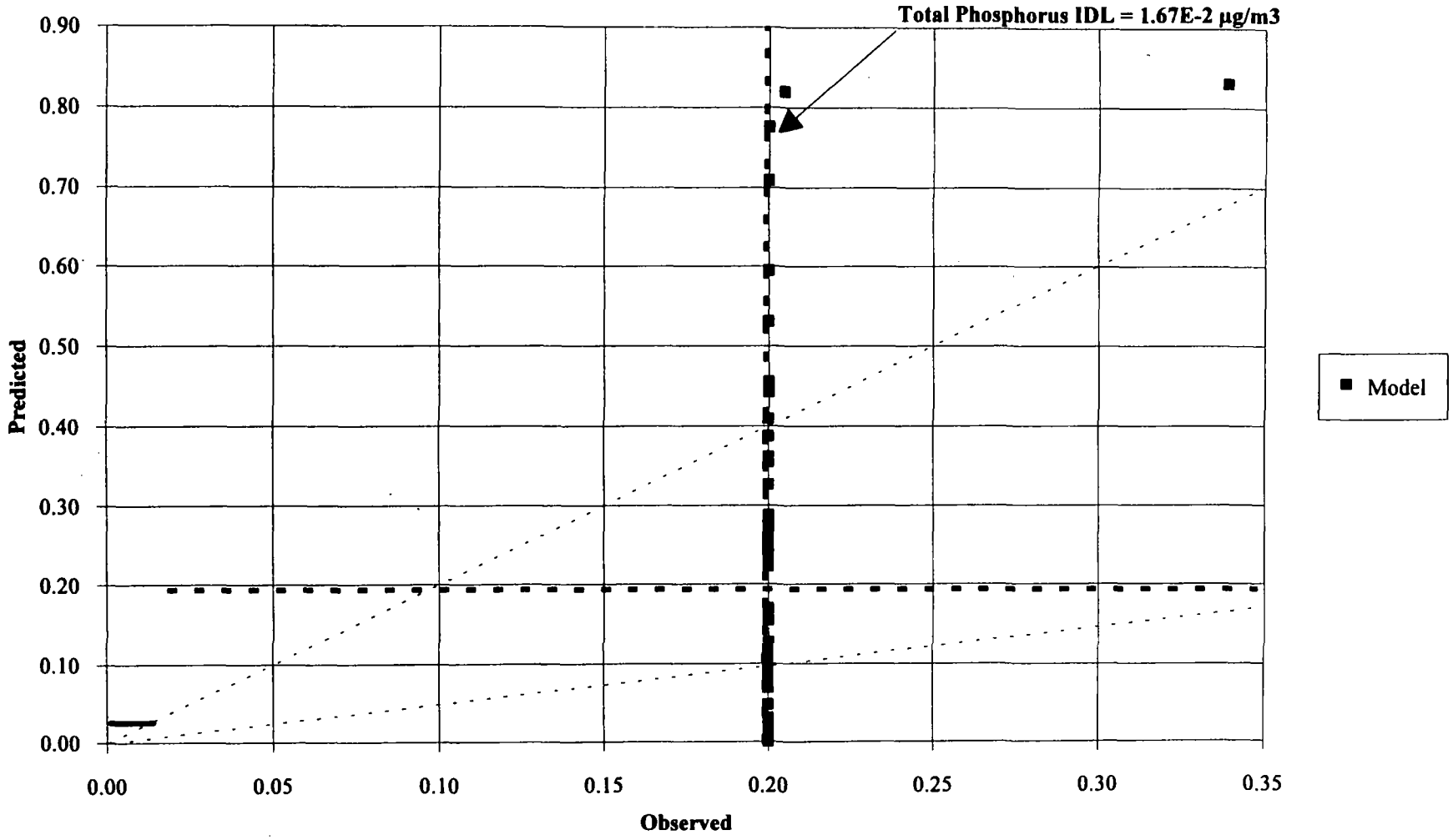


Figure AI-2-54
24-hour Total Phosphorus for Site 5 Oct. 1, 1993 to September 30, 1994

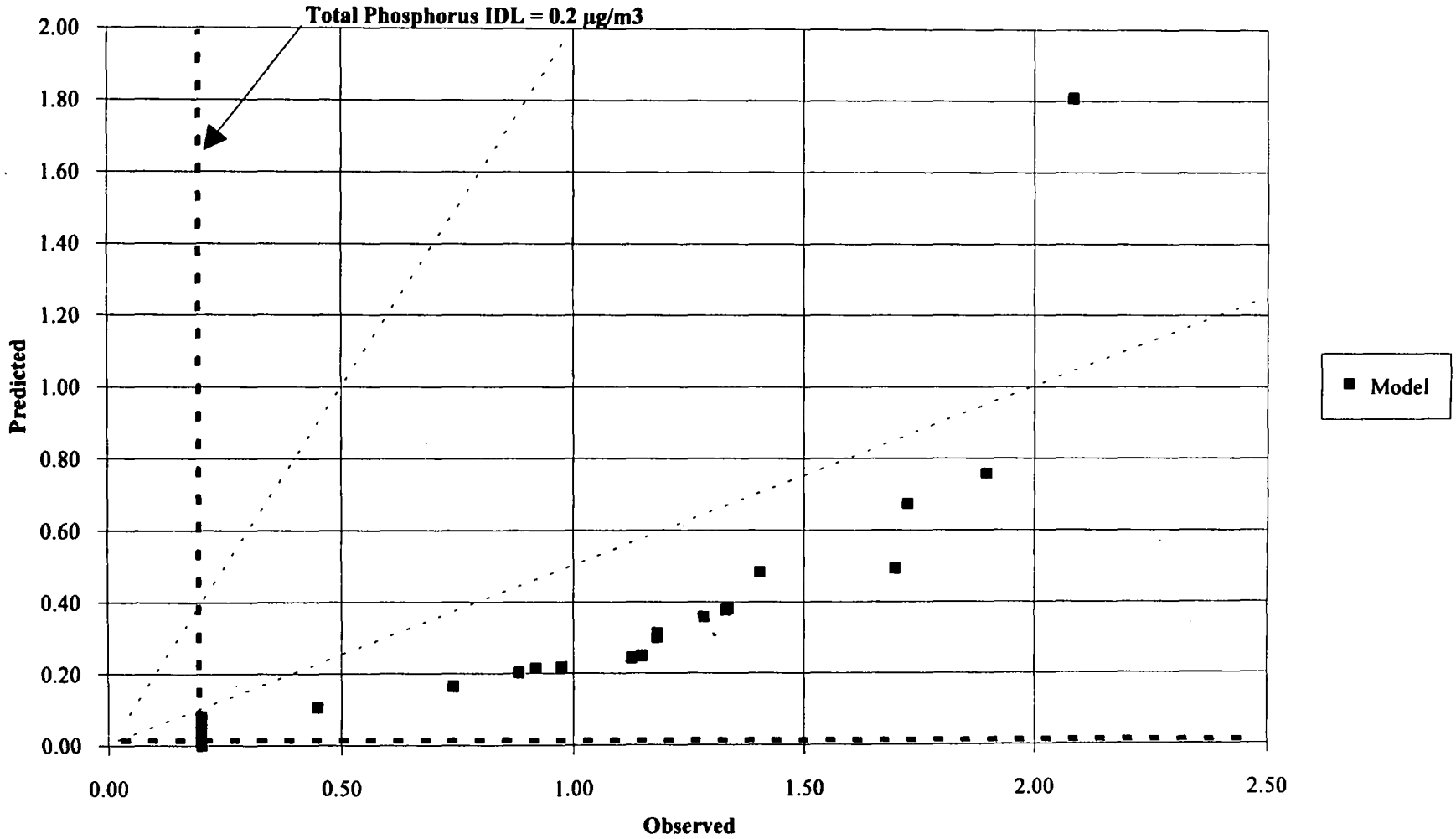


Figure AI-2-55
24-hour Total Phosphorus for Site 6 Oct. 1, 1993 to September 30, 1994

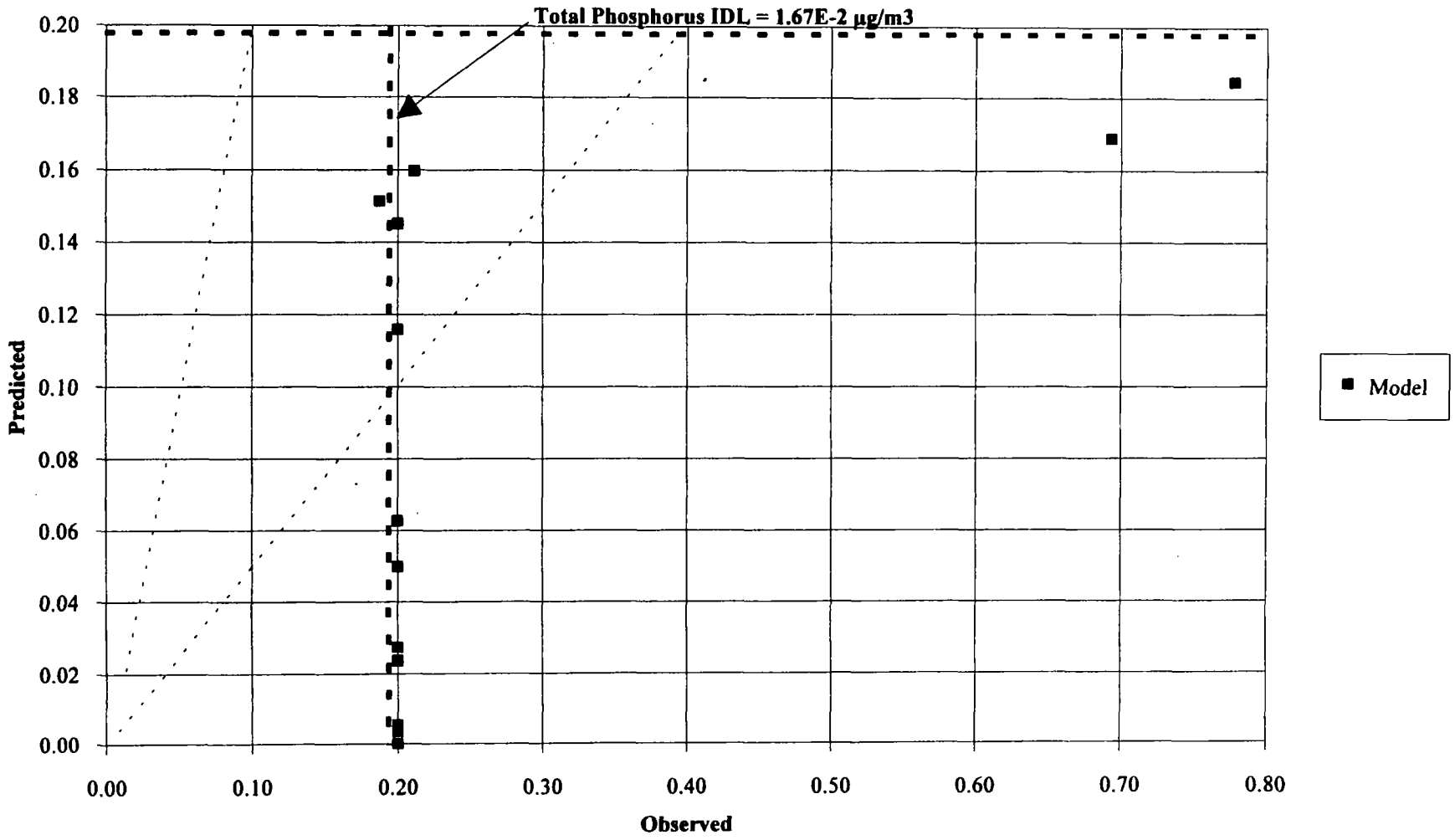


Figure AI-2-56
24-hour Total Phosphorus for Site 7 Oct. 1, 1993 to September 30, 1994

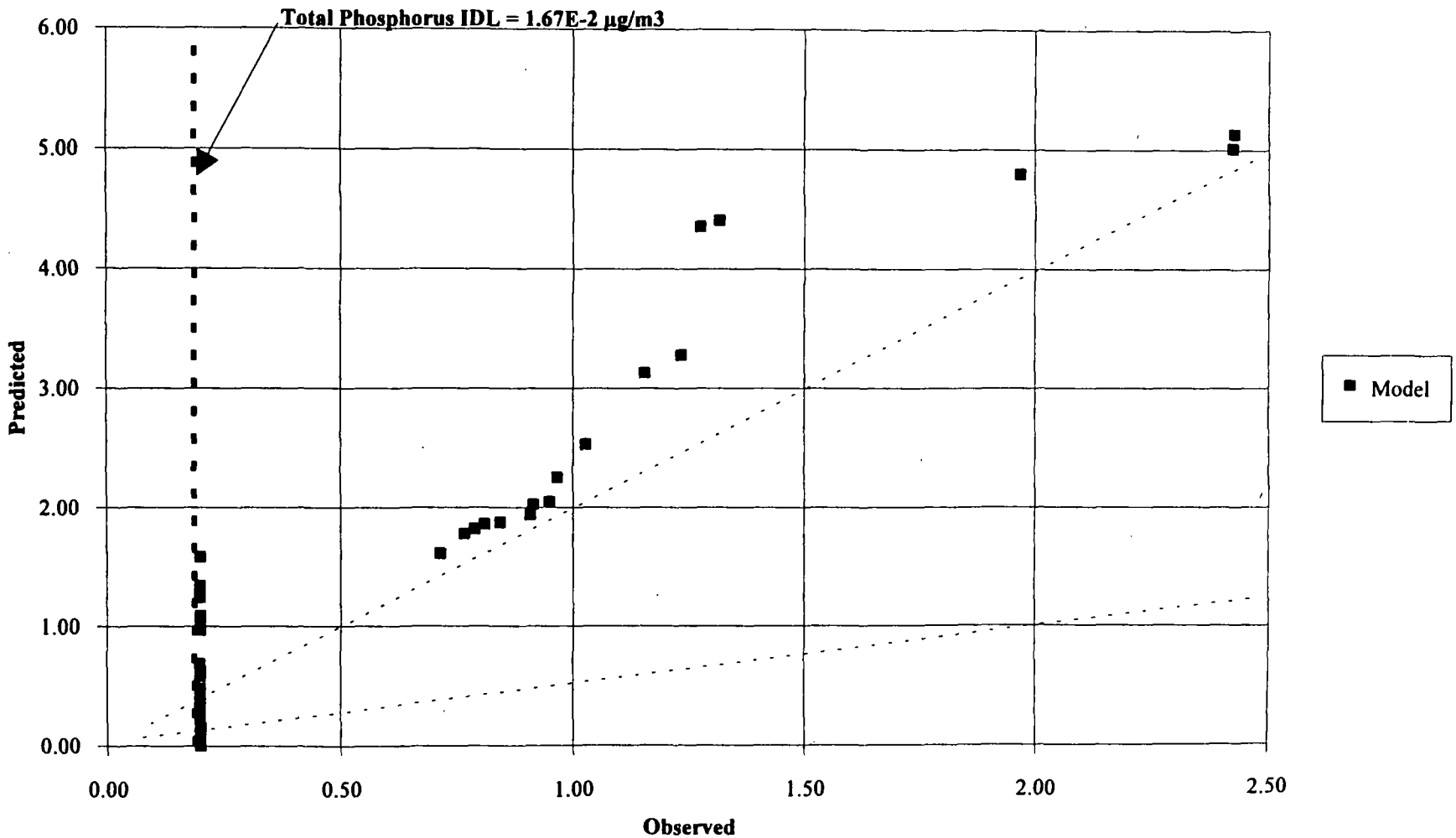


Figure AI-2-57
24-hour Lead-210 for Site 1 Oct. 1, 1993 to September 30, 1994

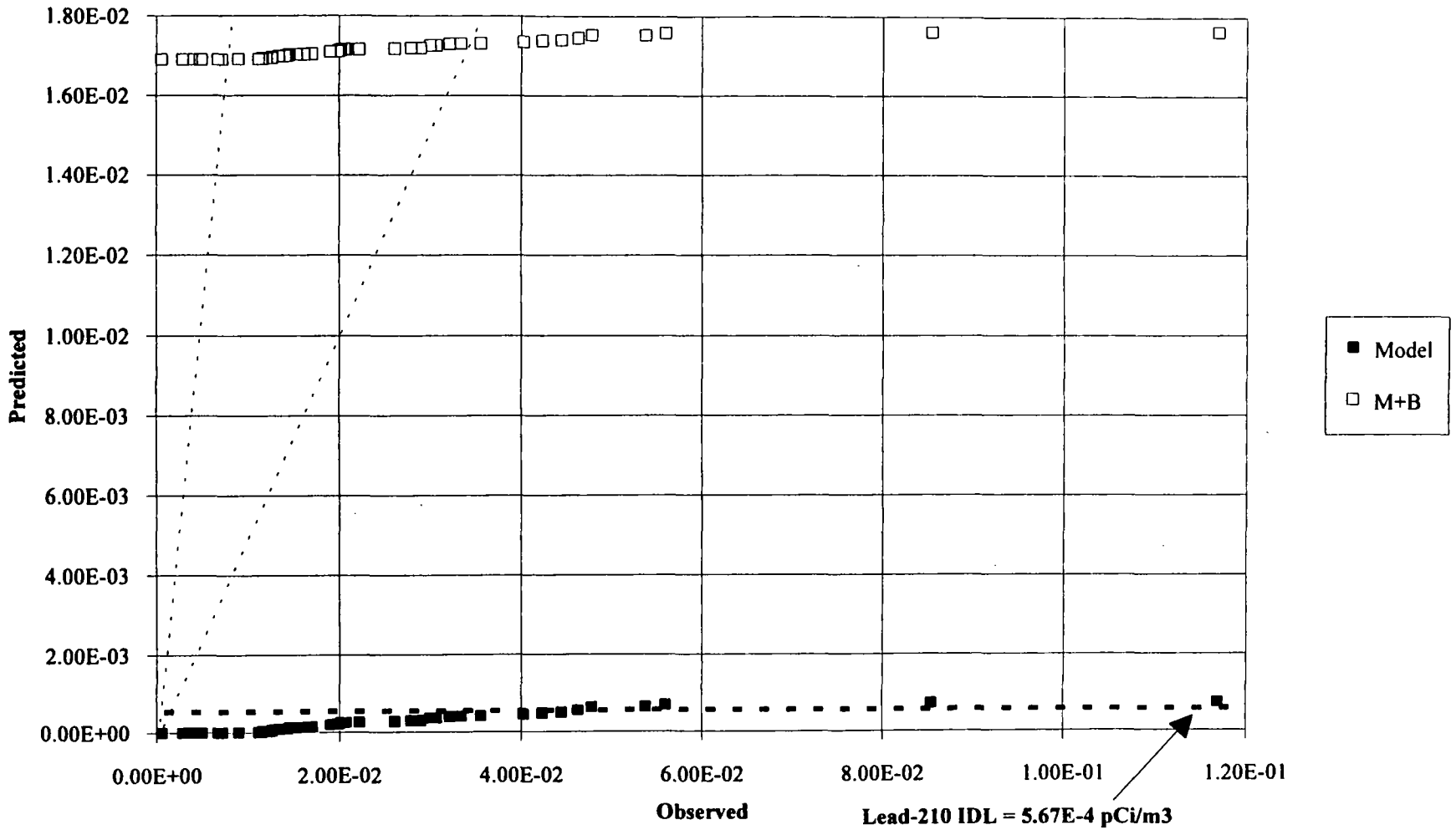


Figure AI-2-58
24-hour Lead-210 for Site 2 Oct. 1, 1993 to September 30, 1994

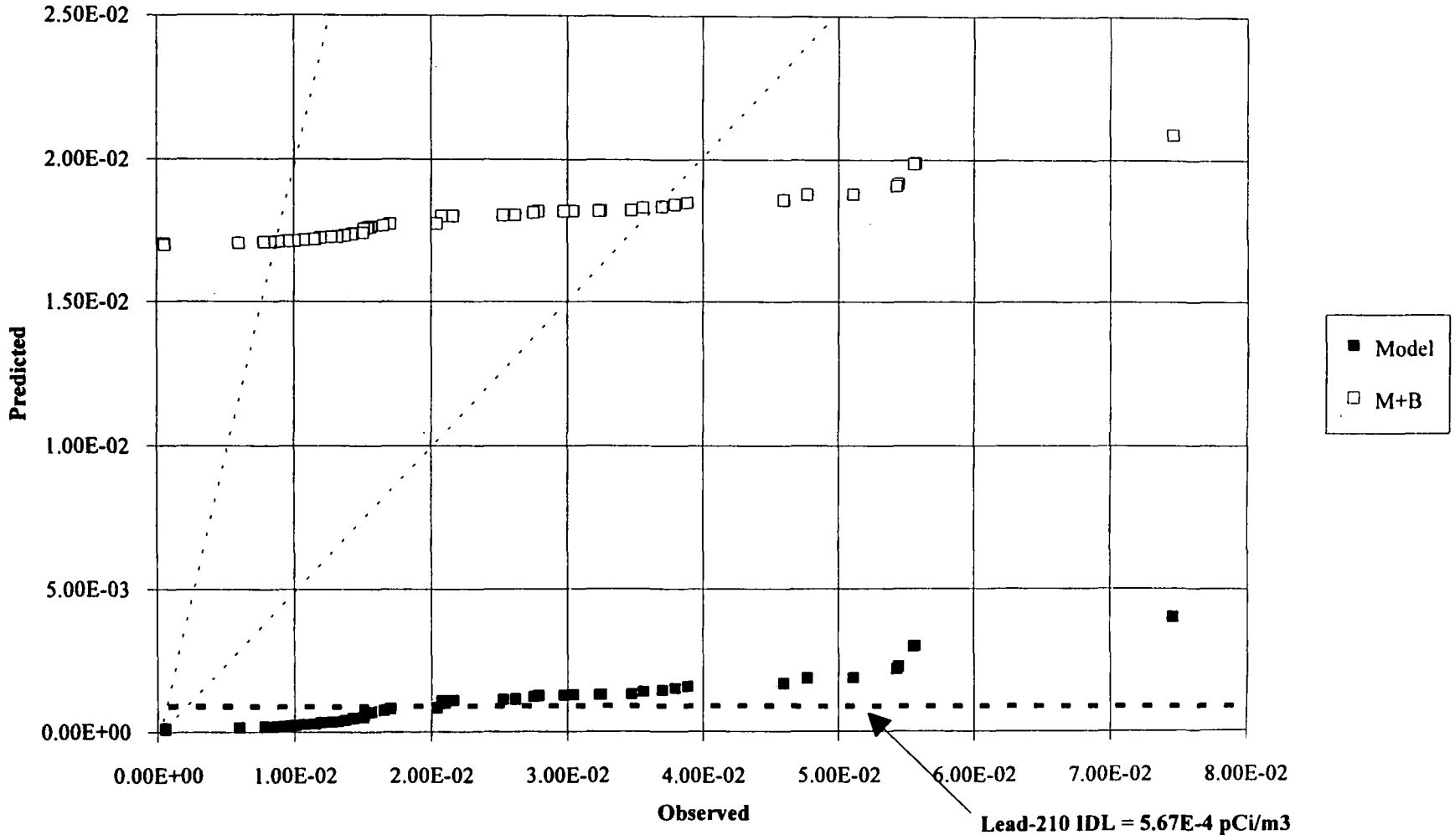


Figure AI-2-59
24-hour Lead-210 for Site 3 Oct. 1, 1993 to June 24, 1994

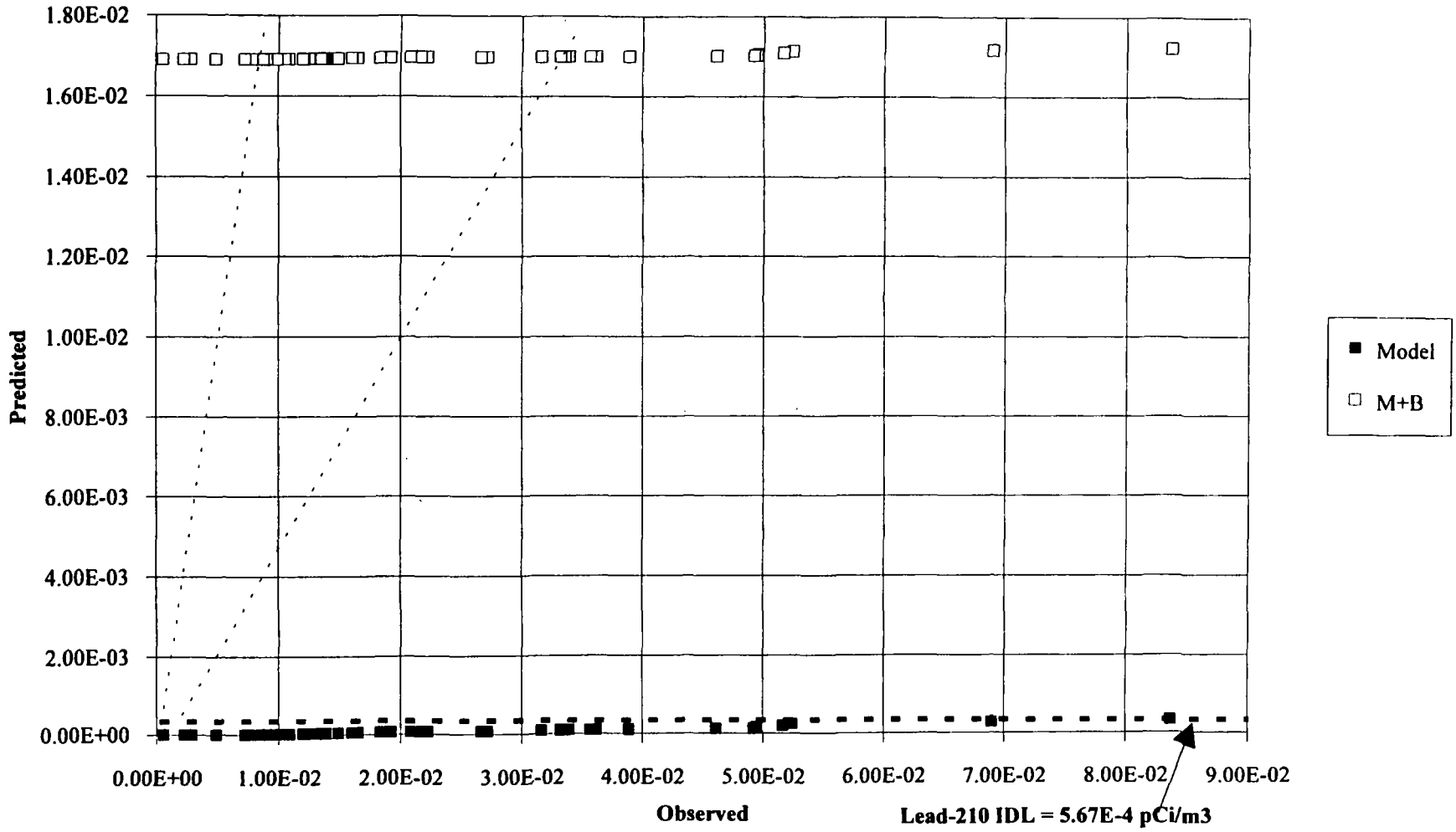


Figure AI-2-60
24-hour Lead-210 for Site 4 Oct. 1, 1993 to September 30, 1994

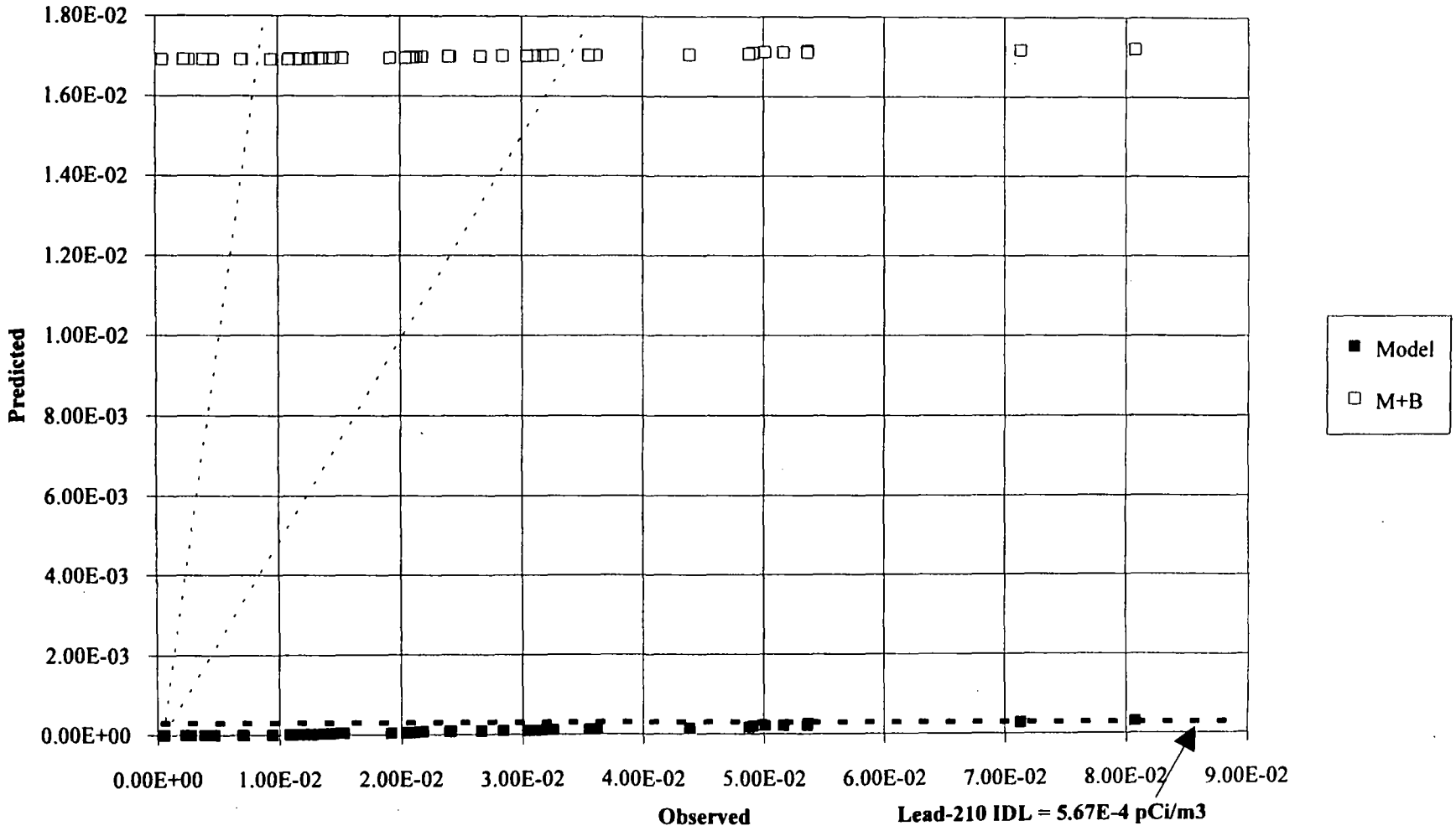


Figure AI-2-61
24-hour Lead-210 for Site 5 Oct. 1, 1993 to September 30, 1994

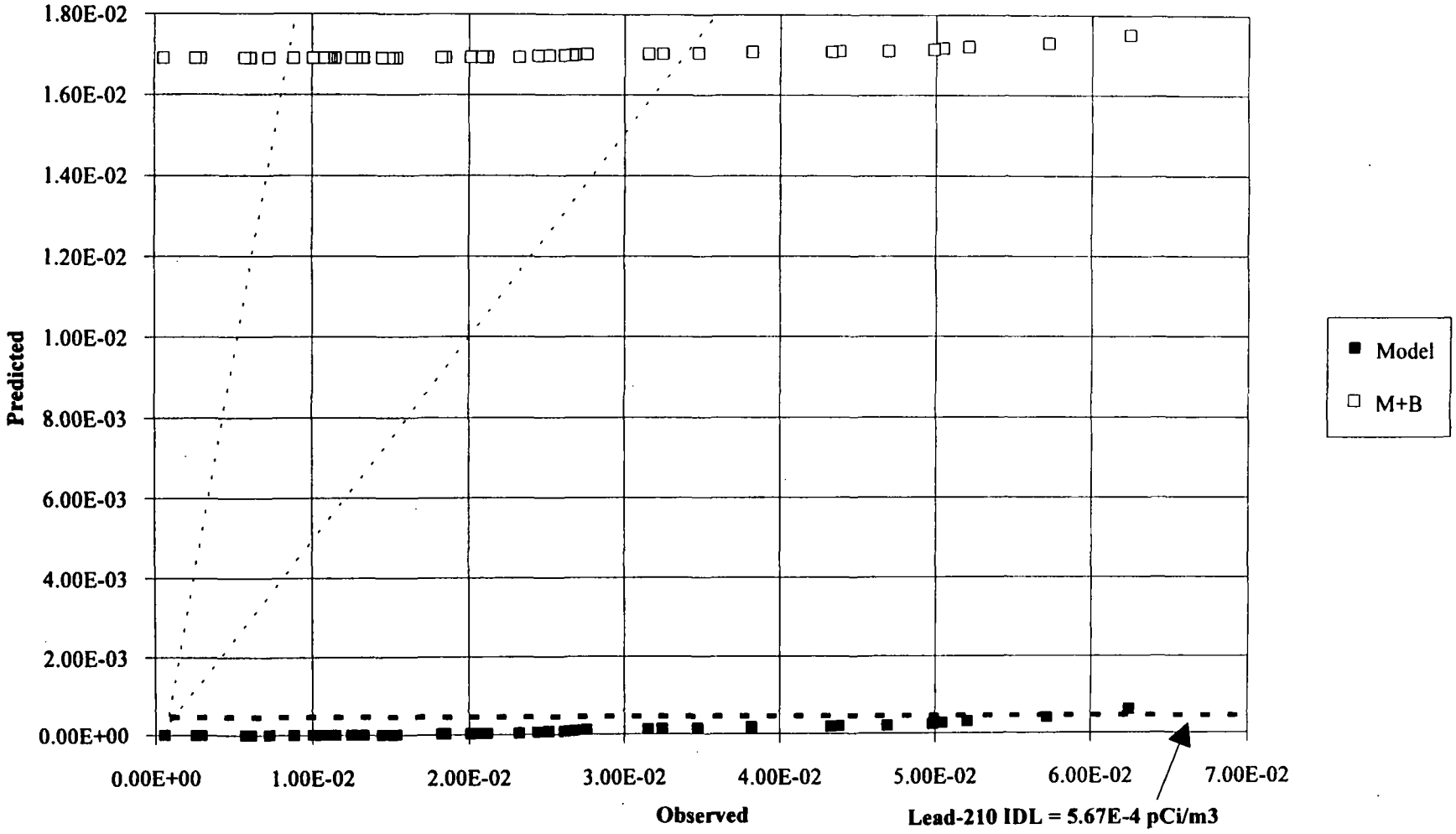


Figure AI-2-62
24-hour Lead-210 for Site 6 Oct. 1, 1993 to September 30, 1994

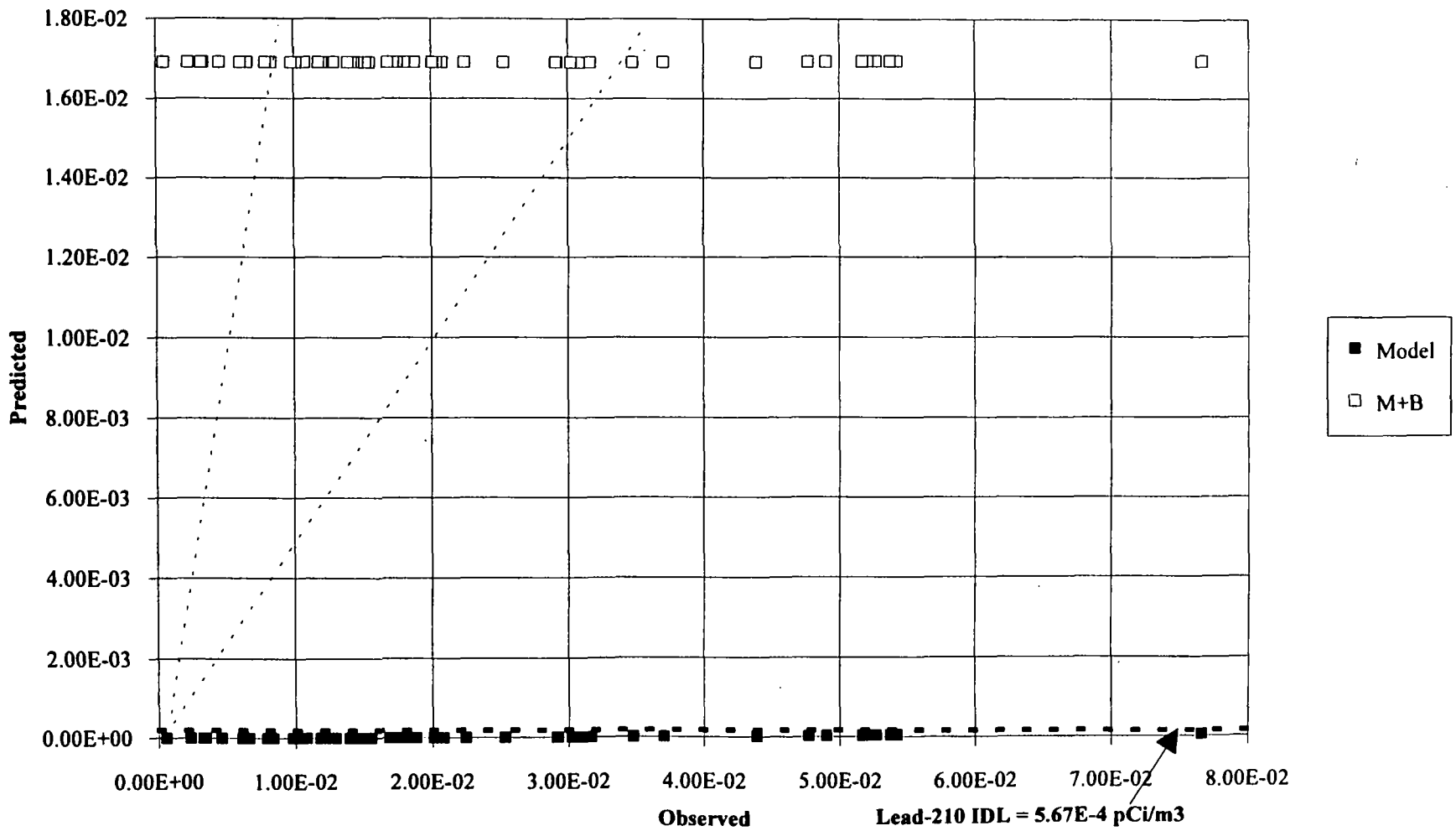


Figure AI-2-63
24-hour Lead-210 for Site 7 Oct. 1, 1993 to September 30, 1994

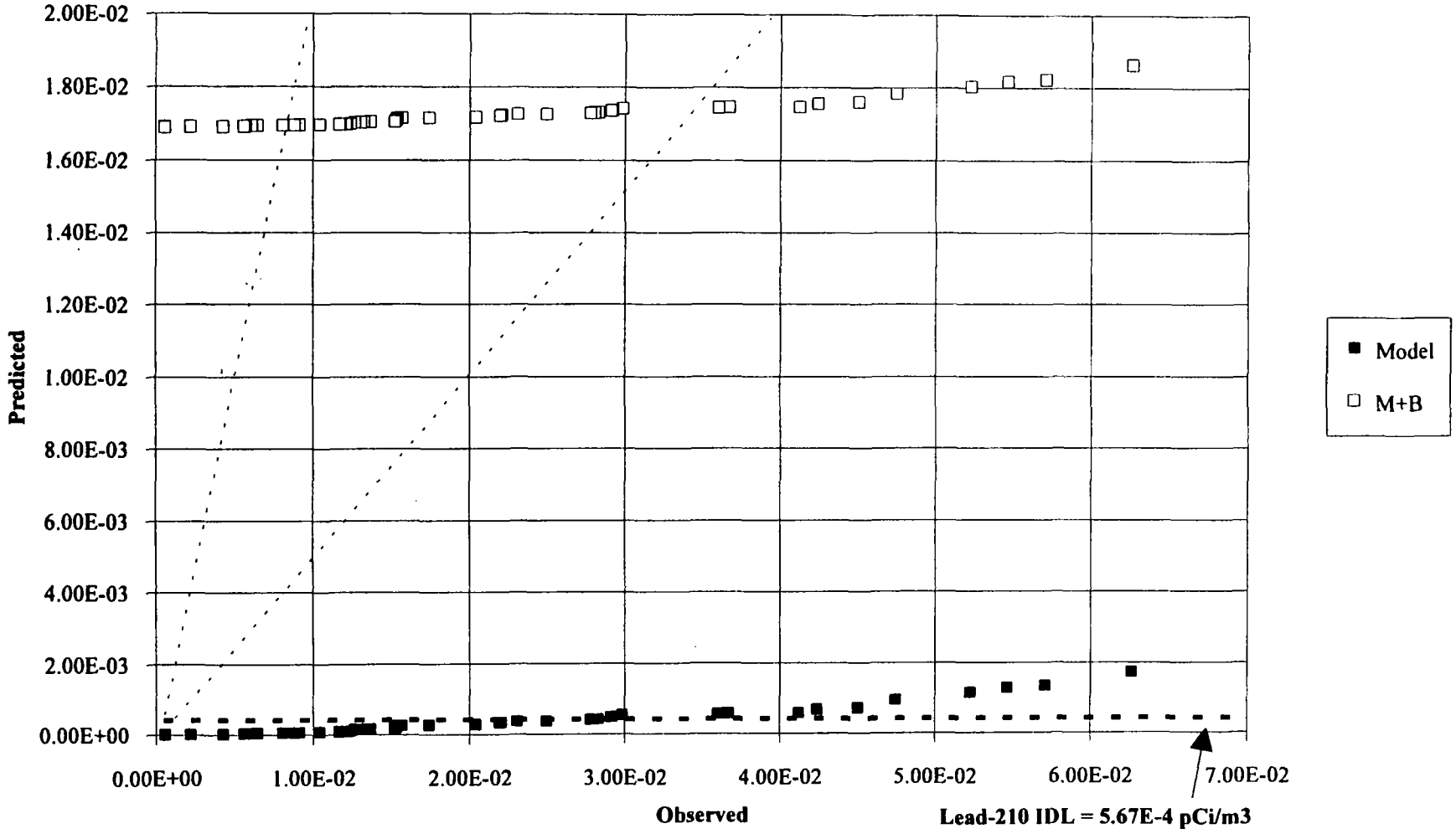


Figure AI-2-64
24-hour Polonium-210 for Site 1 Oct. 1, 1993 to September 30, 1994

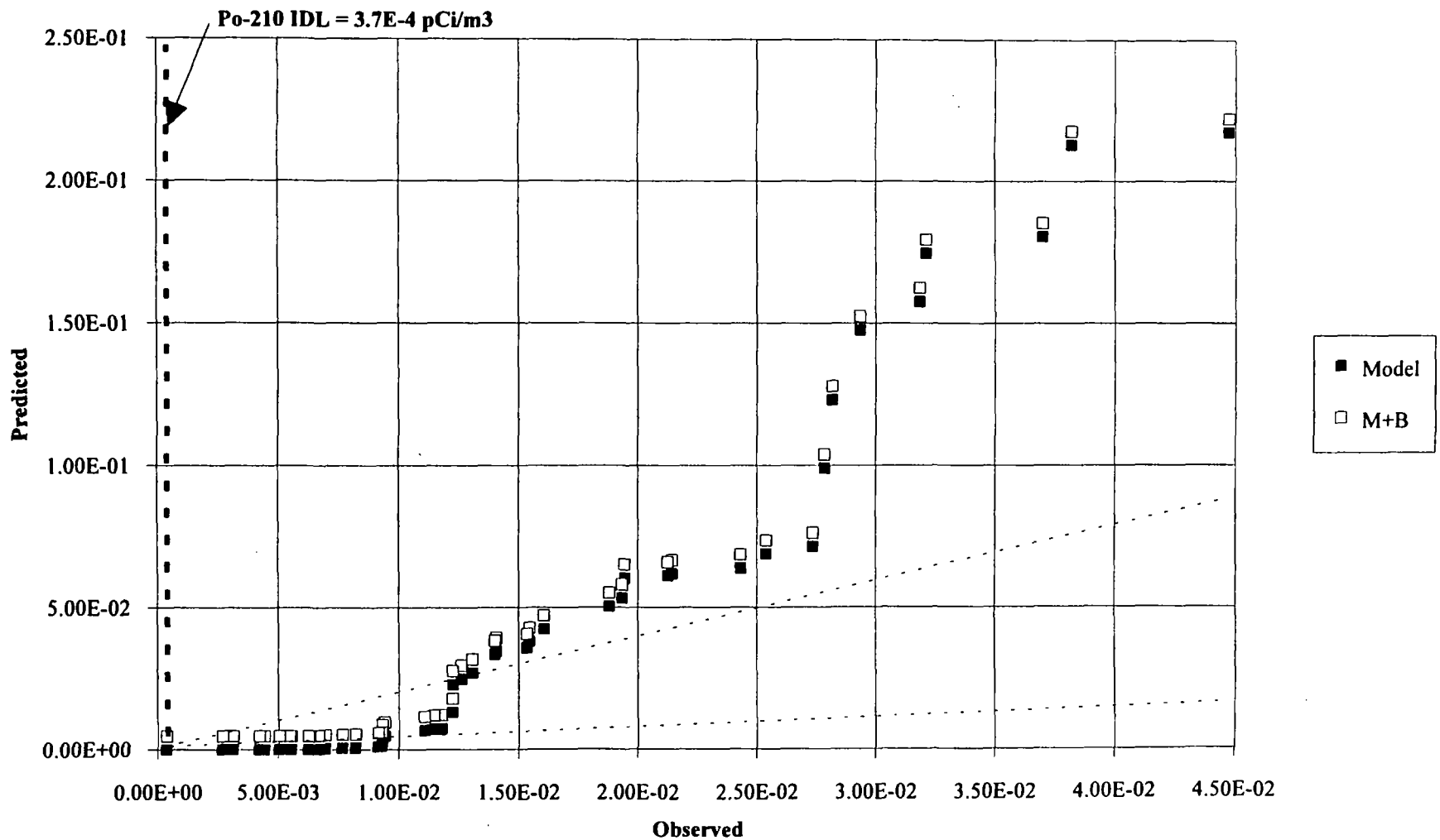


Figure AI-2-65
24-hour Polonium-210 for Site 2 Oct. 1, 1993 to September 30, 1994

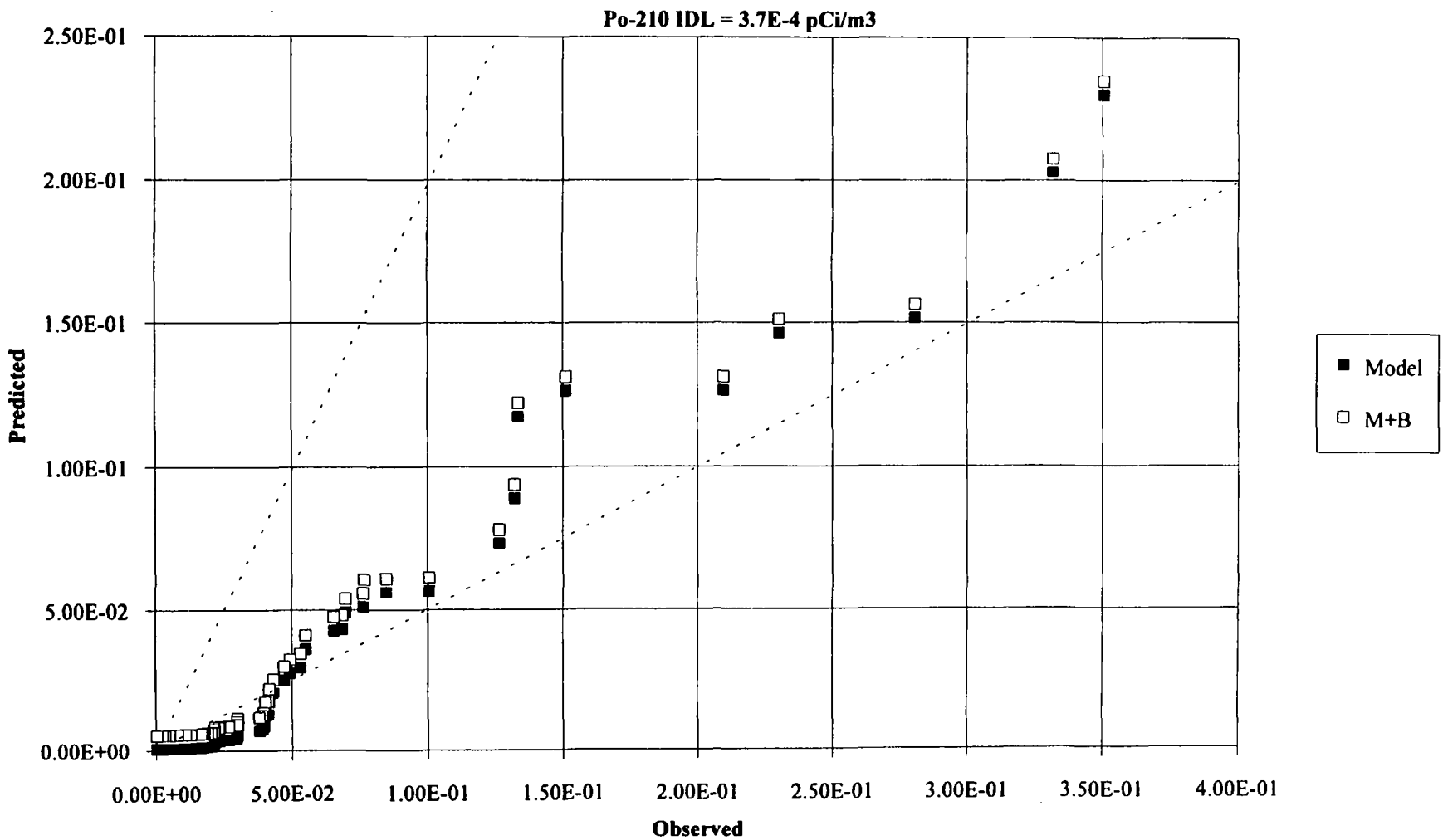


Figure AI-2-66
24-hour Polonium-210 for Site 3 Oct. 1, 1993 to June 24, 1994

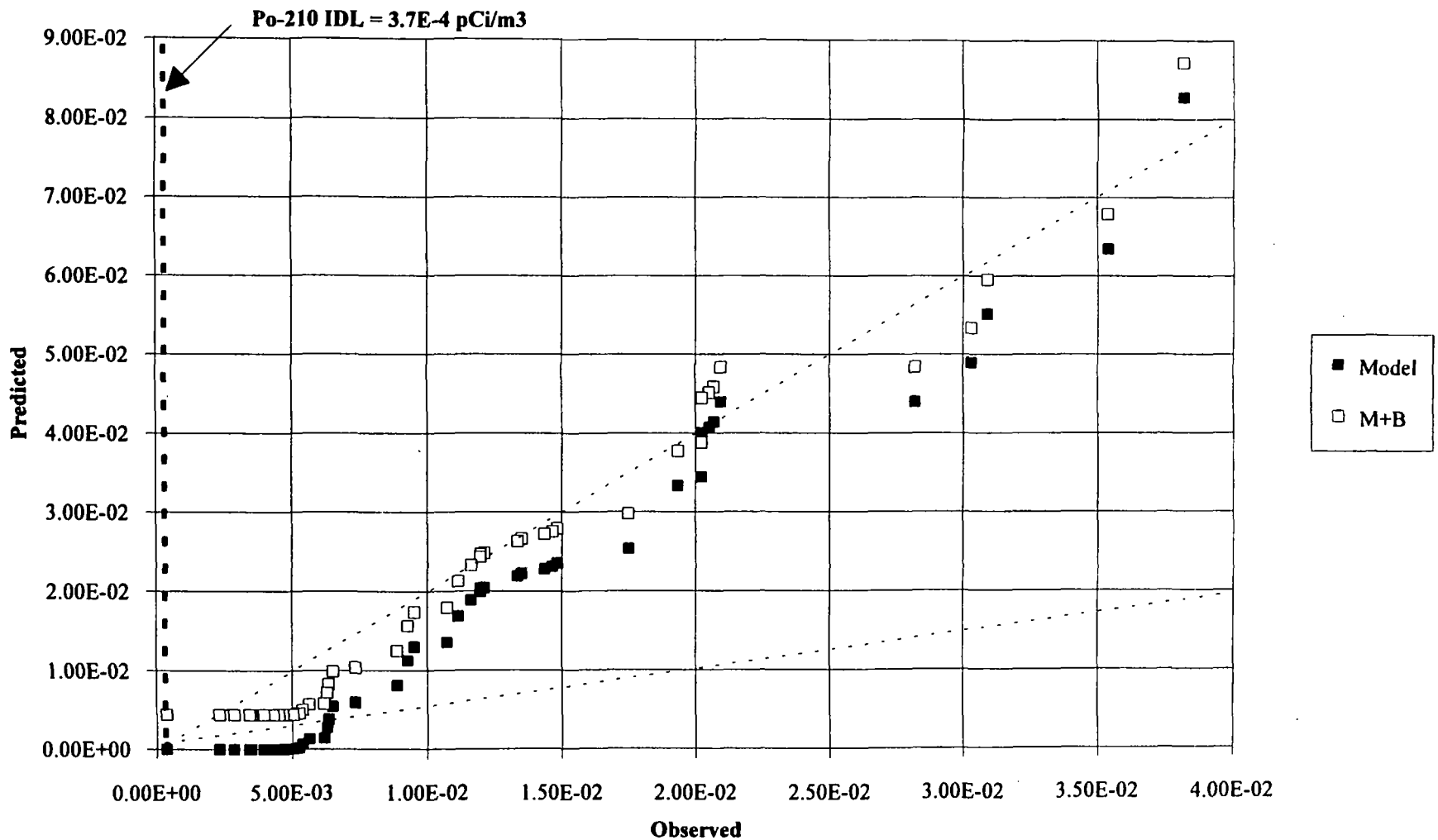


Figure AI-2-67
24-hour Polonium-210 for Site 4 Oct. 1, 1993 to September 30, 1994

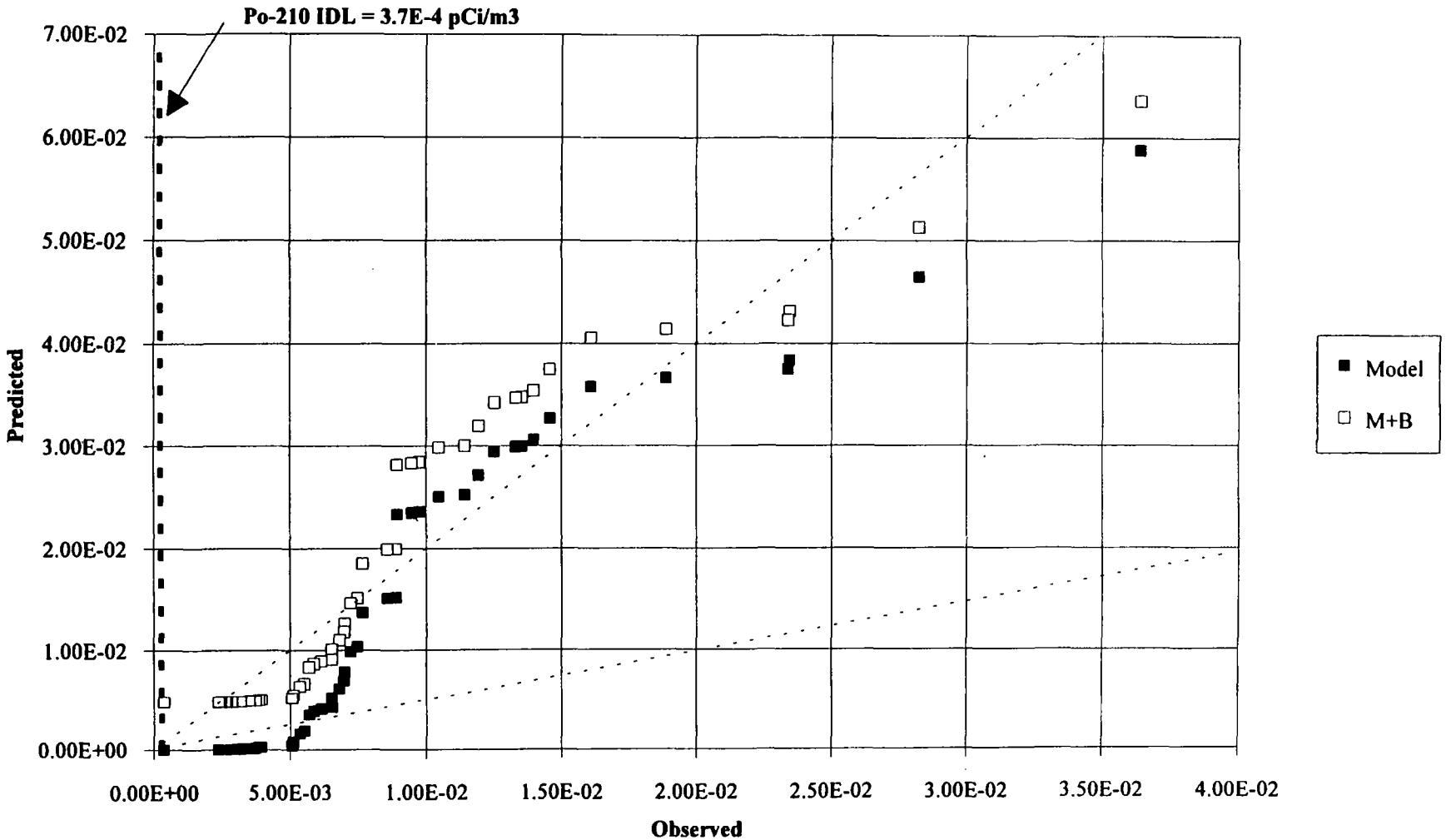


Figure AI-2-68
Polonium-210 for Site 5 Oct. 1, 1993 to September 30, 1994

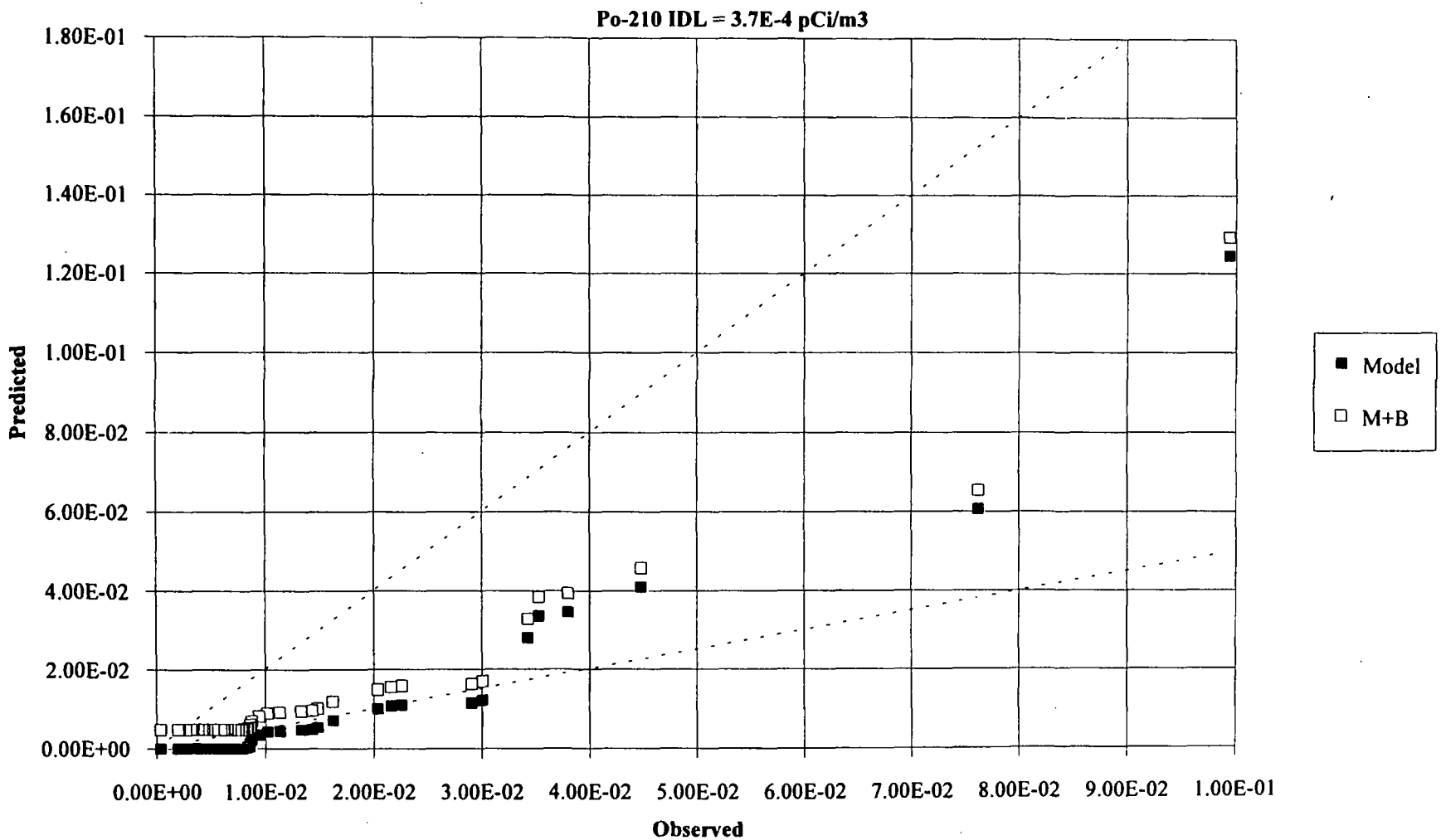


Figure AI-2-69
24-hour Polonium-210 for Site 6 Oct. 1, 1993 to September 30, 1994

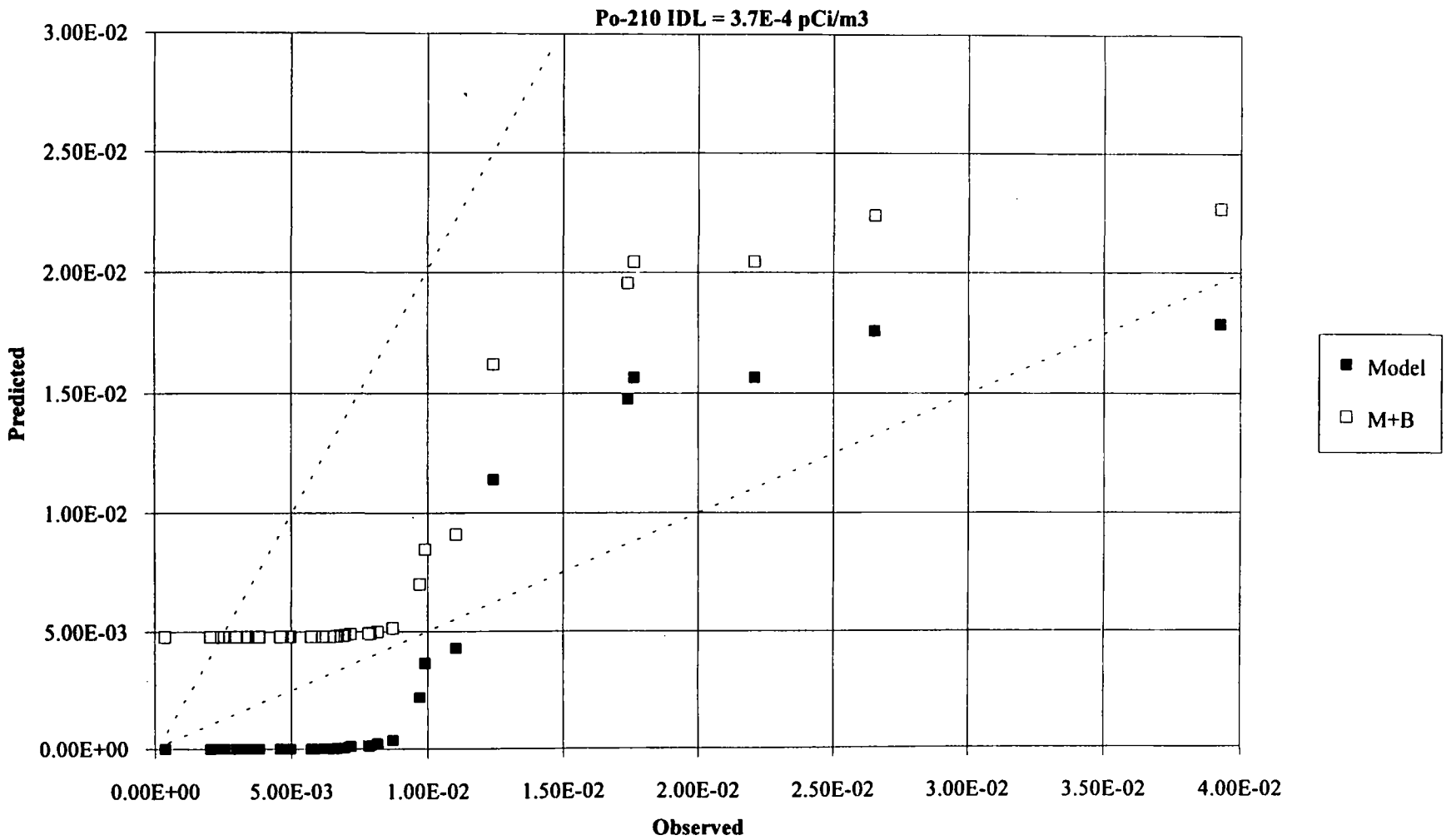


Figure AI-2-70
24-hour Polonium-210 for Site 7 Oct. 1, 1993 to September 30, 1994

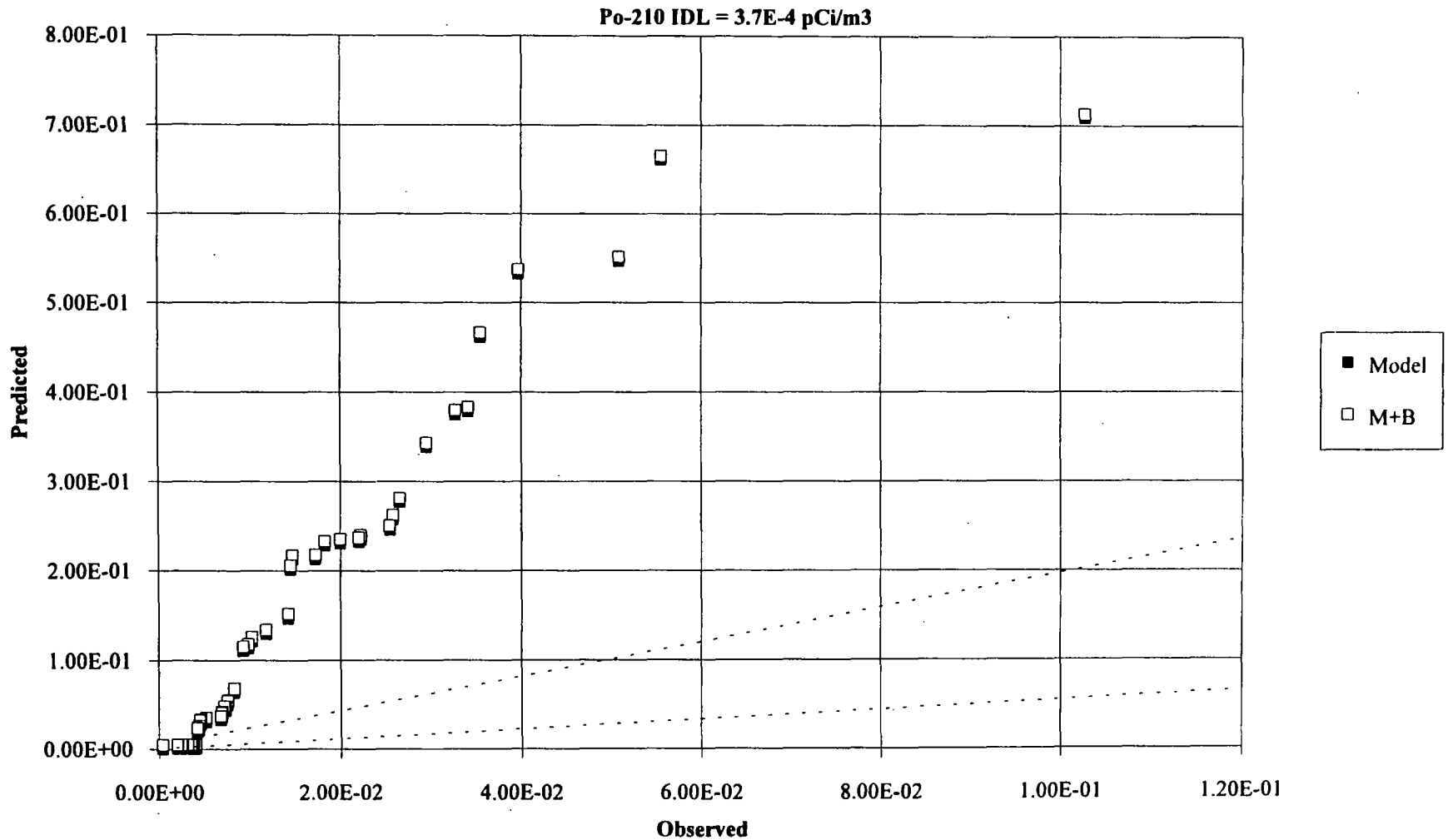


Figure AI-2-71
24-hour Radium-226 for Site 1 Oct. 1, 1993 to September 30, 1994

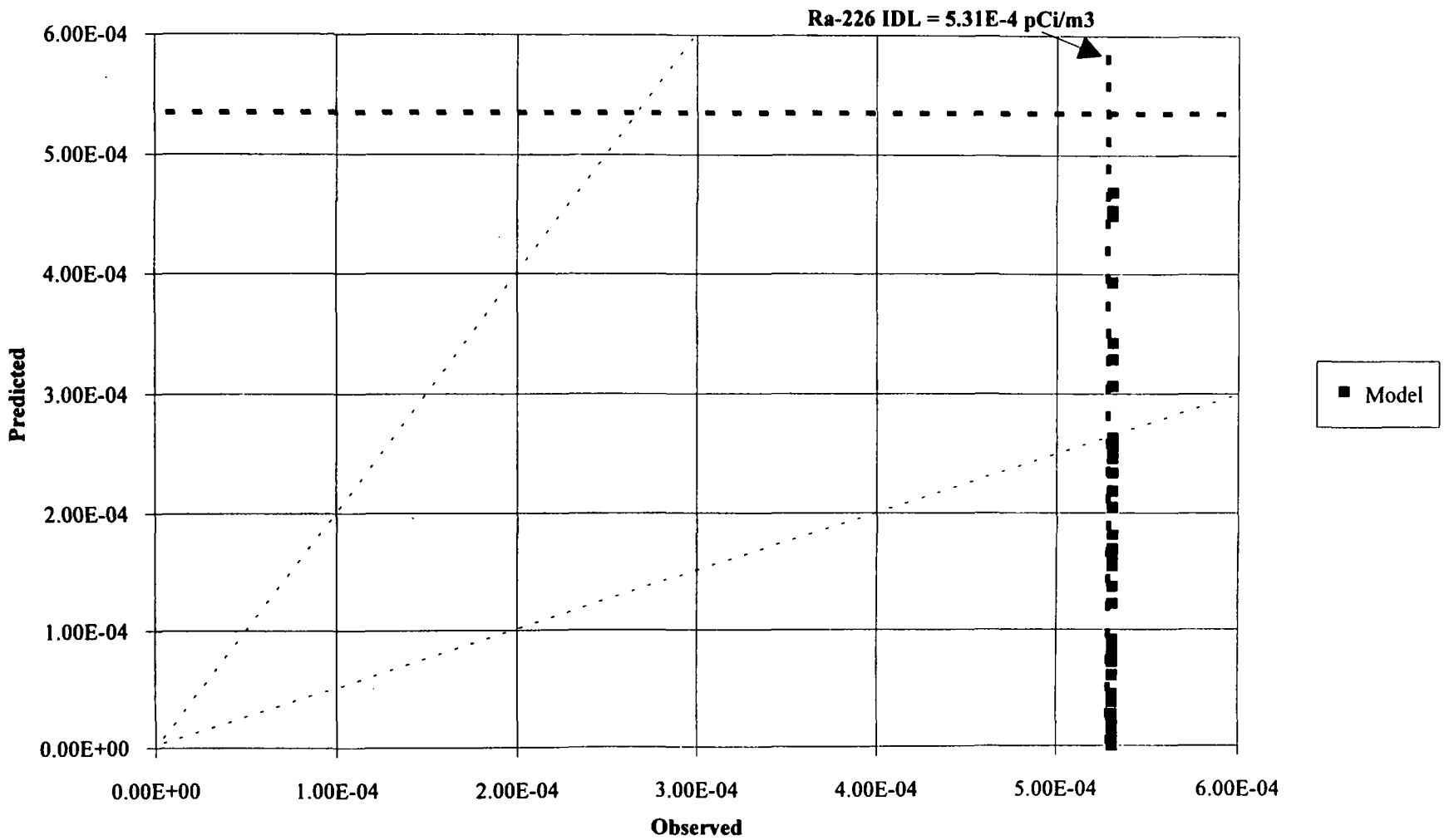


Figure AI-2-72
24-hour Radium-226 for Site 2 Oct. 1, 1993 to September 30, 1994

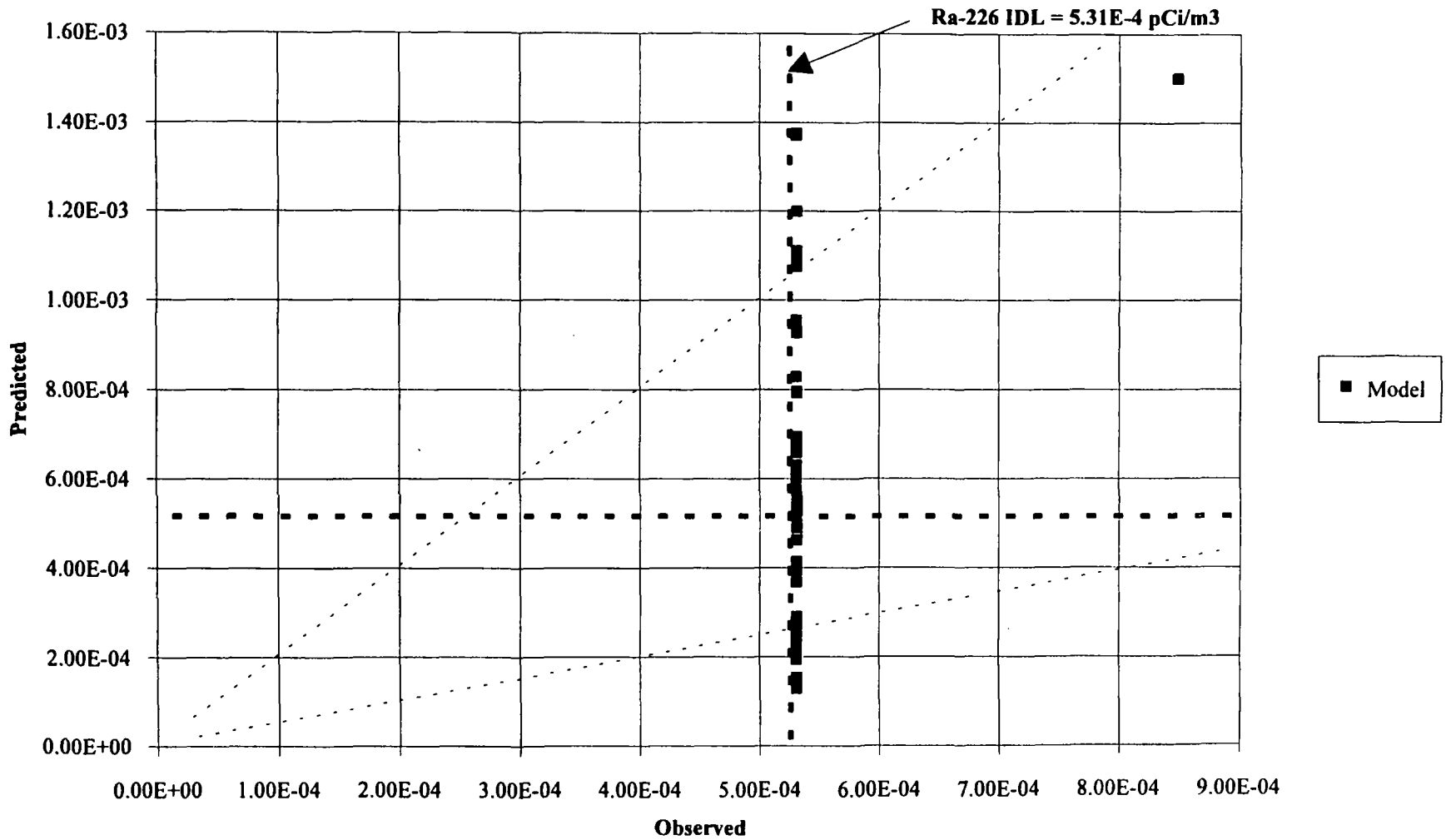


Figure AI-2-73
24-hour Radium-226 for Site 3 Oct. 1, 1993 to June 24, 1994

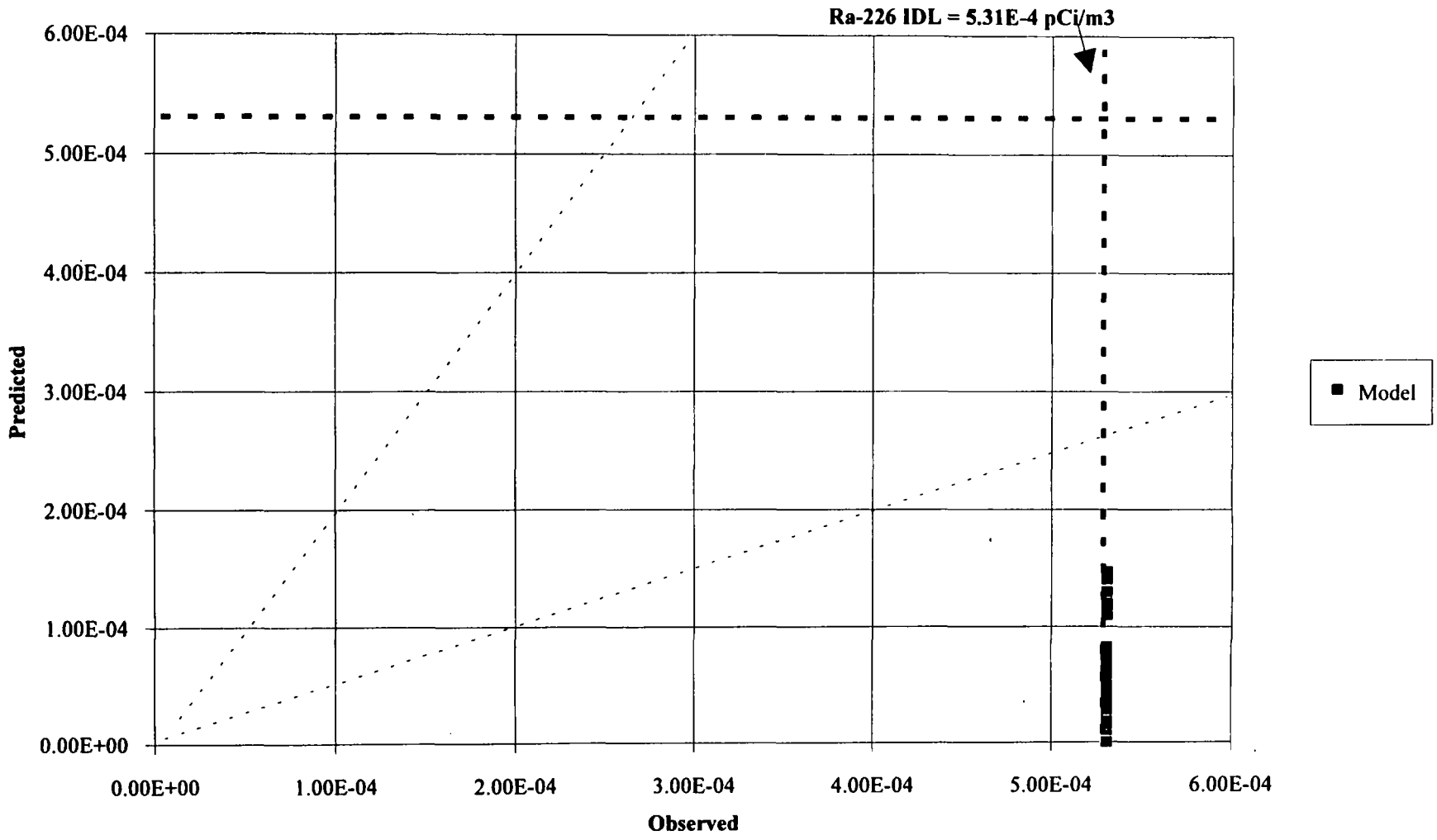


Figure AI-2-74
24-hour Radium-226 for Site 4 Oct. 1, 1993 to September 30, 1994

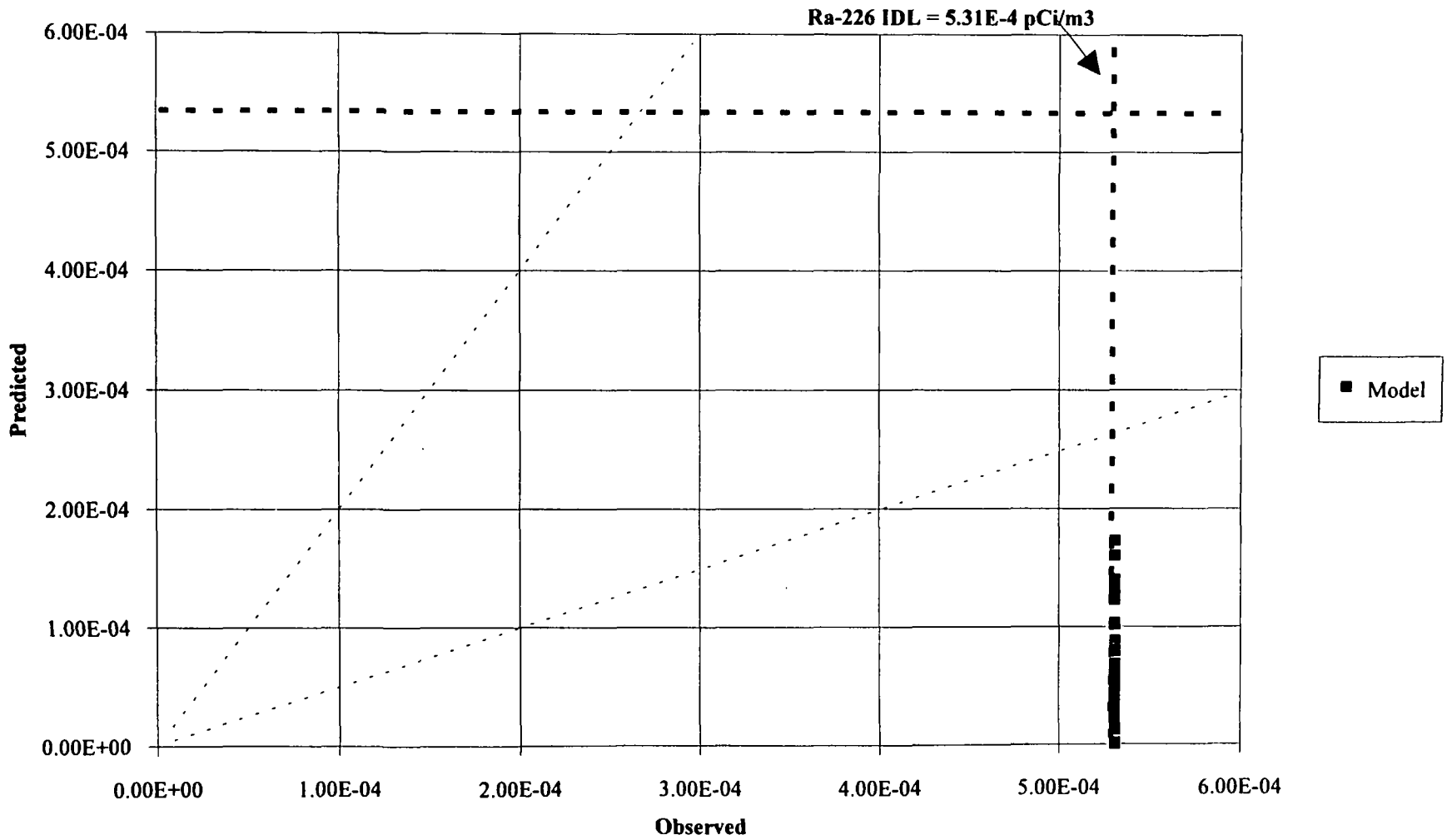


Figure AI-2-75
24-hour Radium-226 for Site 5 Oct. 1, 1993 to September 30, 1994

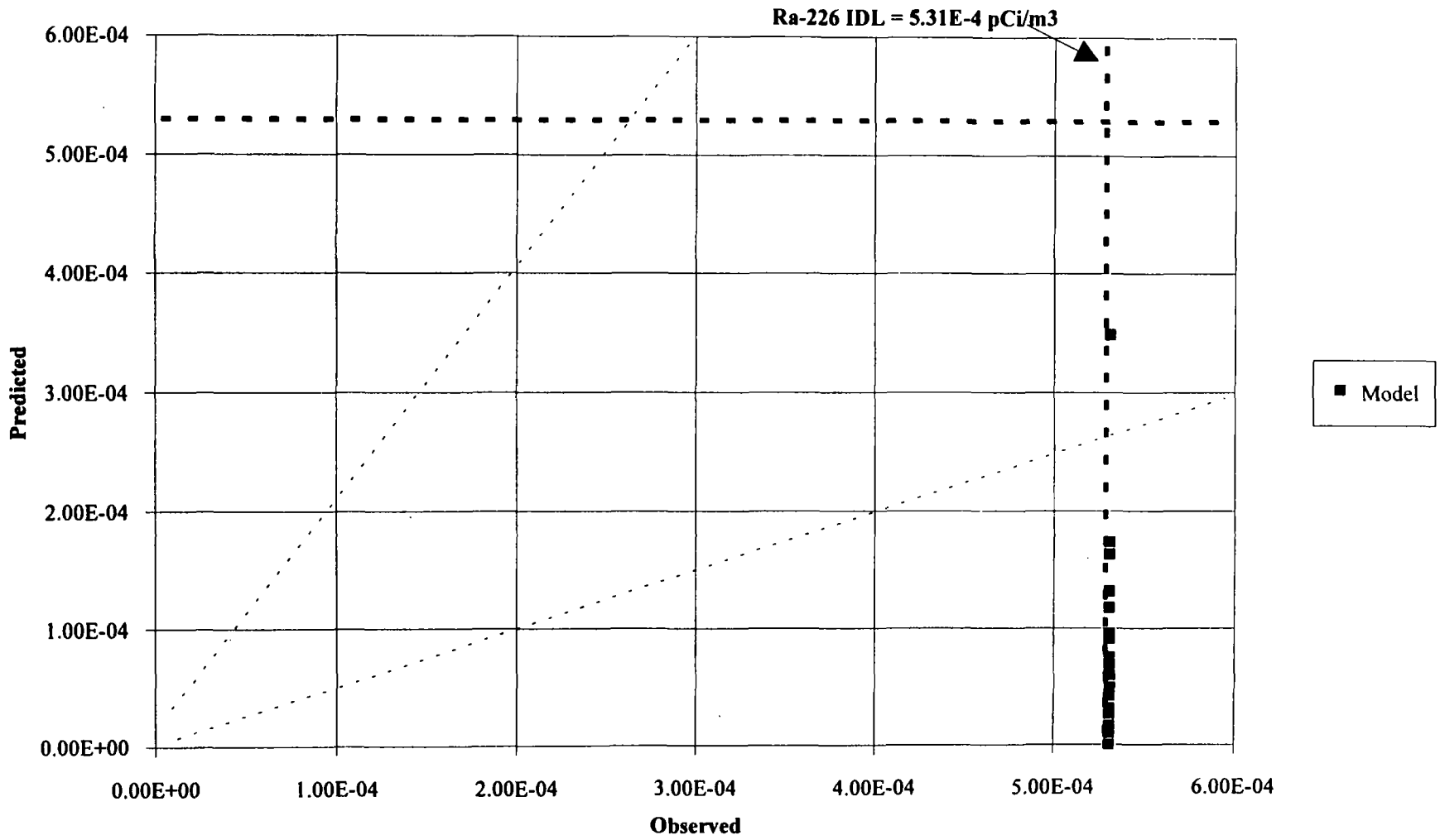
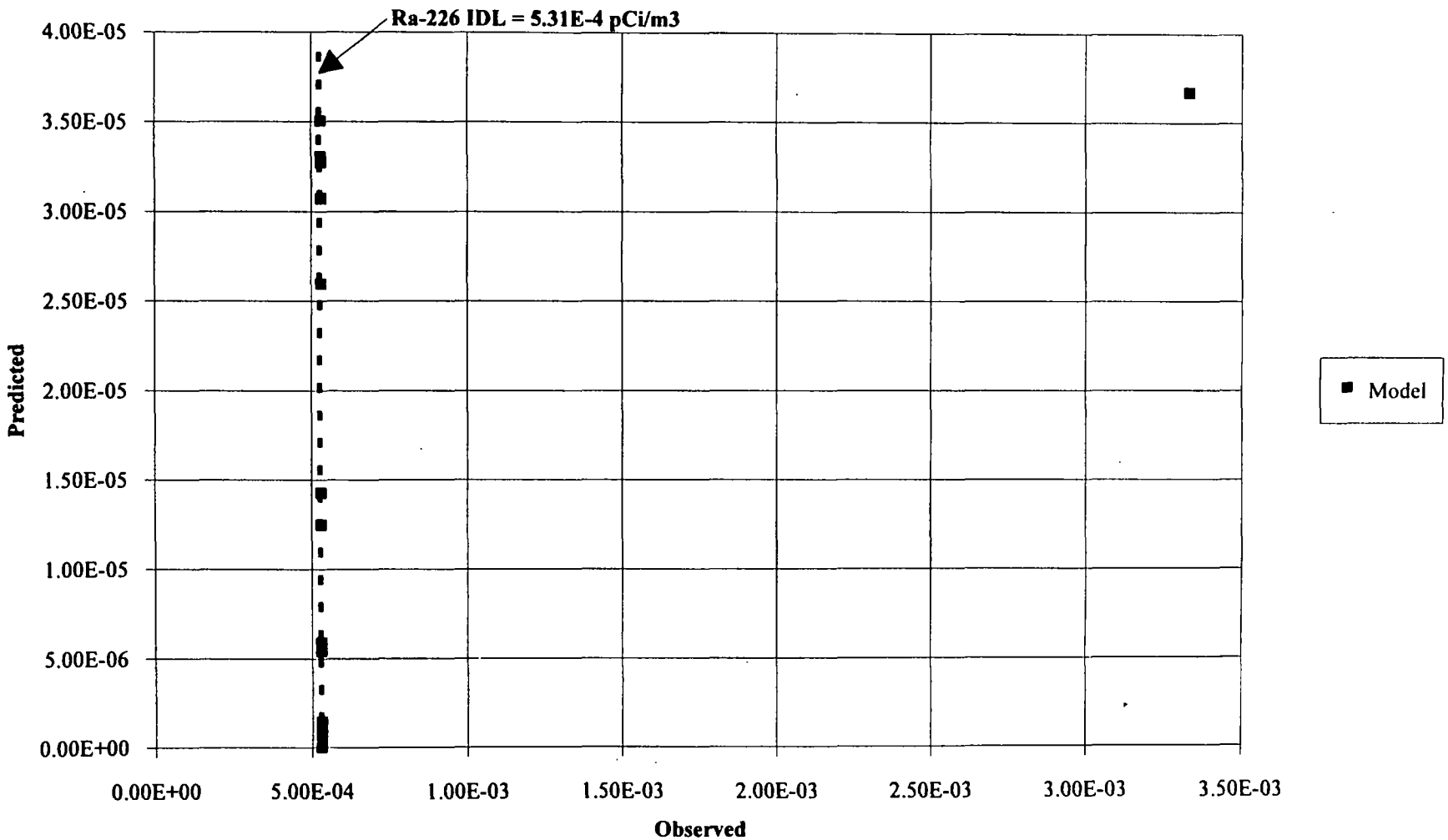


Figure AI-2-76
24-hour Radium-226 for Site 6 Oct. 1, 1993 to September 30, 1994



Predicted activities are very much less than a factor of 2 lower than the observed activities.

Figure AI-2-77
24-hour Radium-226 for Site 7 Oct. 1, 1993 to September 30, 1994

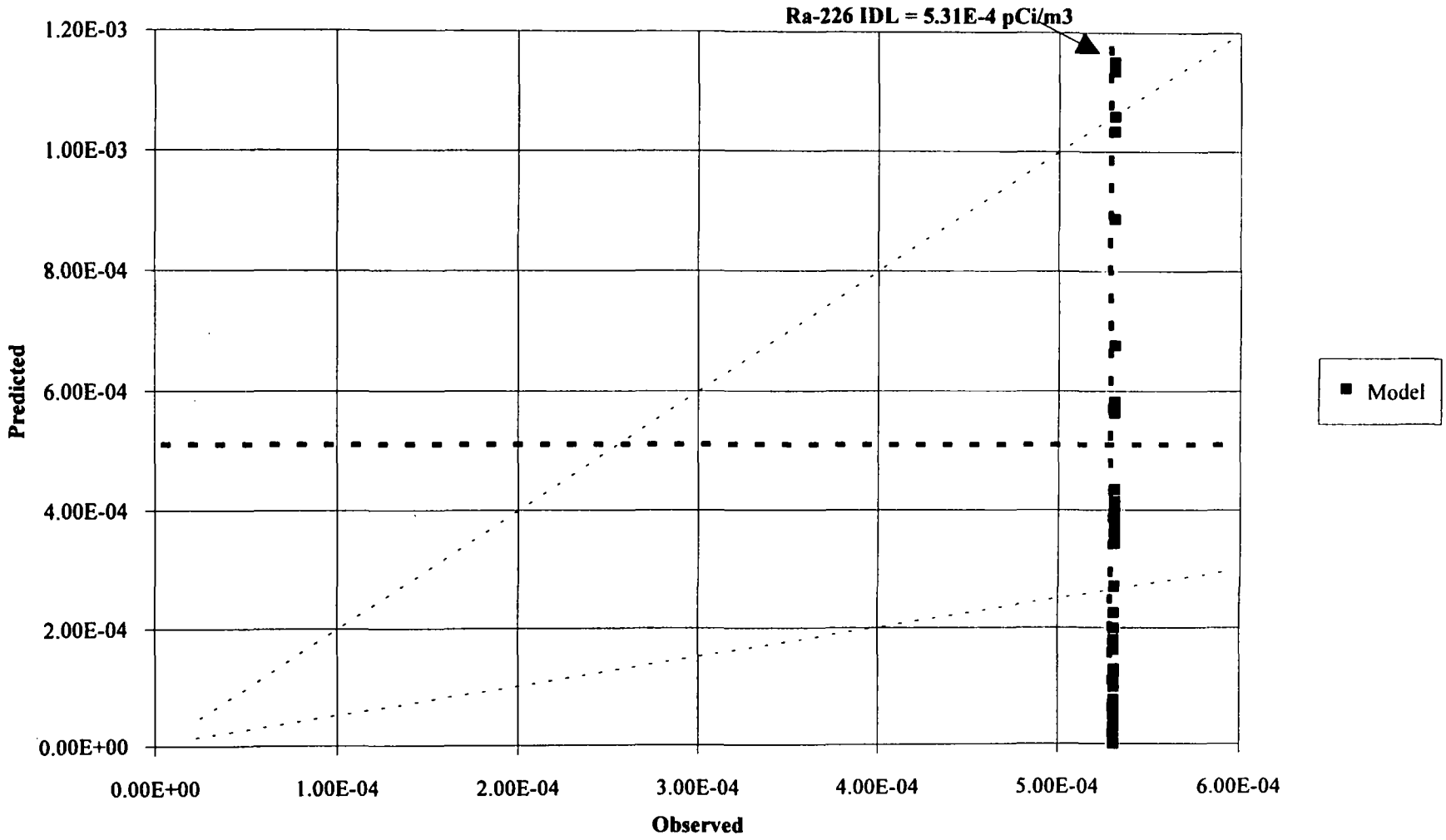


Figure AI-2-78
24-hour Thorium-230 for Site 1 Oct. 1, 1993 to September 30, 1994

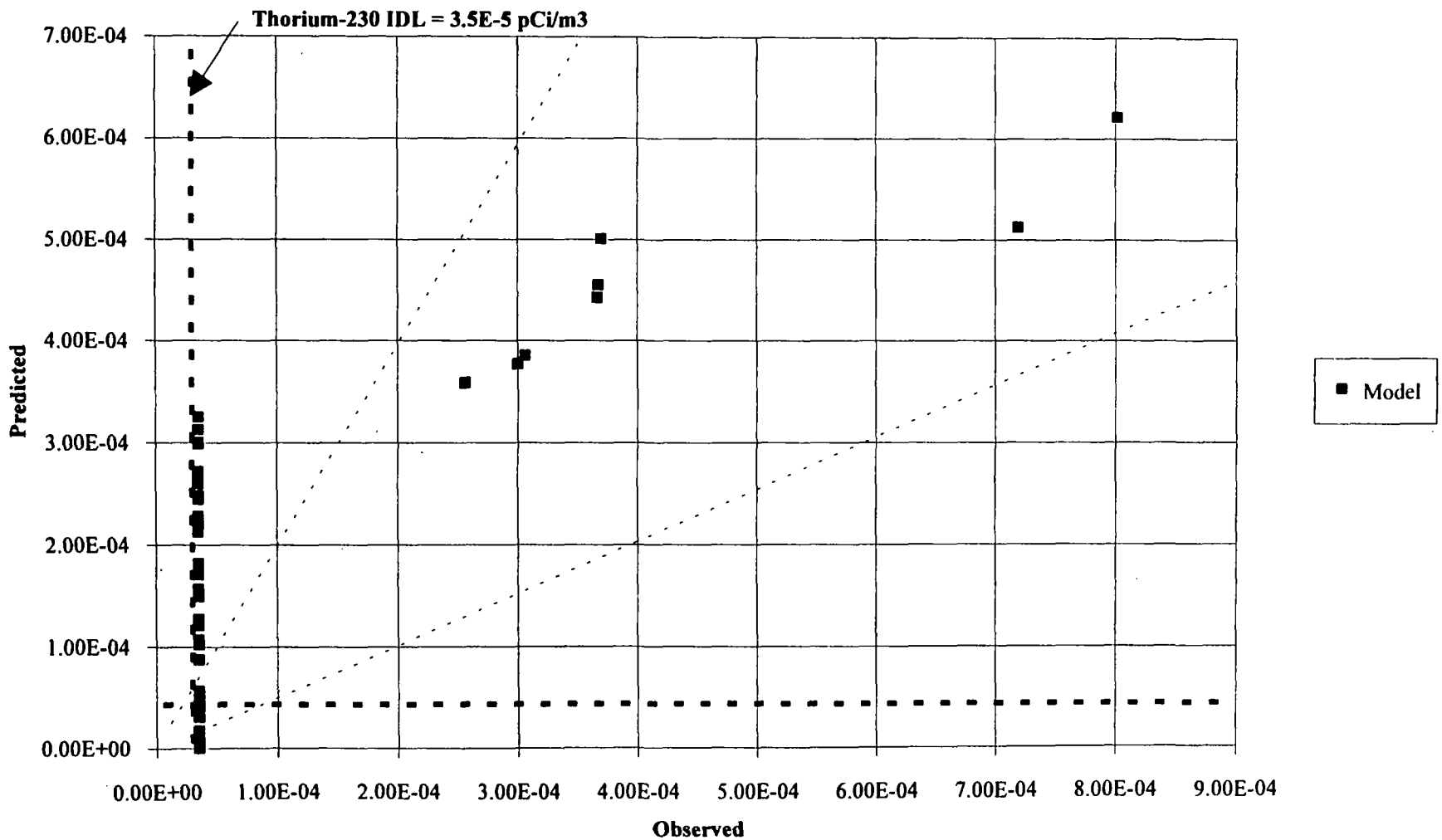


Figure AI-2-79
24-hour Thorium-230 for Site 2 Oct. 1, 1993 to September 30, 1994

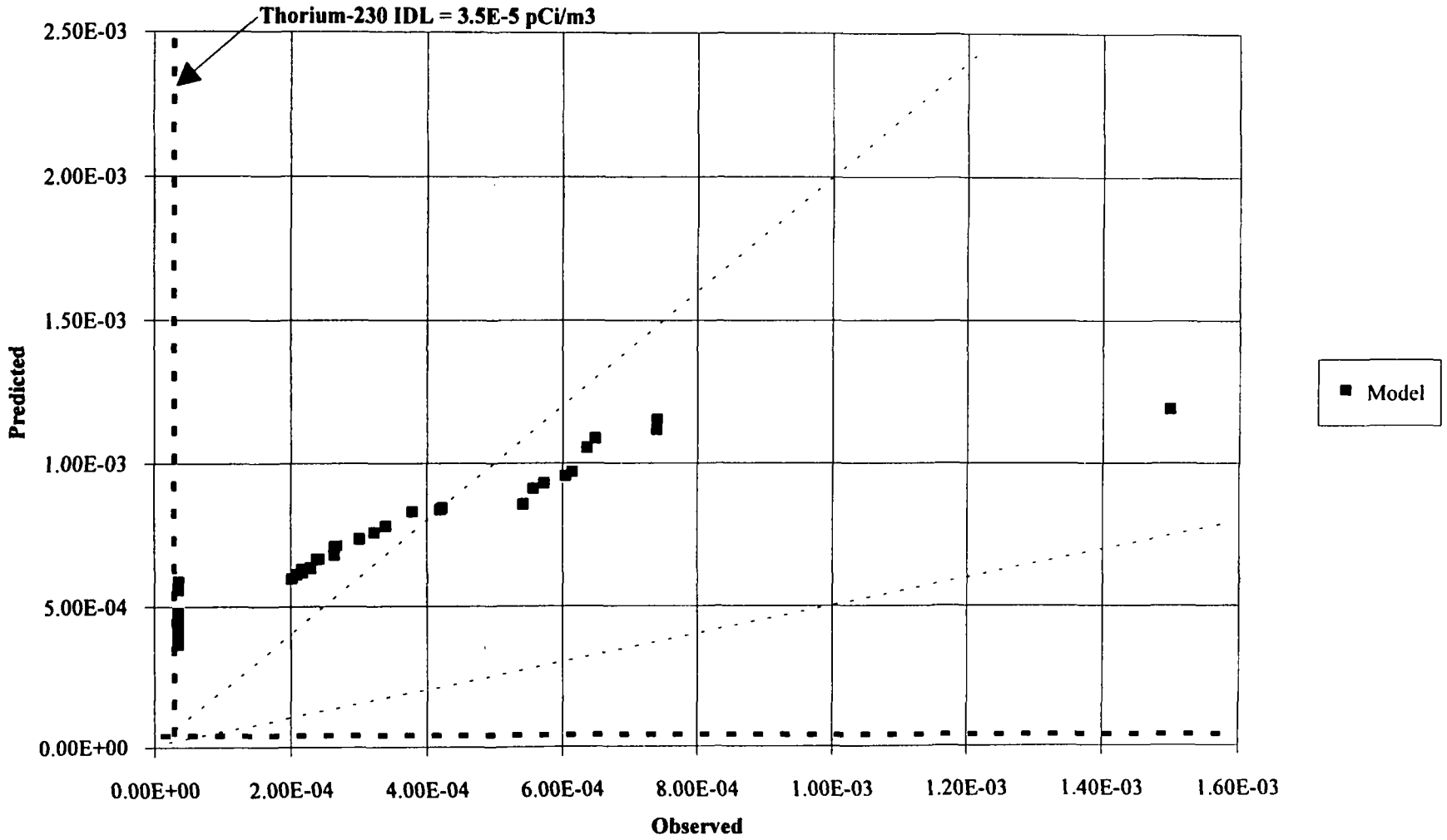


Figure AI-2-80
24-hour Thorium-230 for Site 3 Oct. 1, 1993 to June 24, 1994

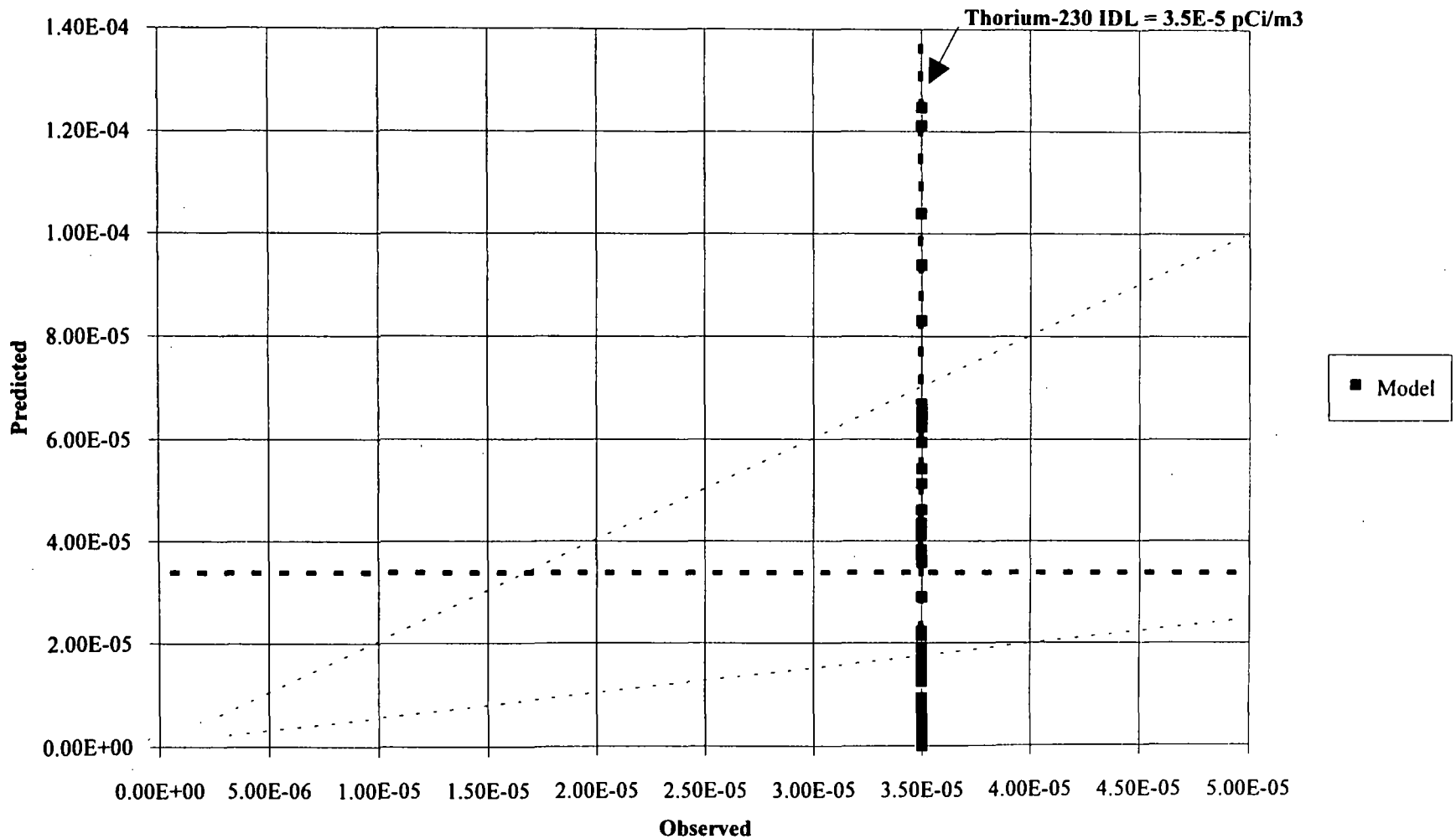


Figure AI-2-81
24-hour Thorium-230 for Site 4 Oct. 1, 1993 to September 30, 1994

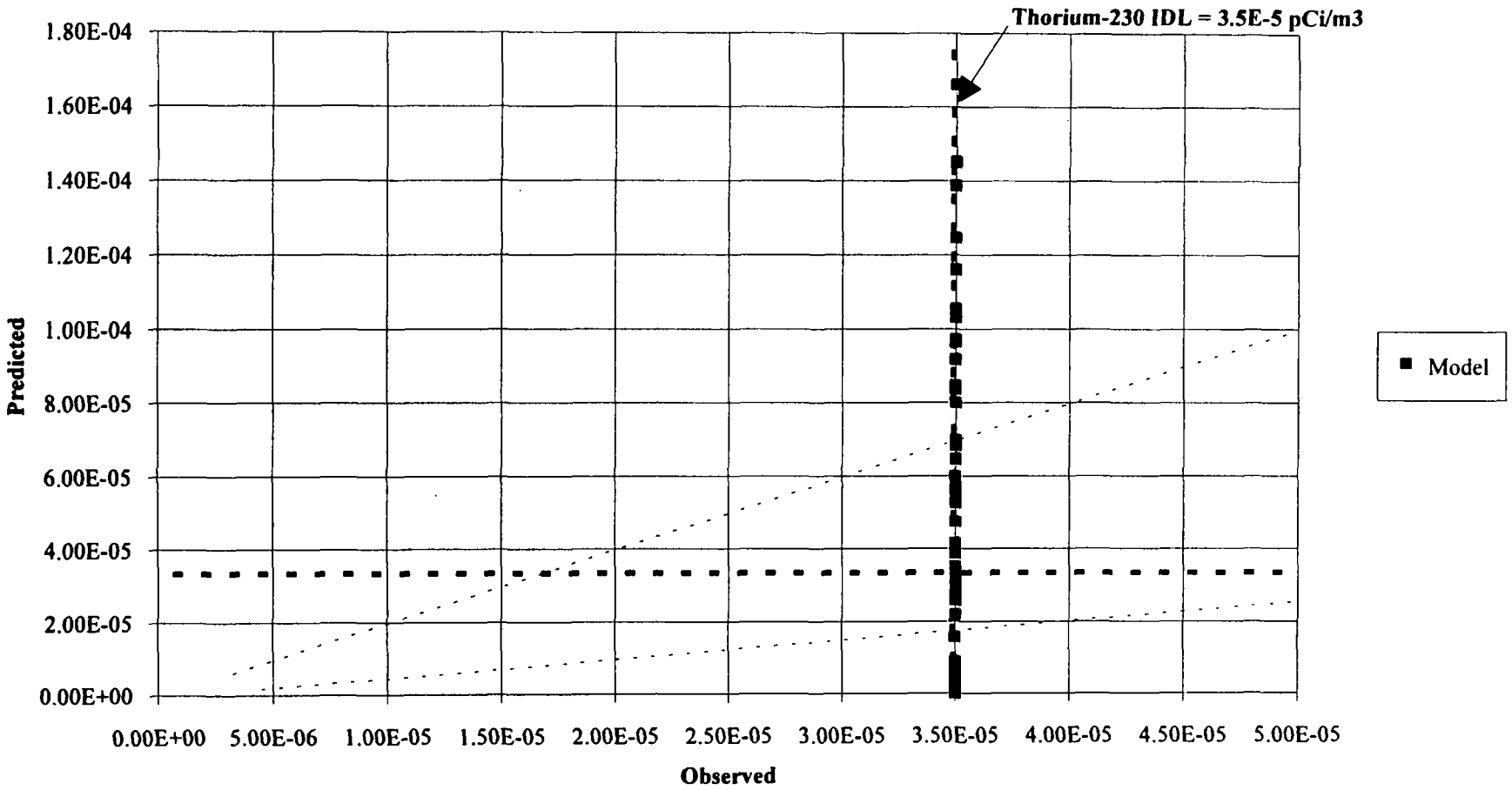


Figure AI-2-82
24-hour Thorium-230 for Site 5 Oct. 1, 1993 to September 30, 1994

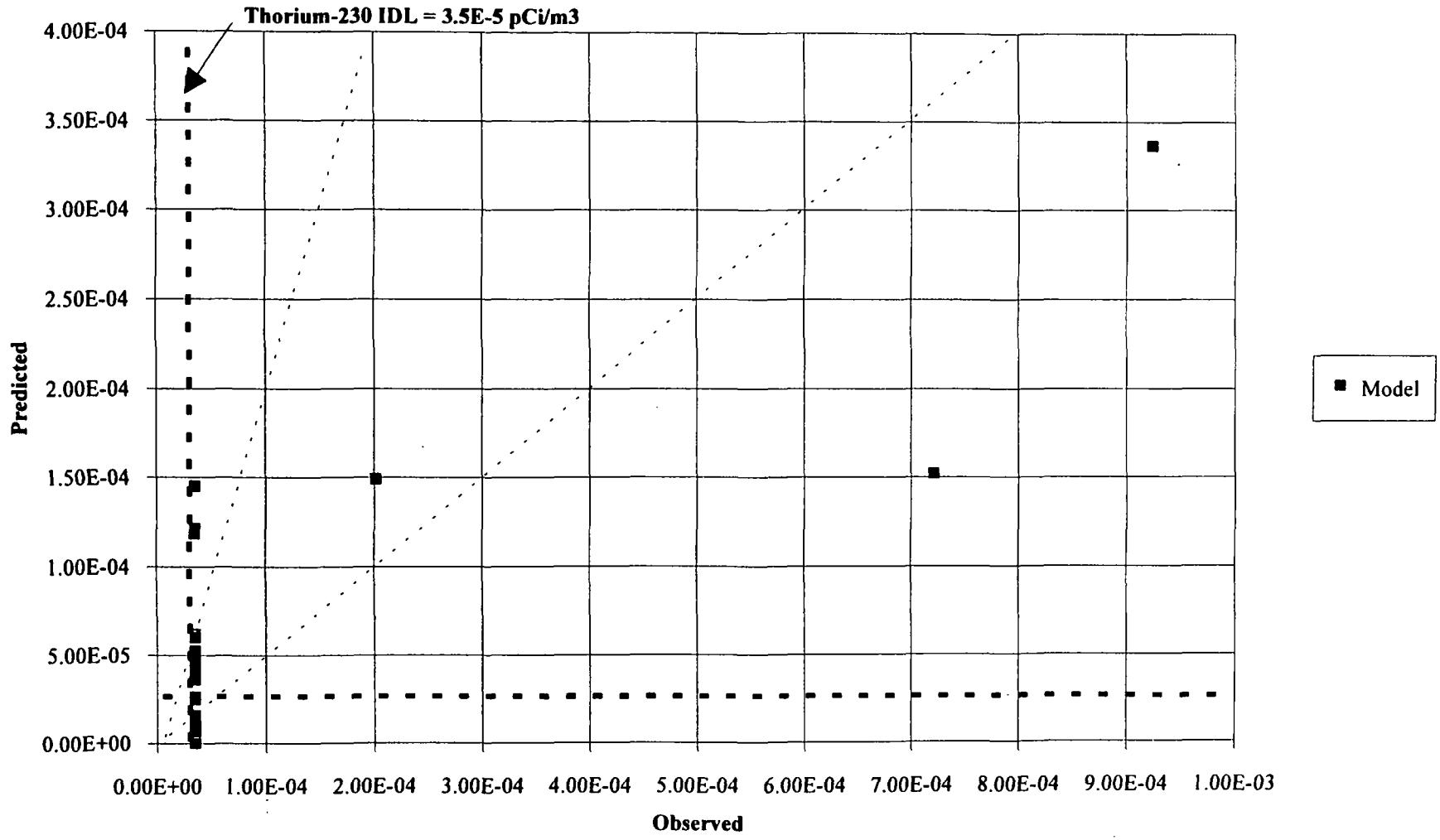


Figure AI-2-83
24-hour Thorium-230 for Site 6 Oct. 1, 1993 to September 30, 1994

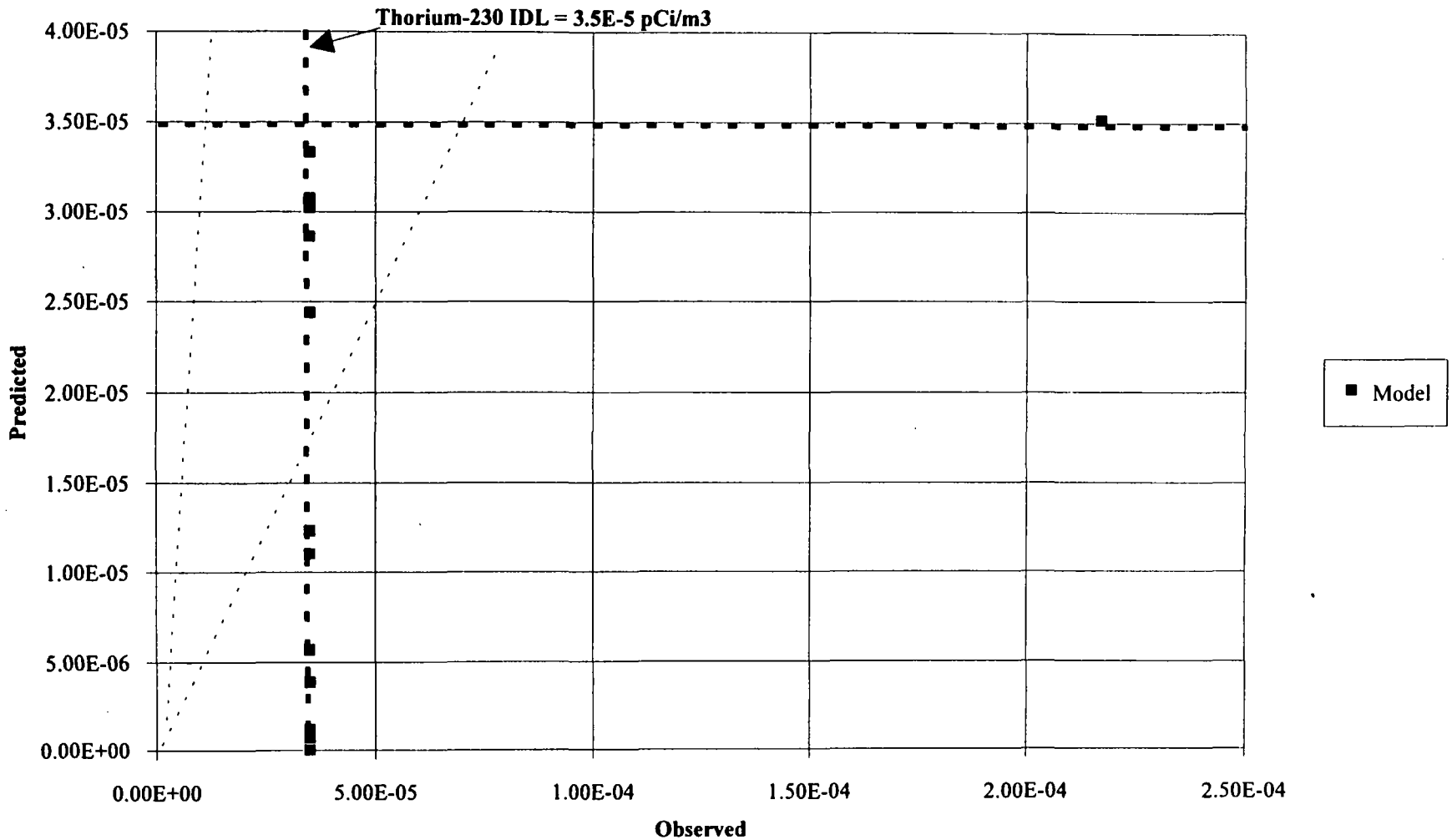


Figure AI-2-84
24-hour Thorium-230 for Site 7 Oct. 1, 1993 to September 30, 1994

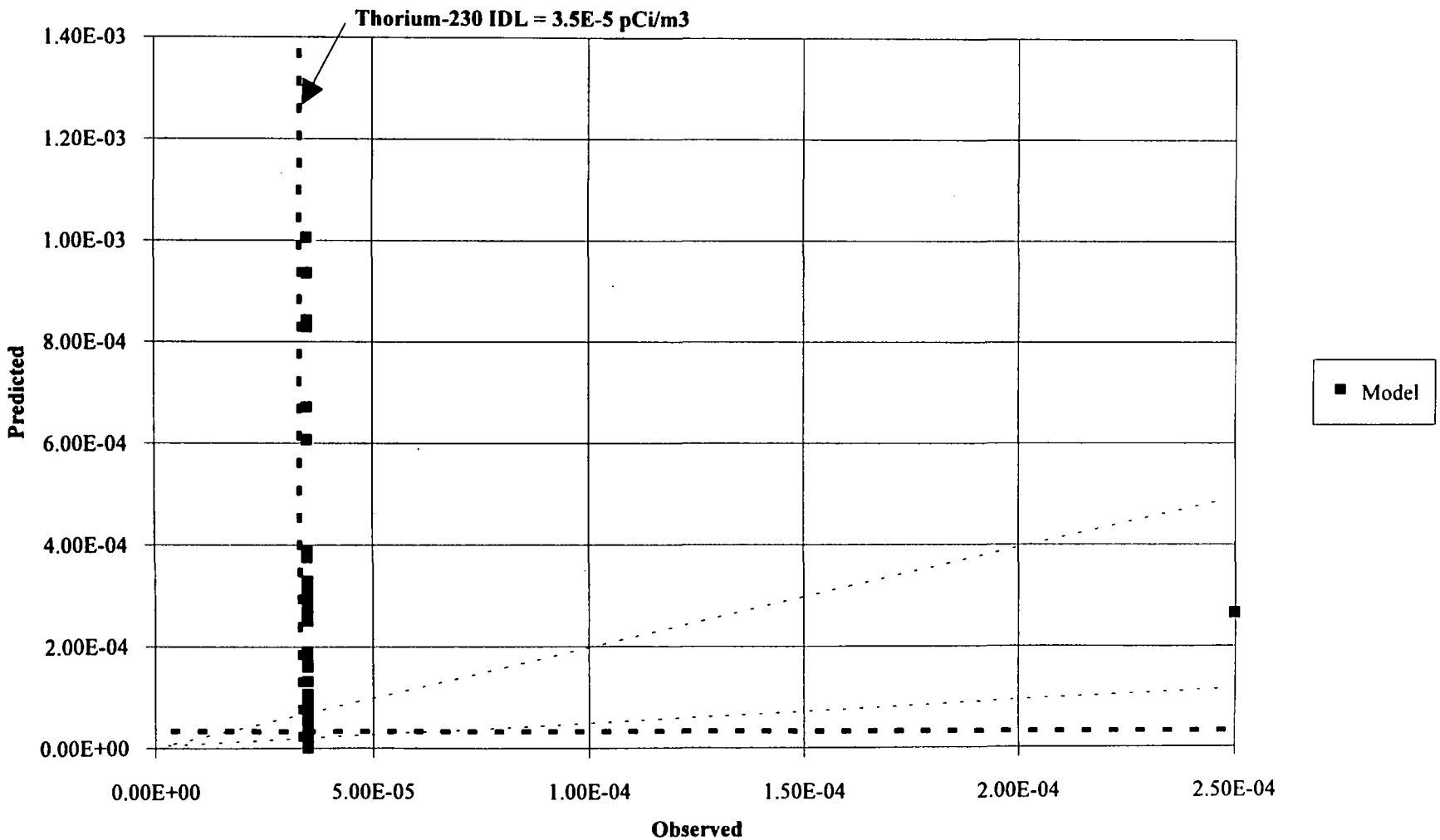


Figure AI-2-85
24-hour U-238 for Site 1 Oct. 1, 1993 to September 30, 1994

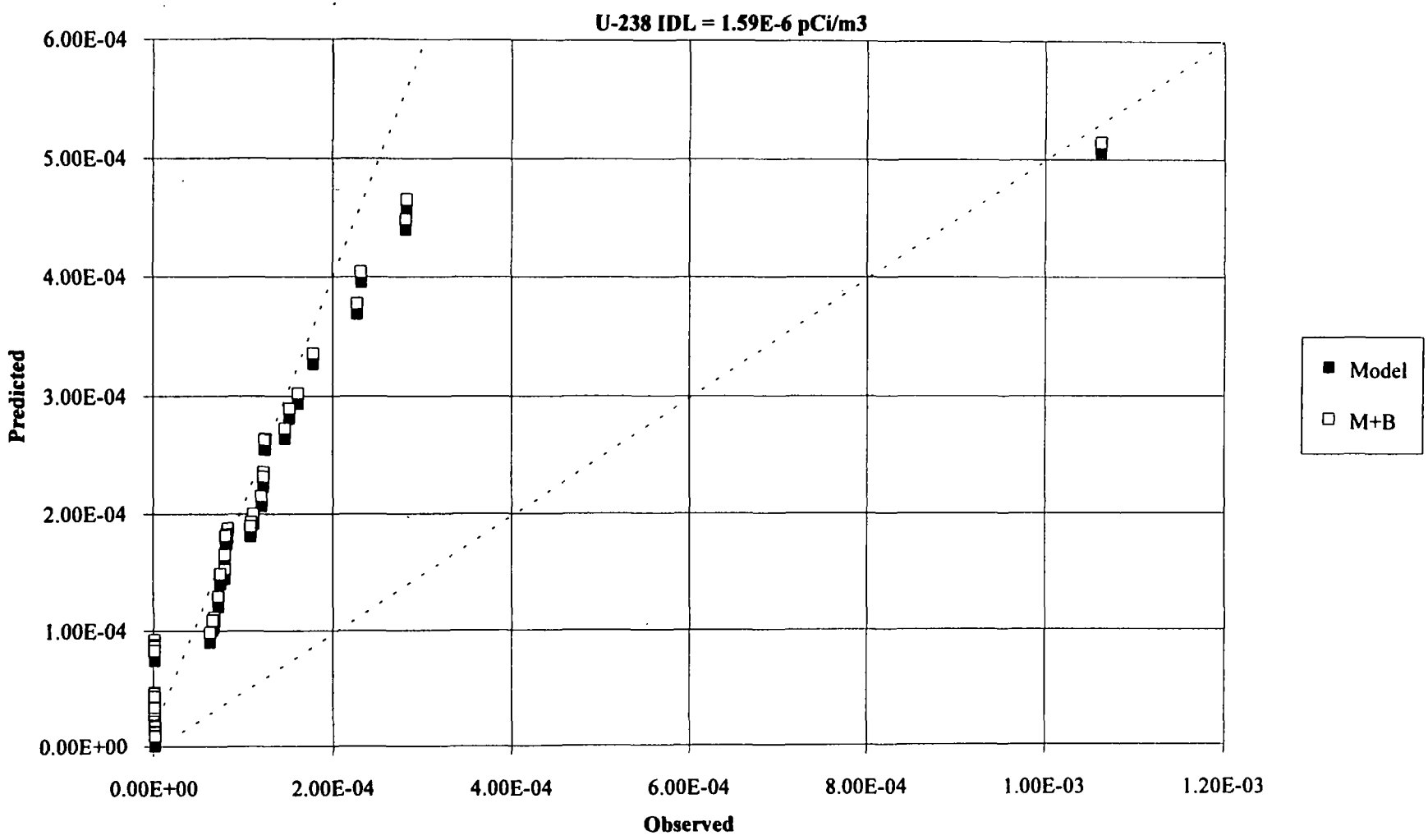


Figure AI-2-86
24-hour U-238 for Site 2 Oct. 1, 1993 to September 30, 1994

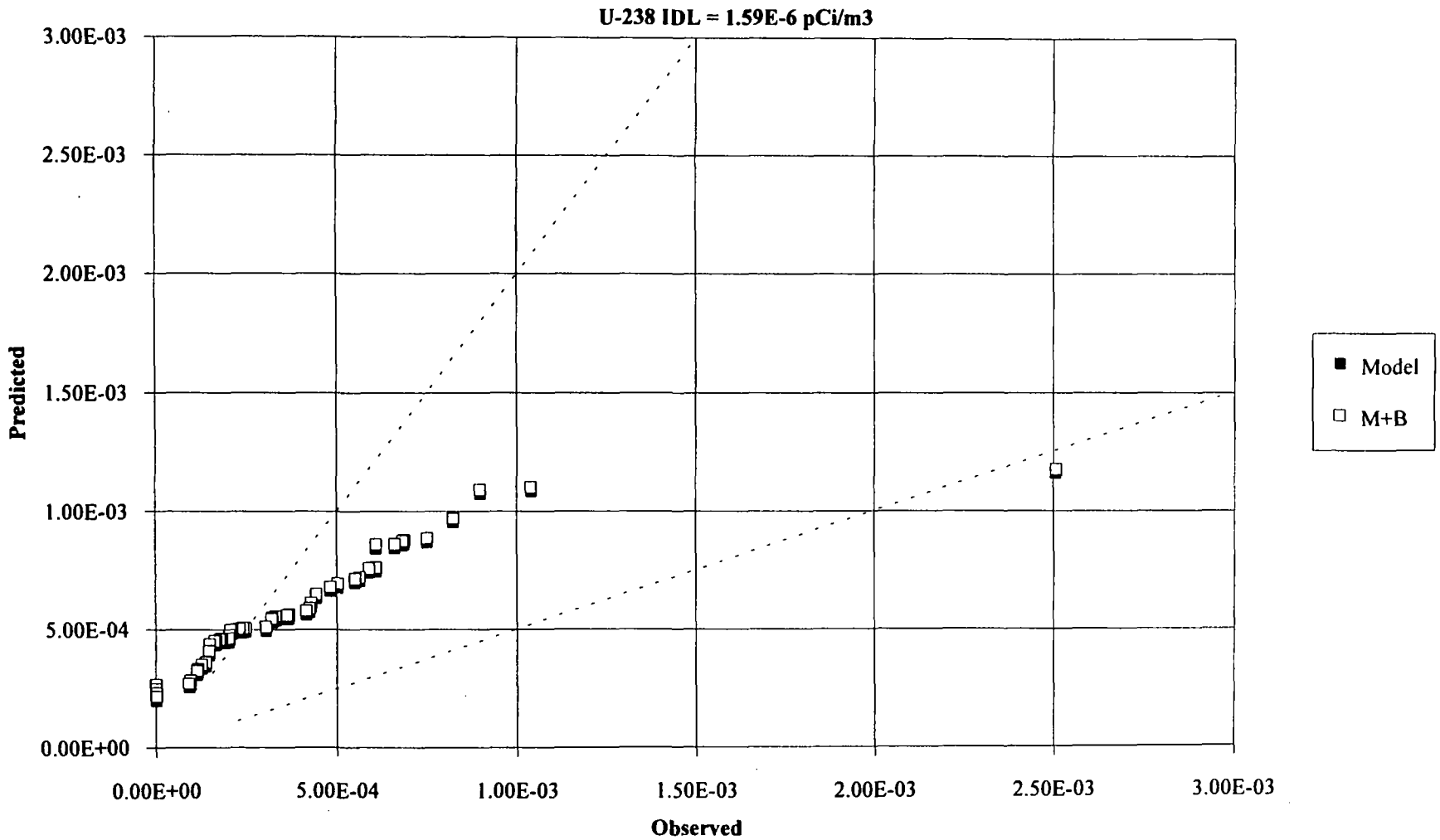


Figure AI-2-87
24-hour Uranium-238 for Site 3 Oct. 1, 1993 to June 24, 1994

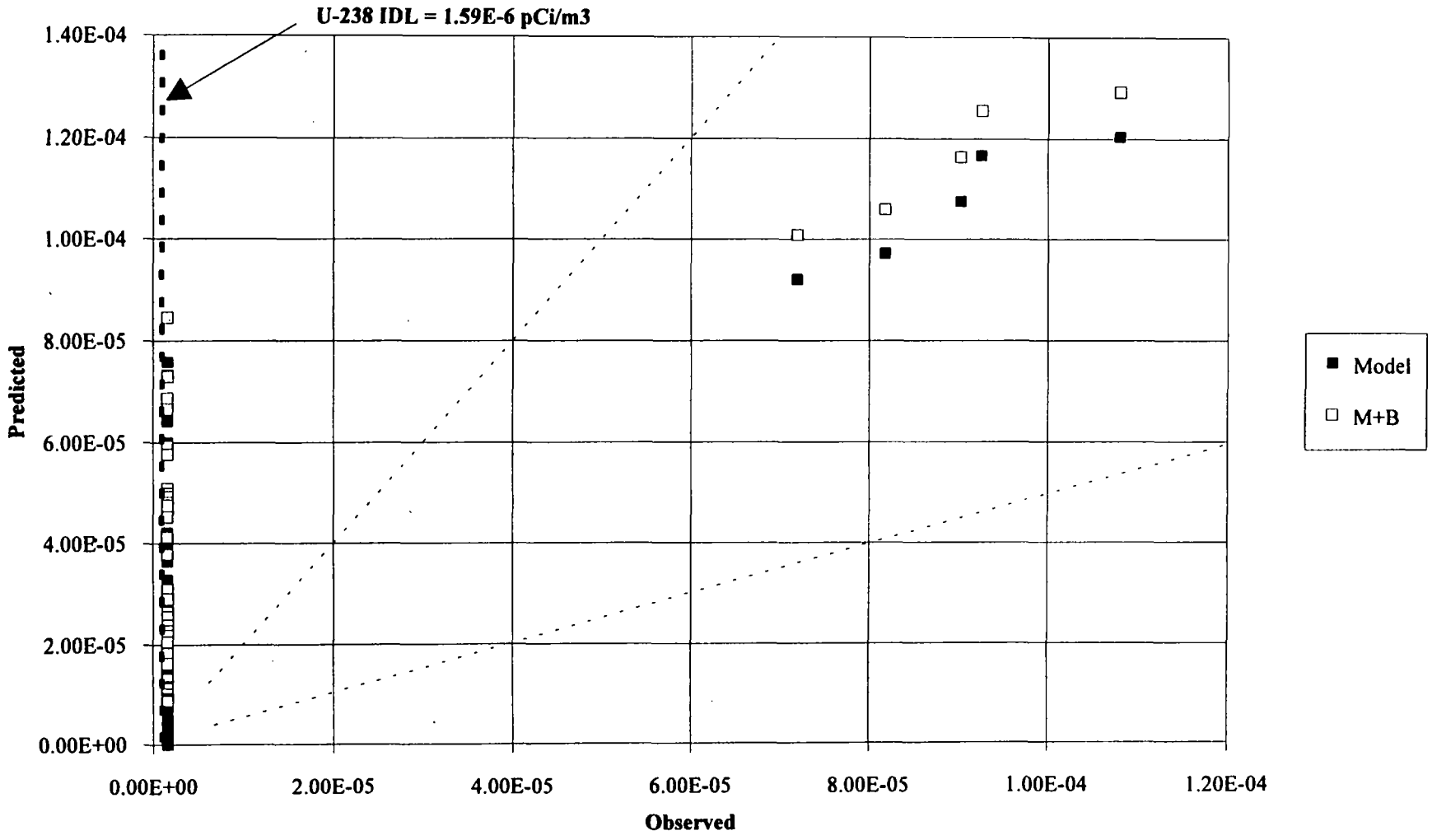


Figure AI-2-88
24-hour Uranium-238 for Site 4 Oct. 1, 1993 to September 30, 1994

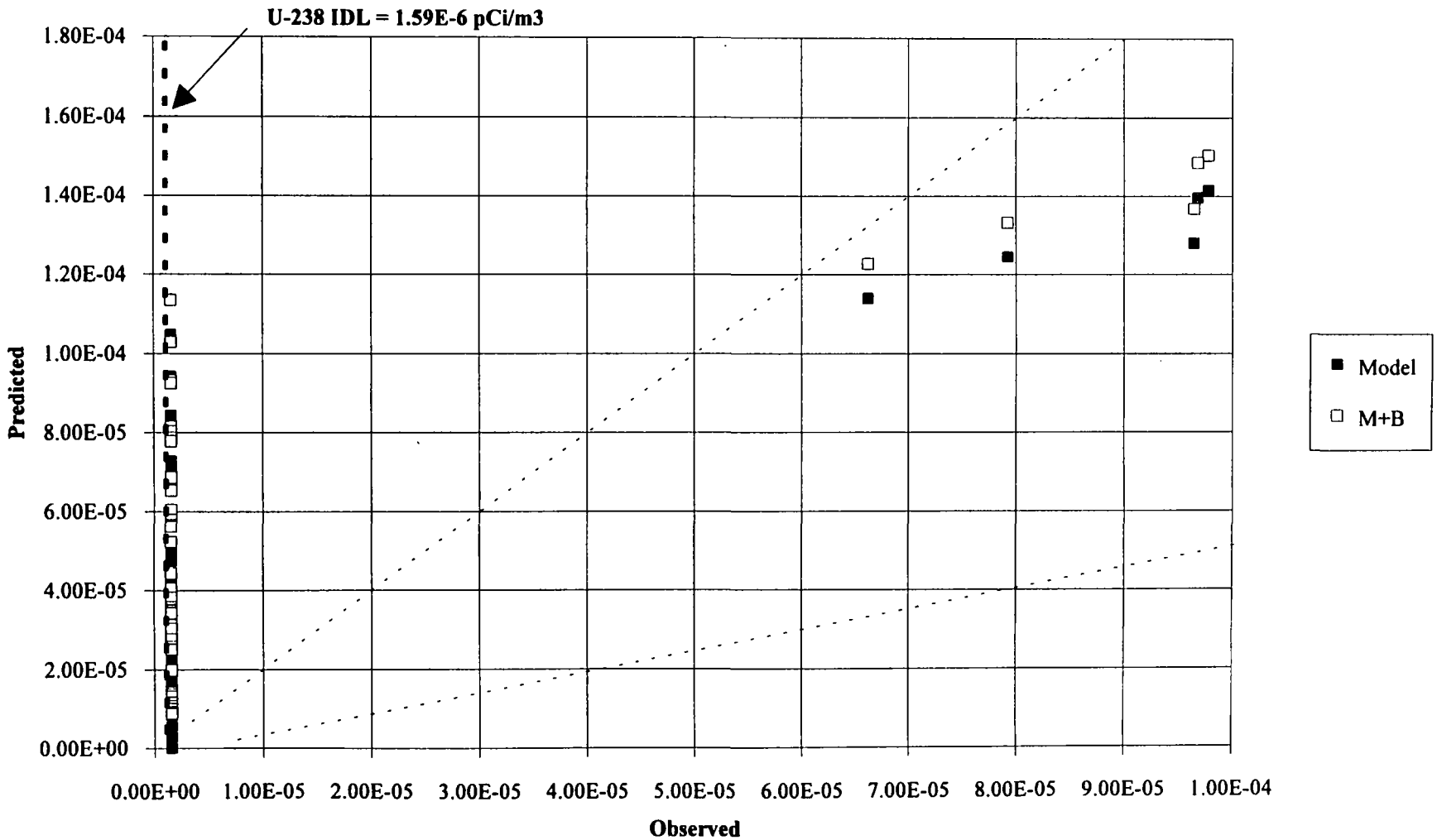


Figure AI-2-89
24-hour Uranium-238 for Site 5 Oct. 1, 1993 to September 30, 1994

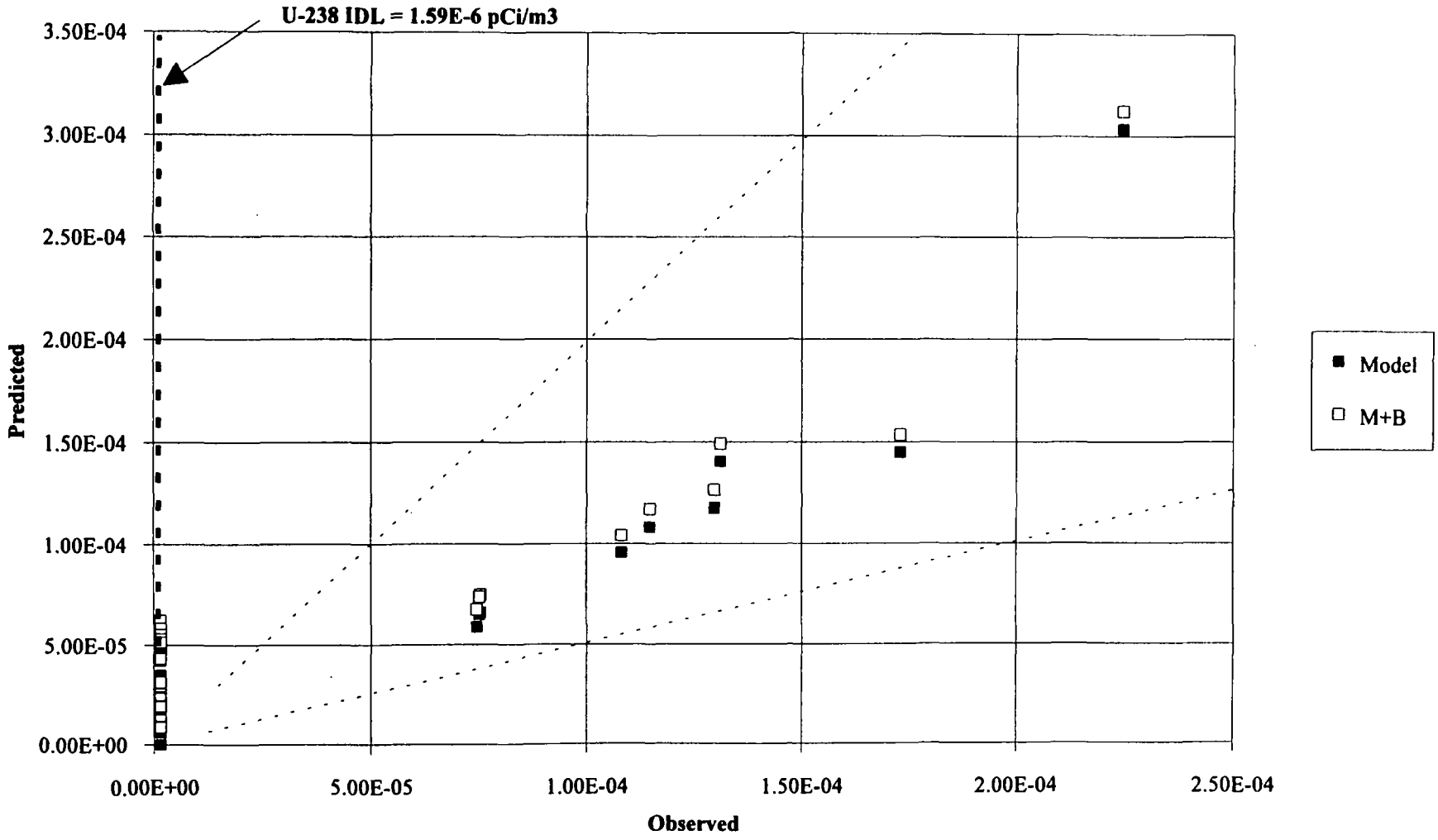


Figure AI-2-90
24-hour Uranium-238 for Site 6 Oct. 1, 1993 to September 30, 1994

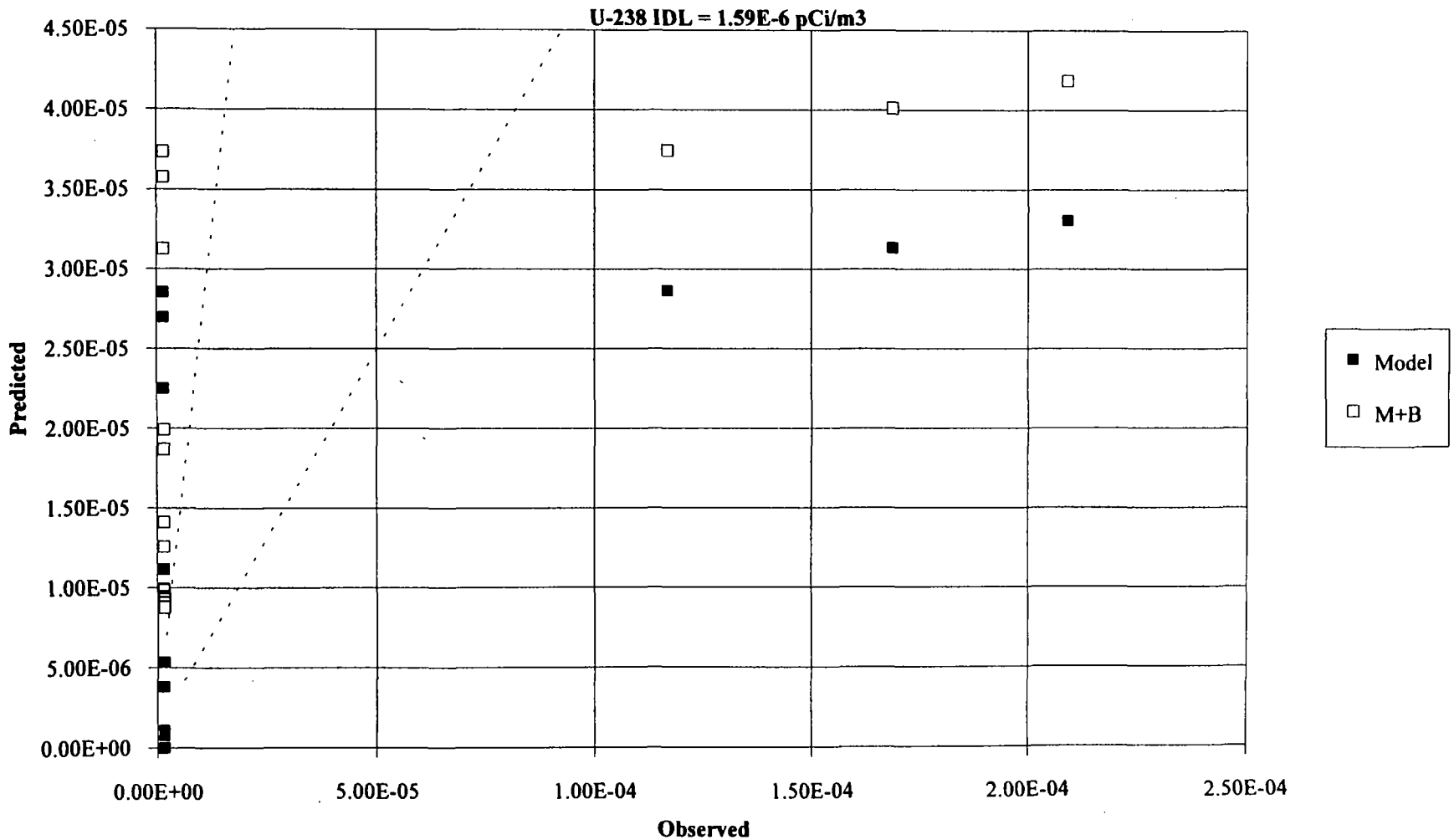


Figure AI-2-91
24-hour Uranium-238 for Site 7 Oct. 1, 1993 to September 30, 1994

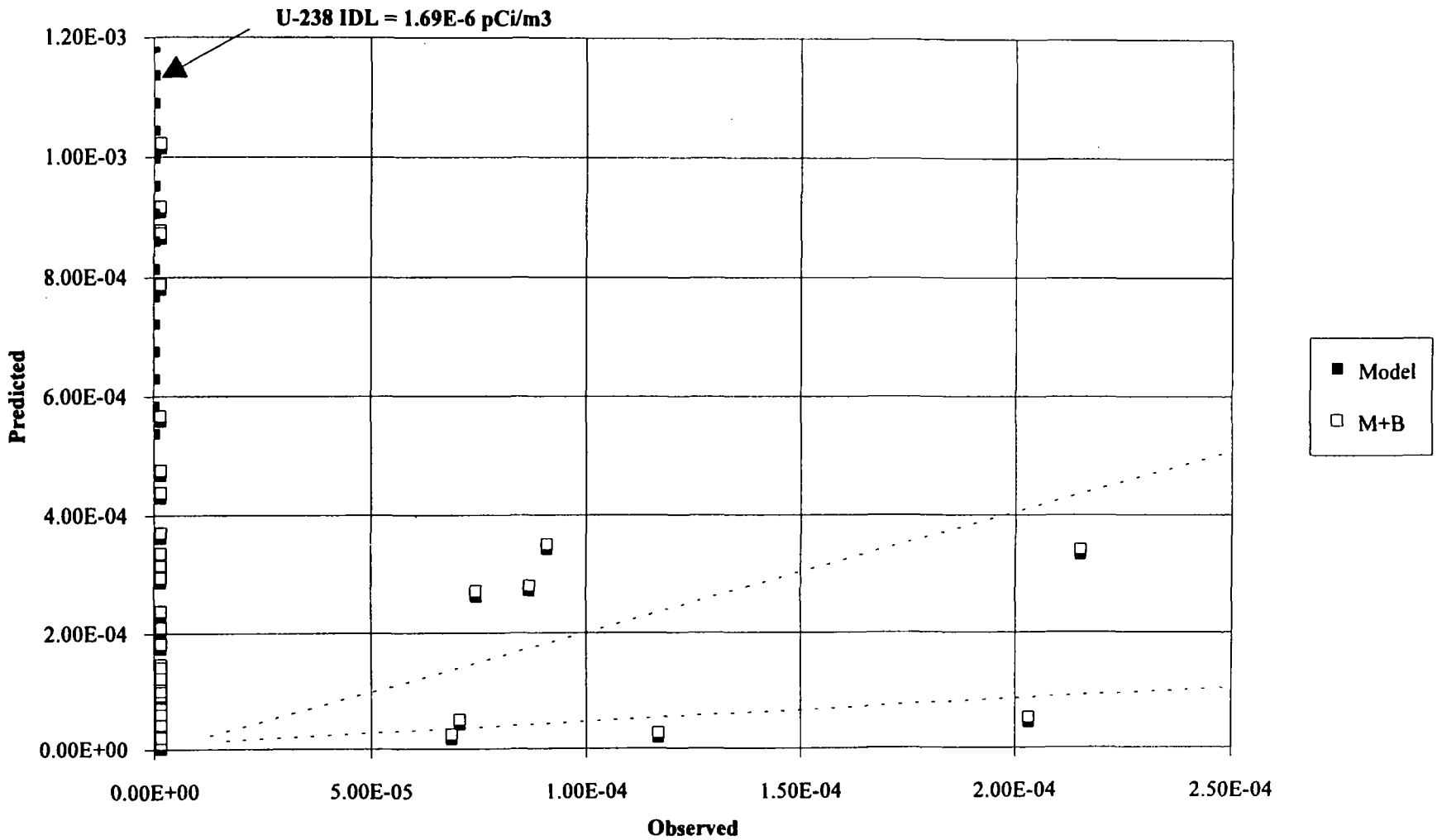


Figure AI-2-92
24-hour PM10 for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

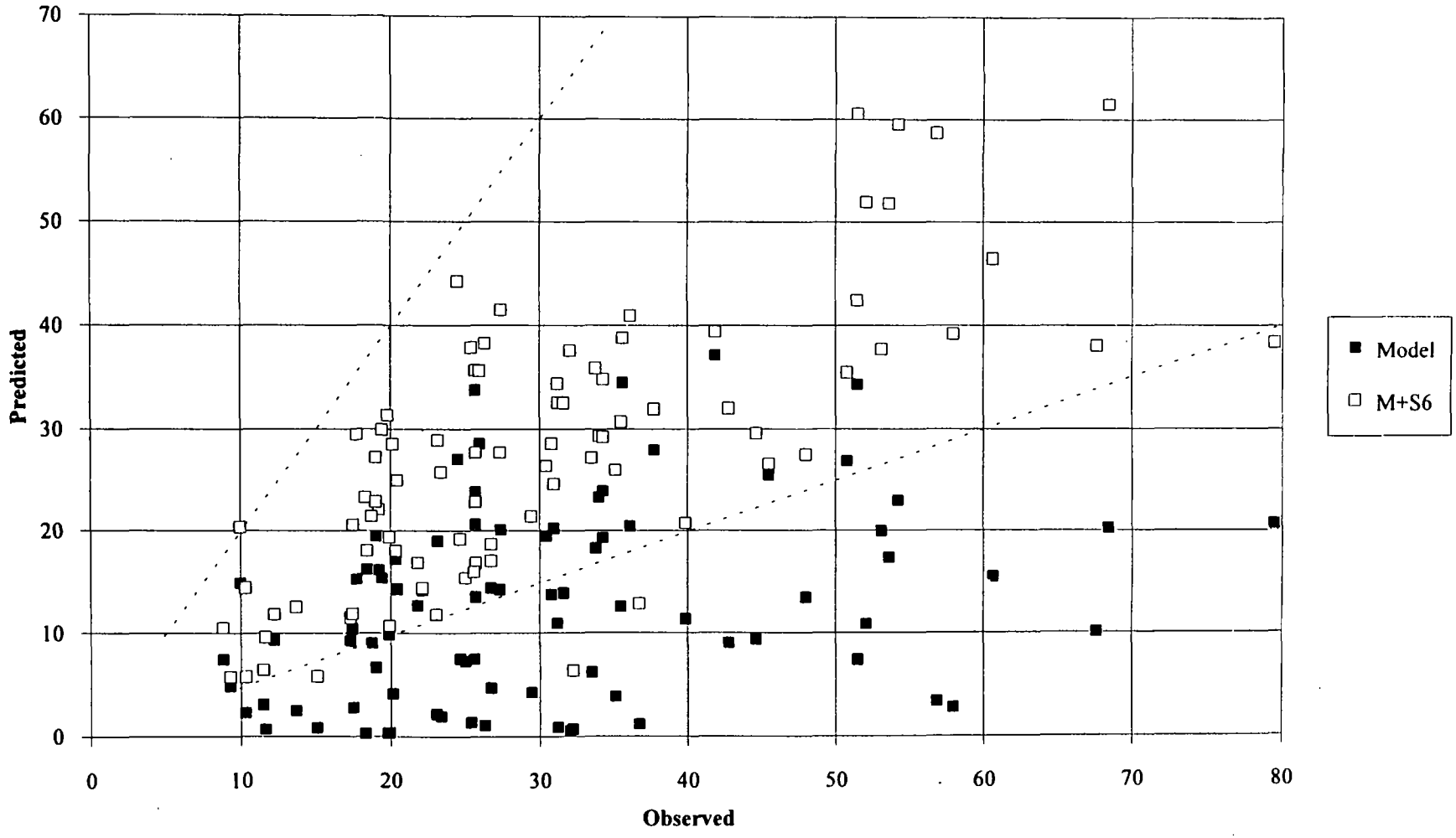


Figure AI-2-93
24-hour PM10 for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

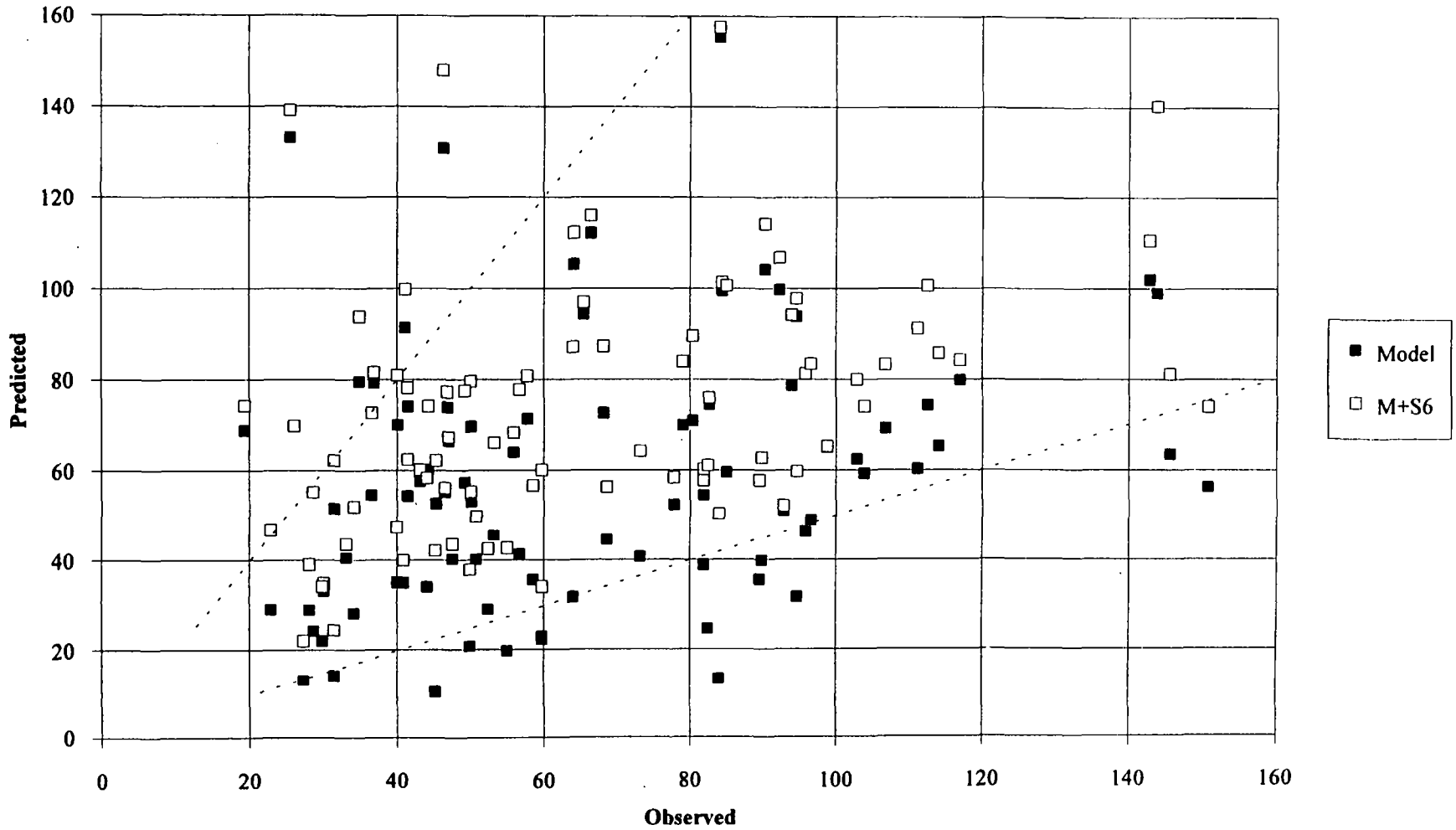


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Figure AI-2-94
24-hour PM10 for Site 3 Oct. 1, 1993 to June 24, 1994 (Paired Data, Upwind/Downwind Data)

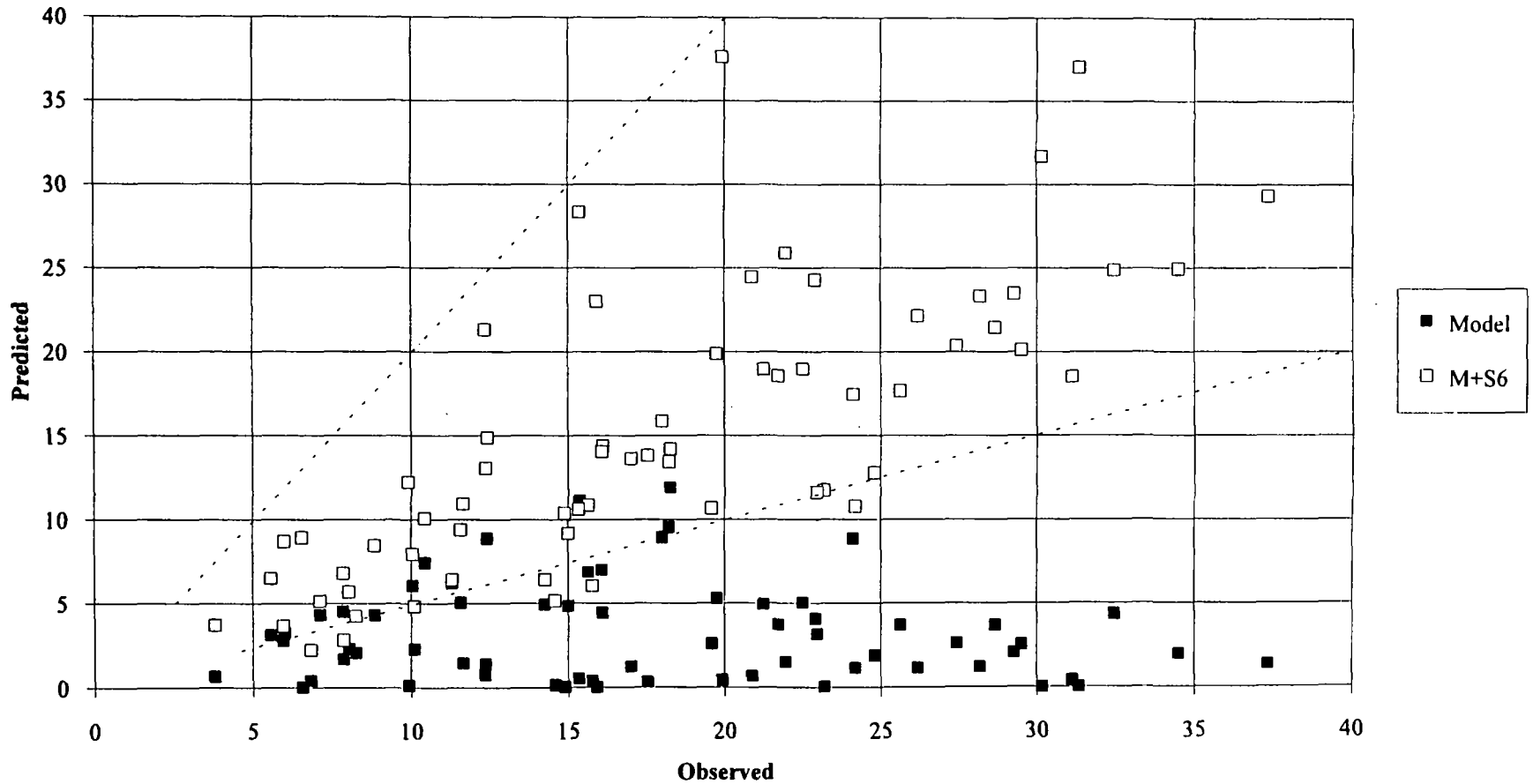
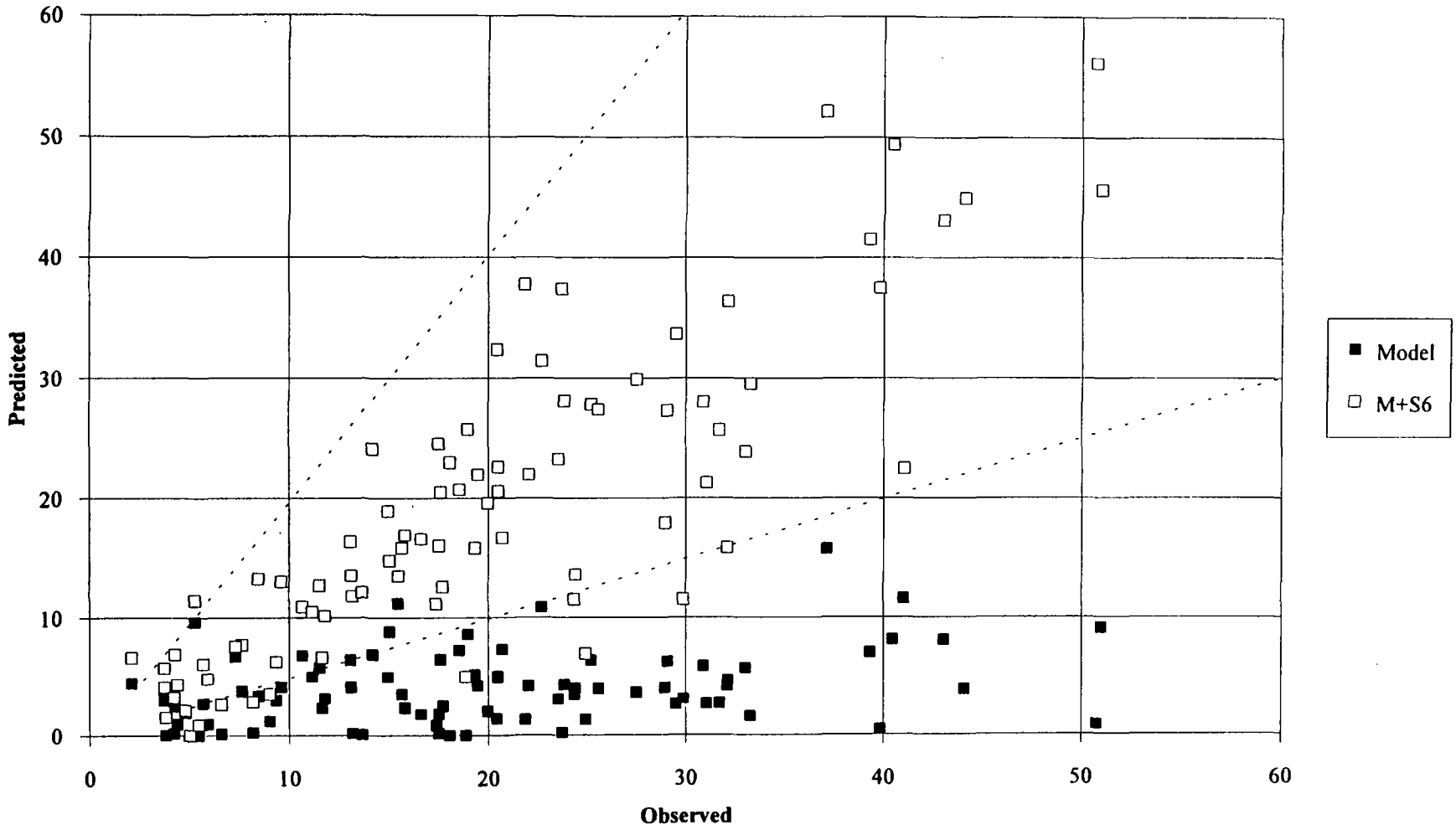


Figure AI-2-95
24-hour PM10 for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)



PMTSP_N.XLS Chart 56

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Figure AI-2-96
24-hour PM10 for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

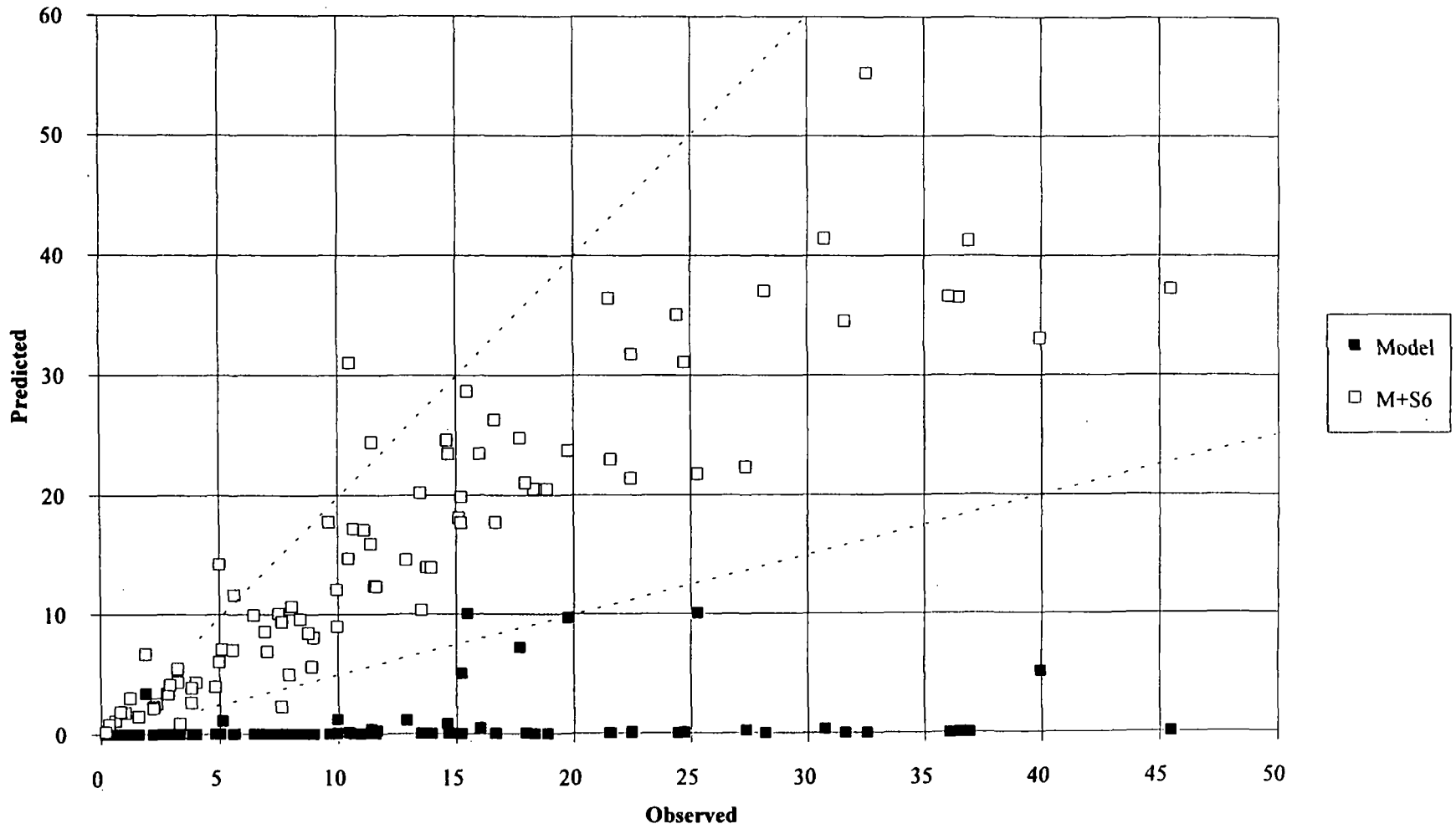

Figure AI-2-97
24-hour PM10 for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

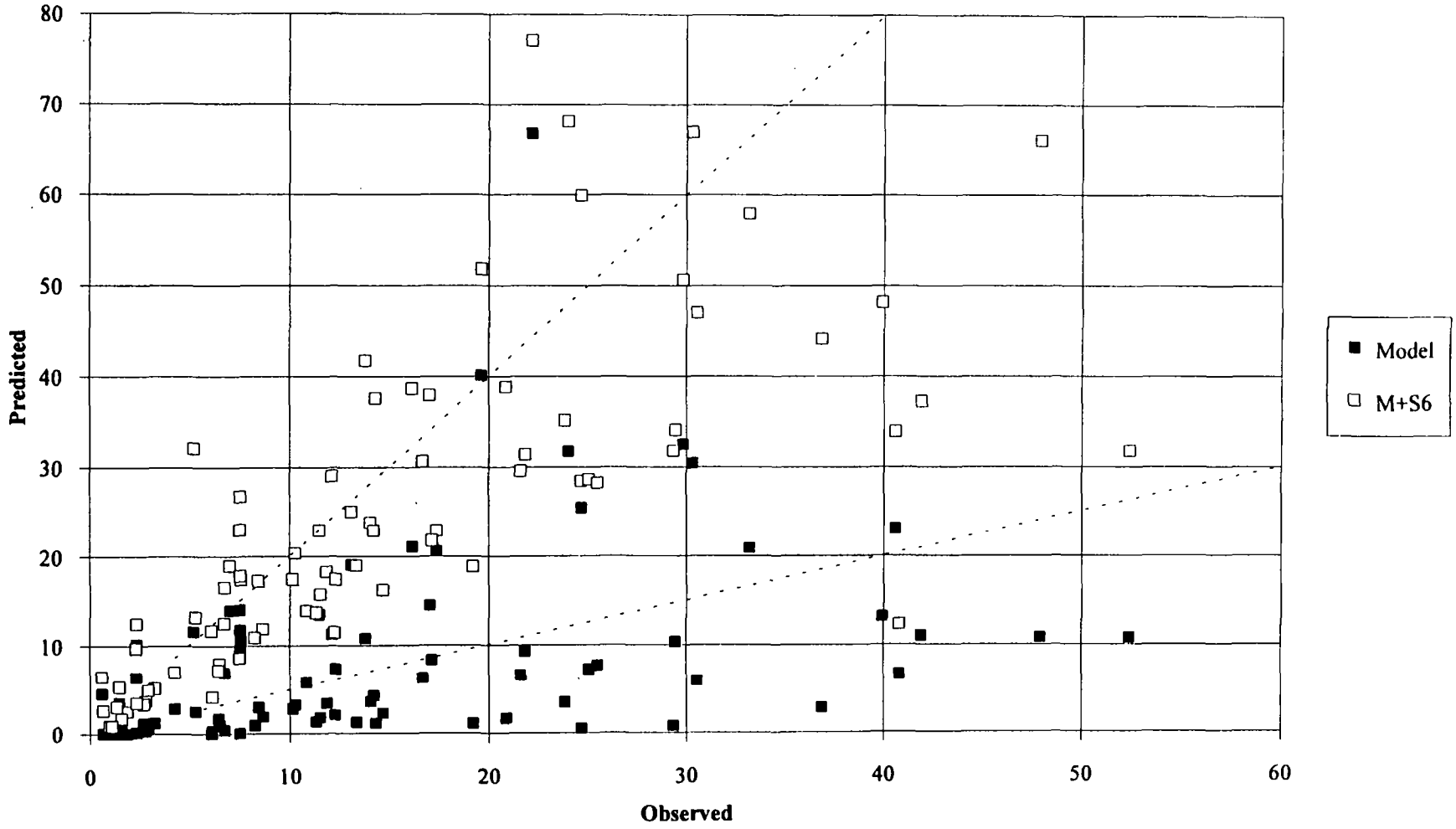

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Figure AI-2-98
24-hour TSP for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

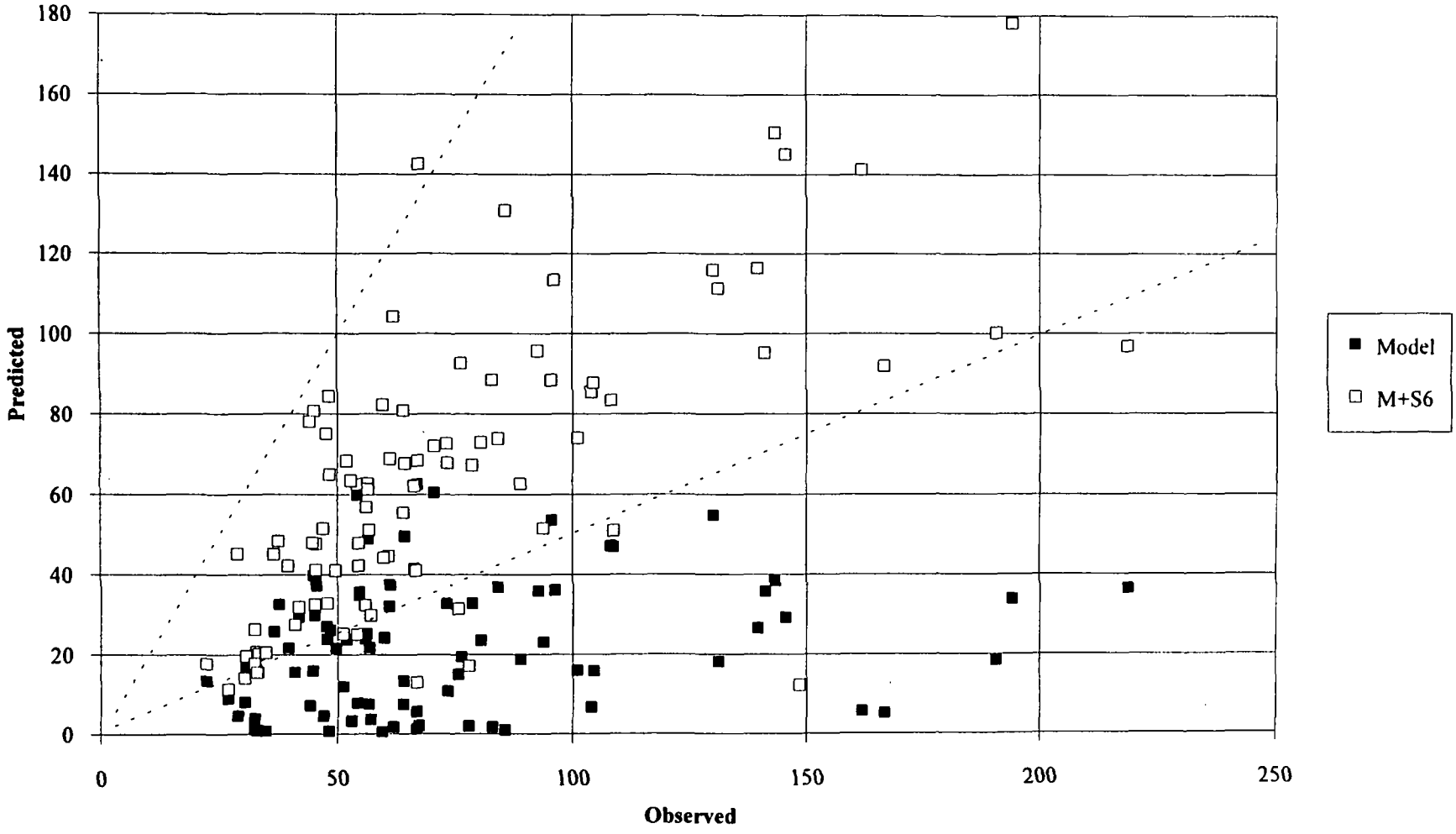

Figure AI-2-99
24-hour TSP for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

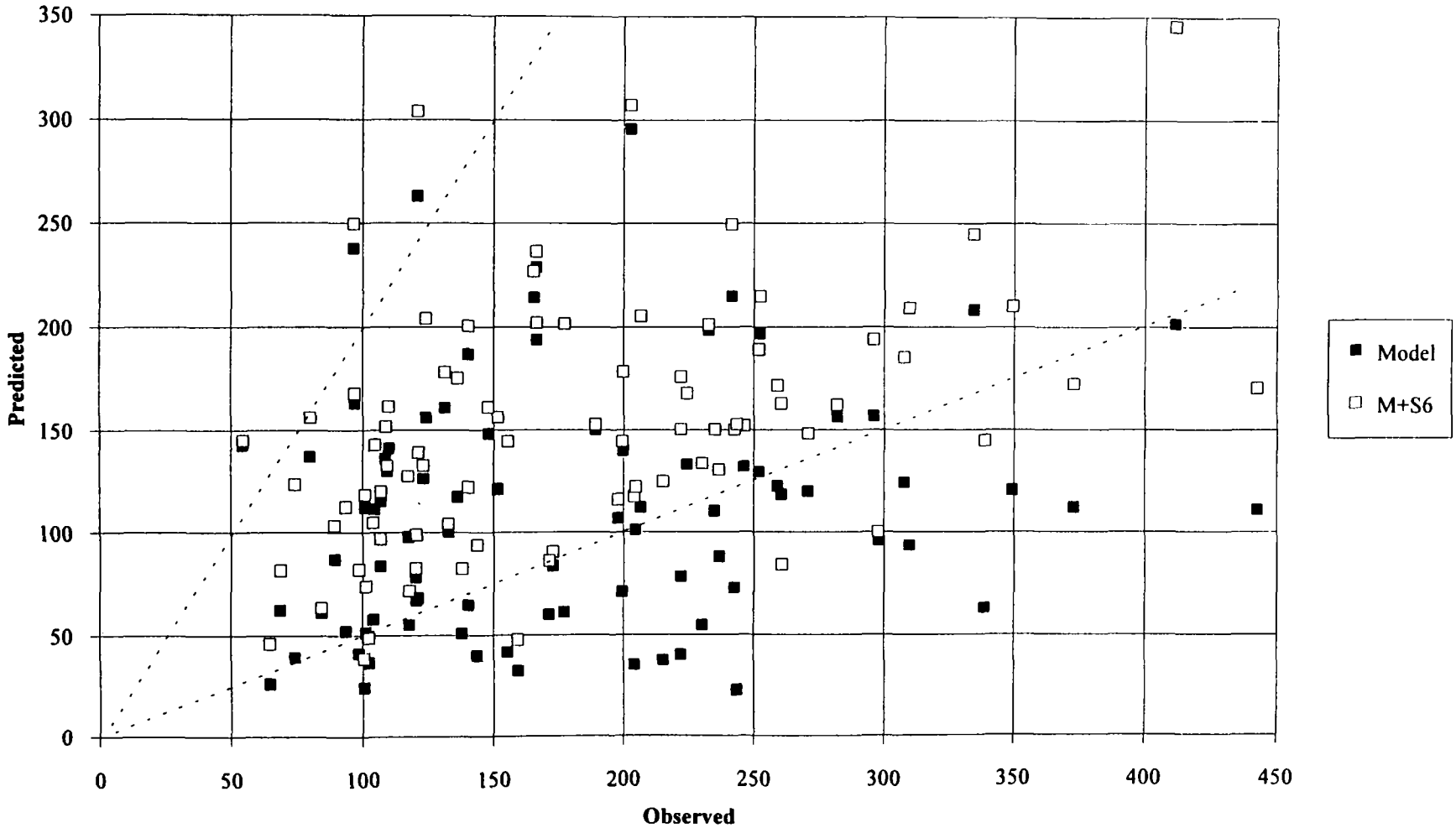

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Figure AI-2-100
24-hour TSP for Site 3 Oct. 1, 1993 to June 24, 1994 (Paired Data, Upwind/Downwind Data)

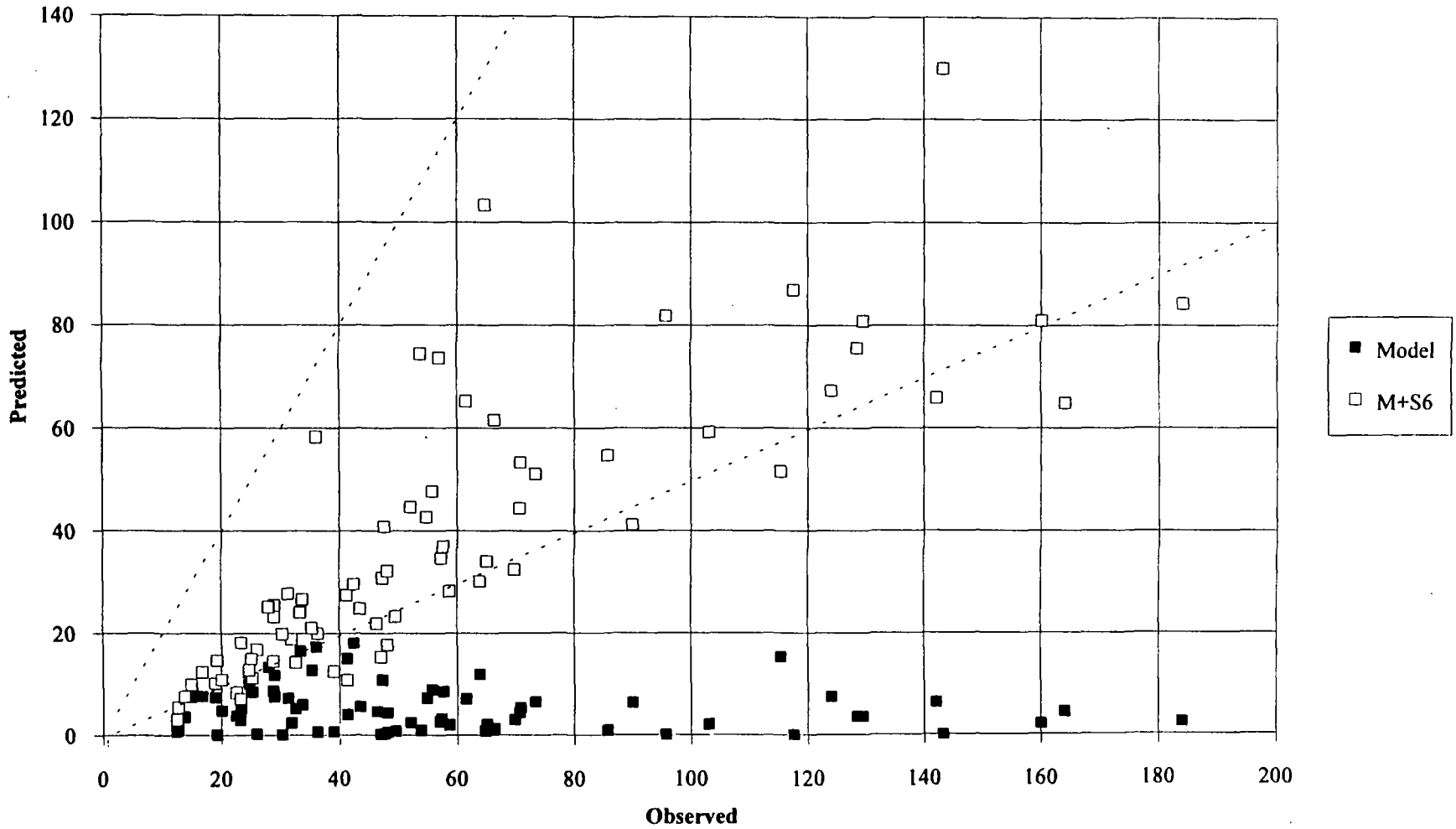

Figure AI-2-101
24-hour TSP for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

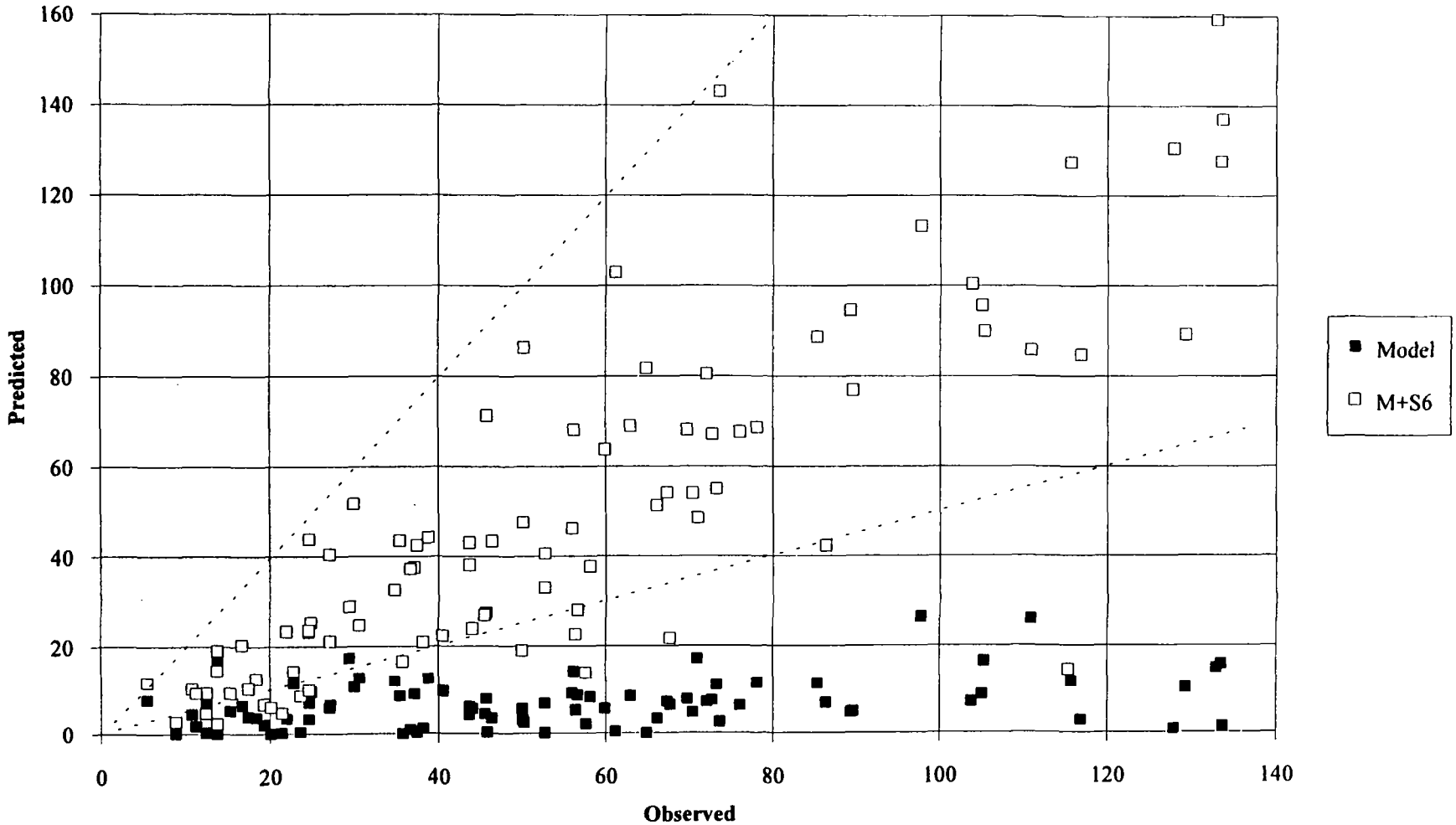

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Figure AI-2-102
24-hour TSP for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

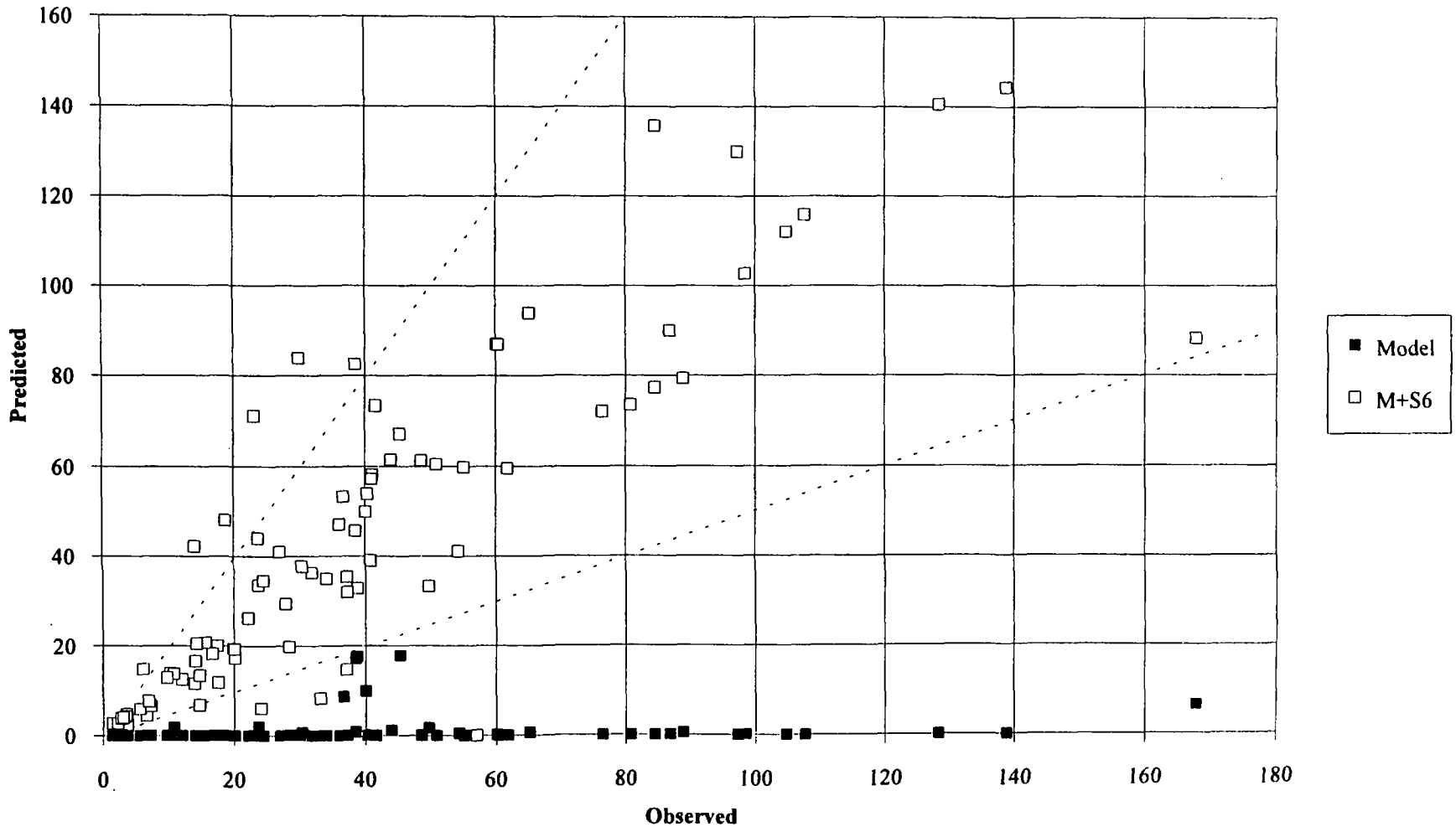

Figure AI-2-103
24-hour TSP for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

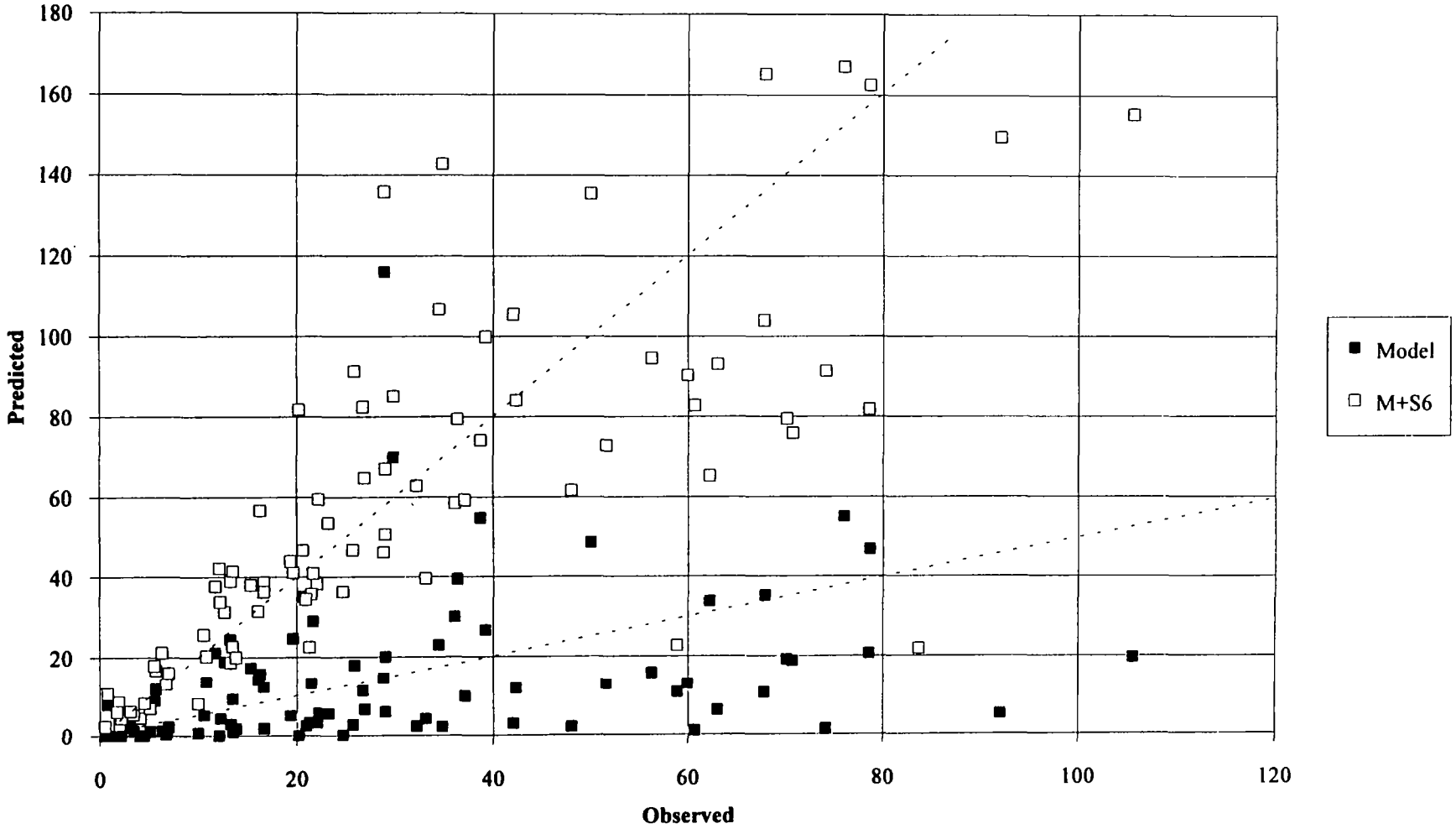

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Figure AI-2-104
24-hour Arsenic for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

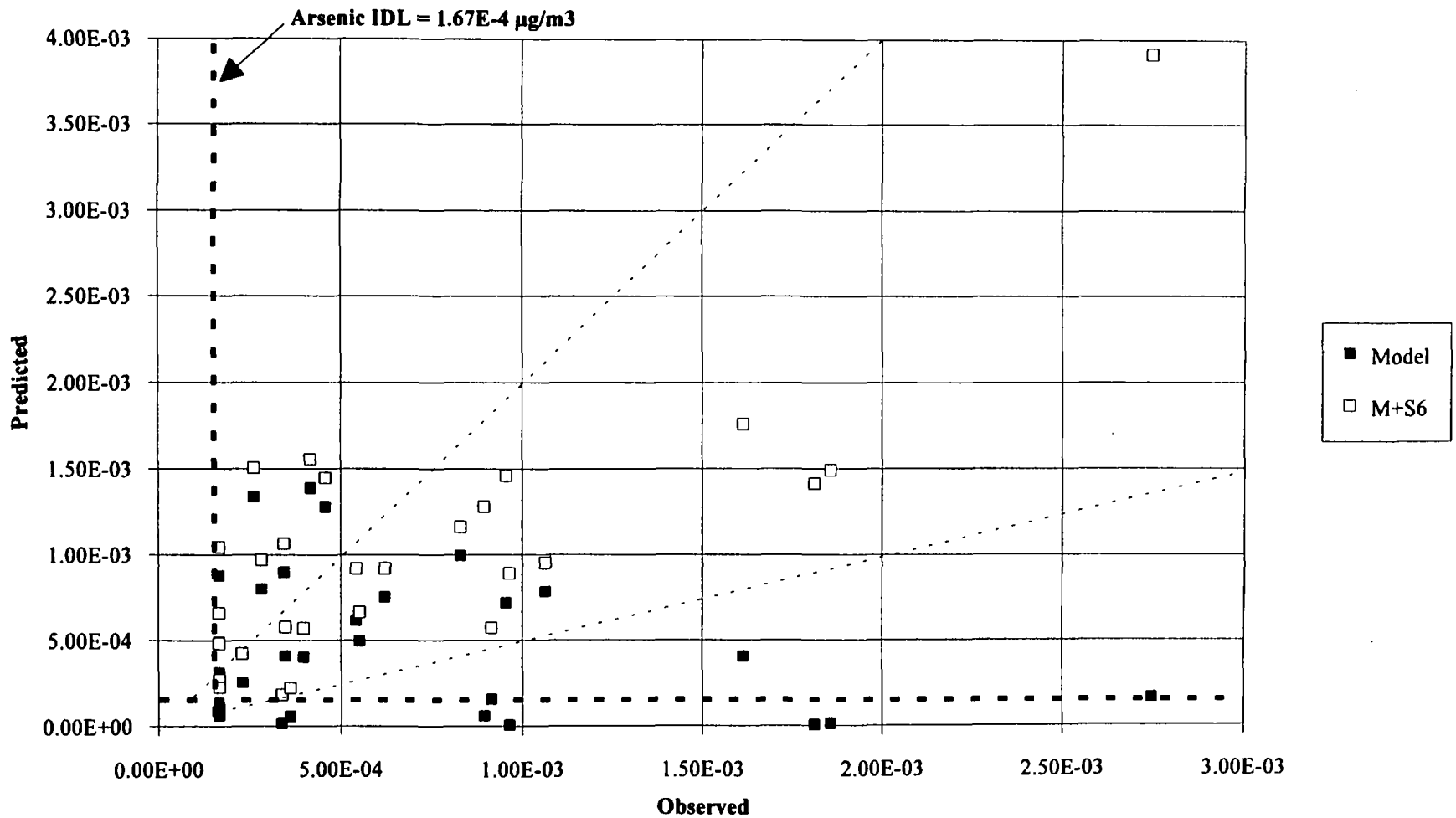


Figure AI-2-105
24-hour Arsenic for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

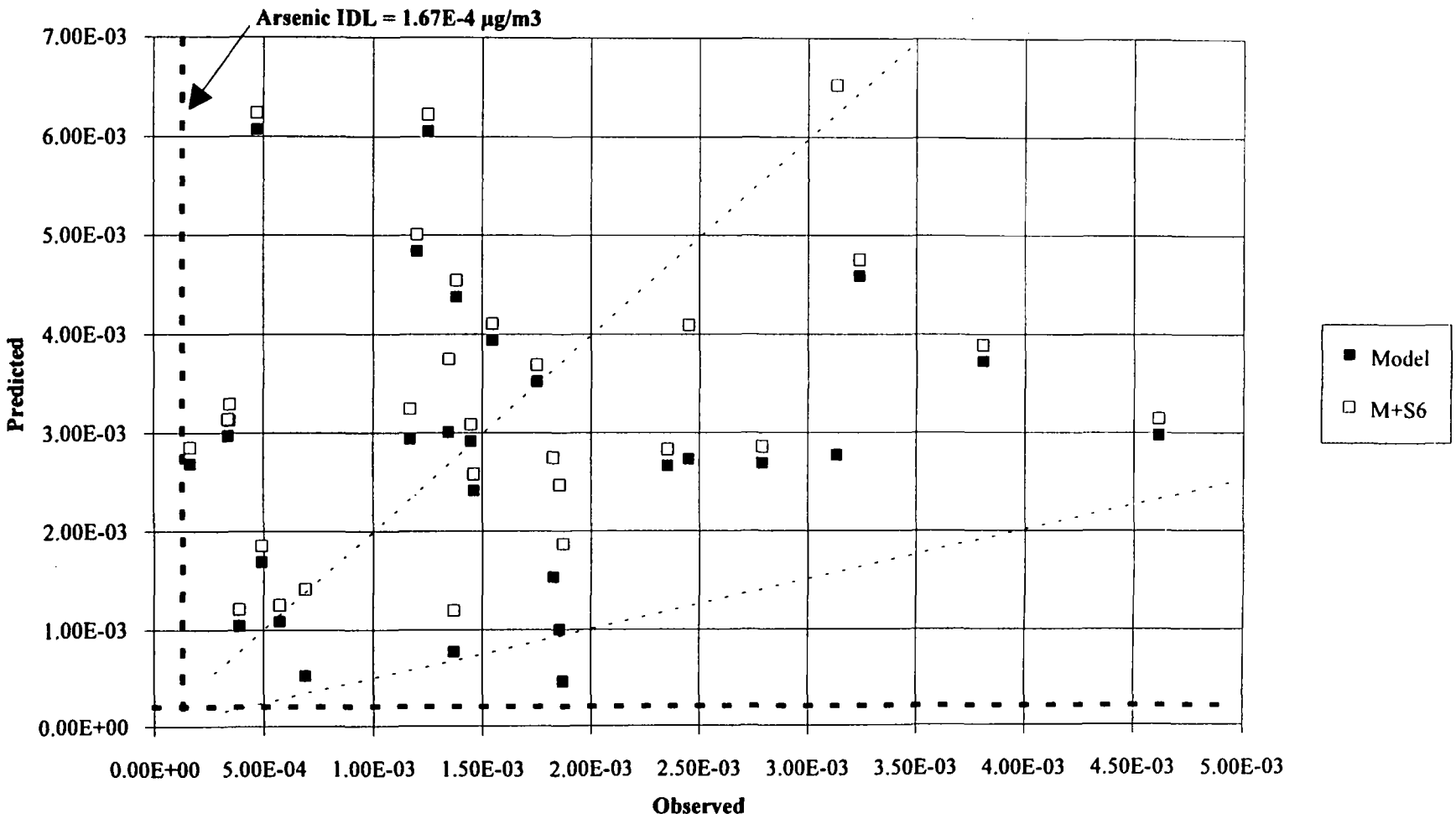


Figure AI-2-106
24-hour Arsenic for Site 3 Oct. 1, 1993 to June 24, 1994 (Paired Data, Upwind/Downwind Data)

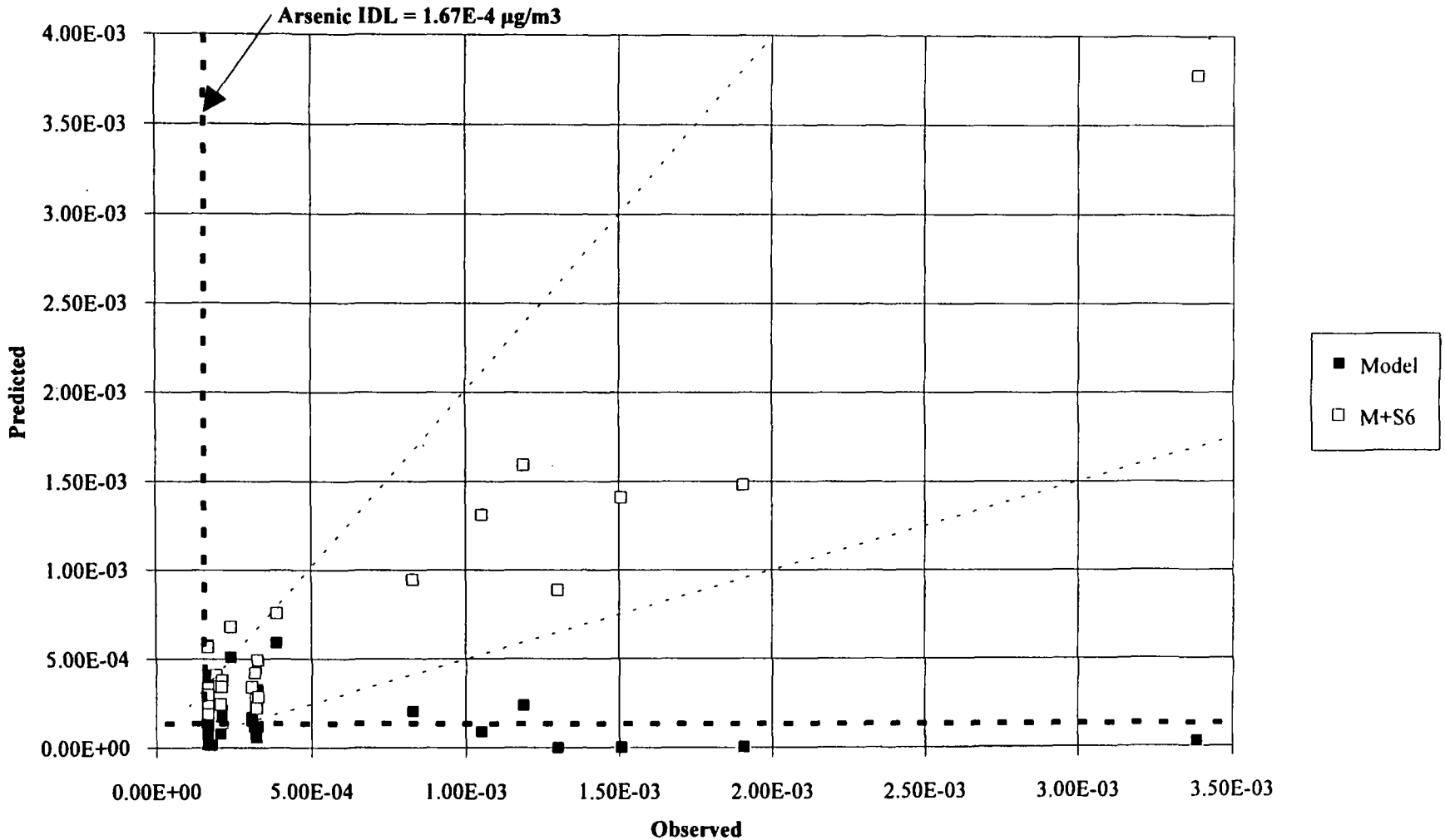


Figure AI-2-107
24-hour Arsenic for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

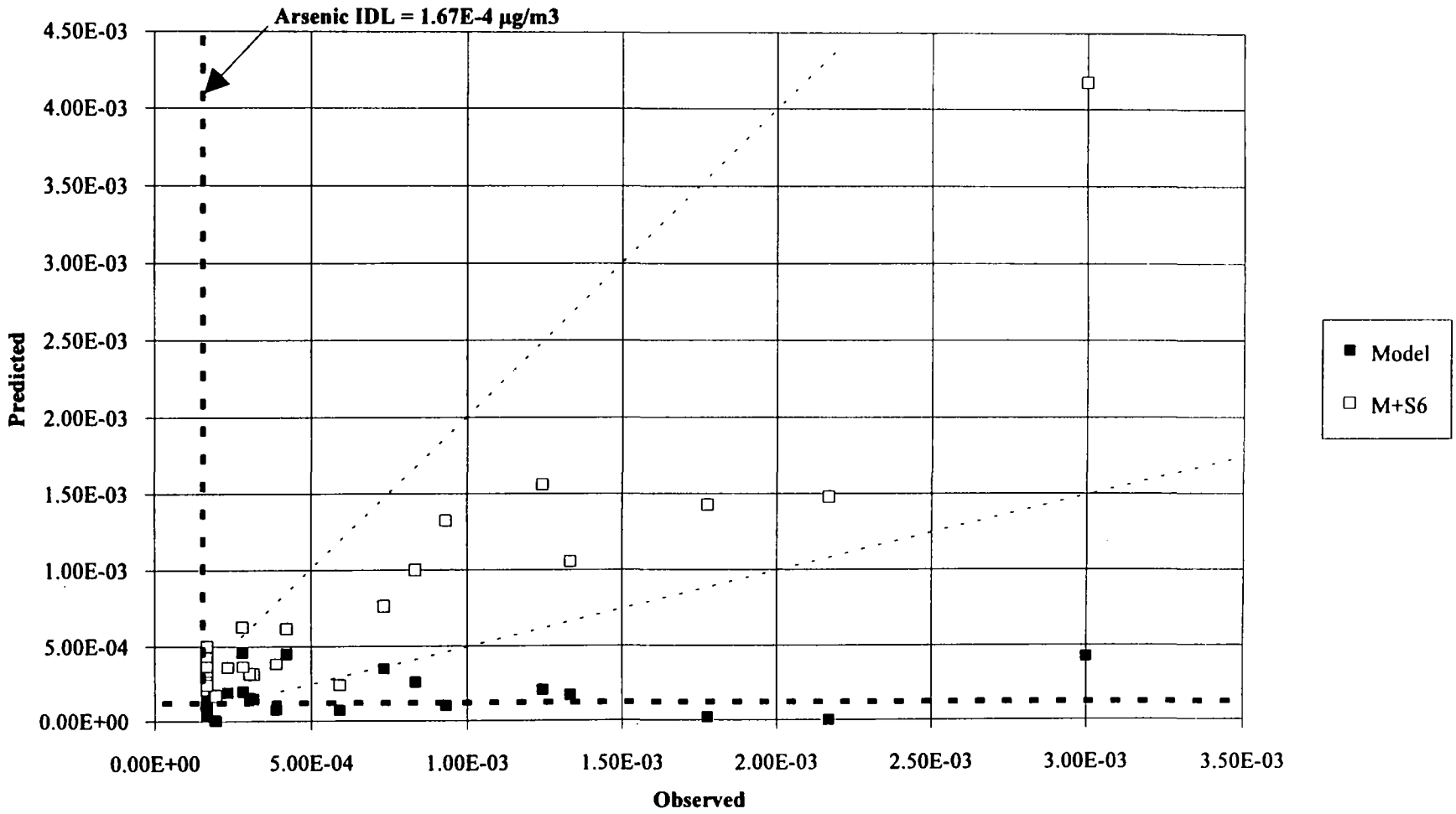


Figure AI-2-108
24-hour Arsenic for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

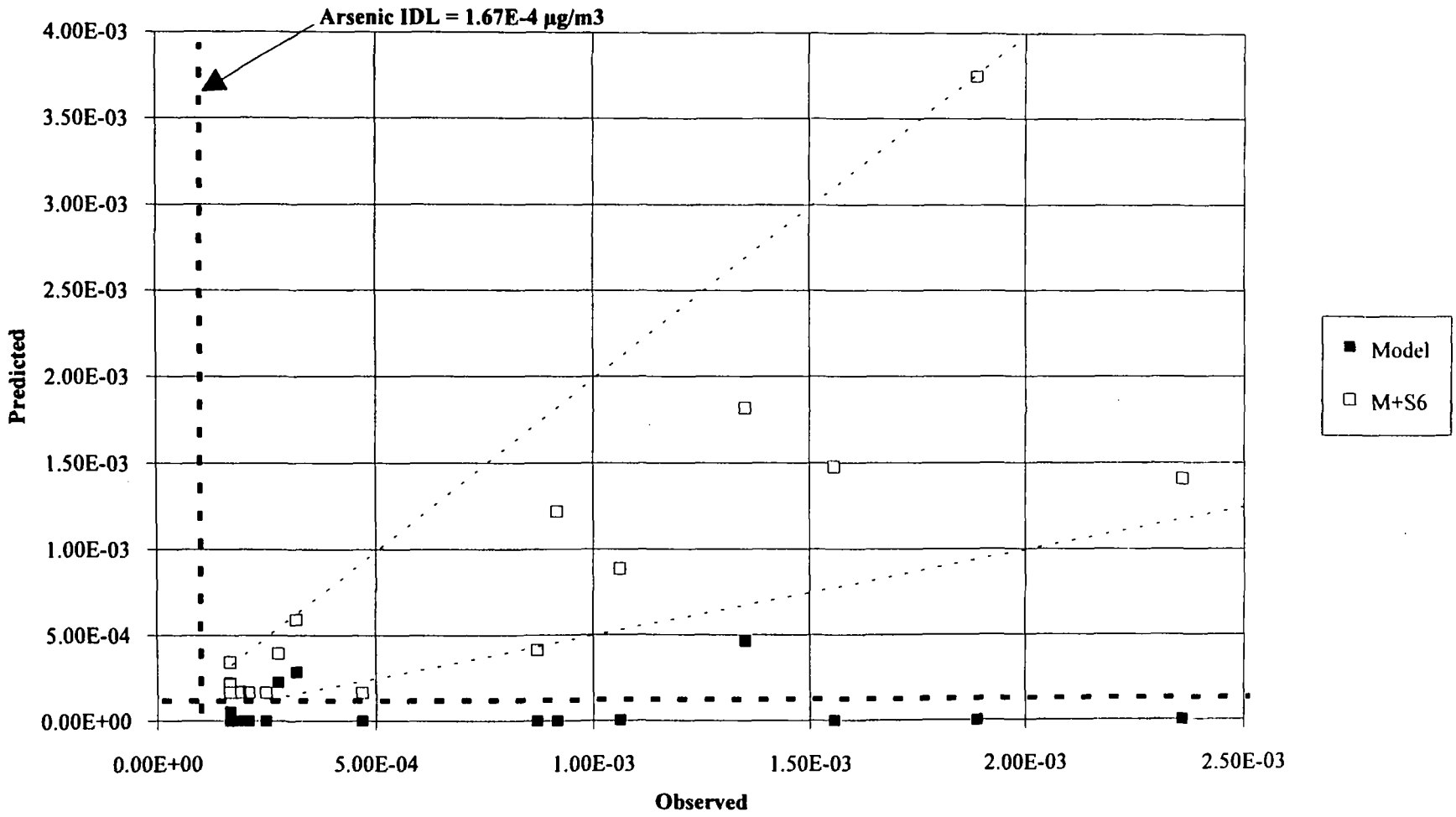


Figure AI-2-109
24-hour Arsenic for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

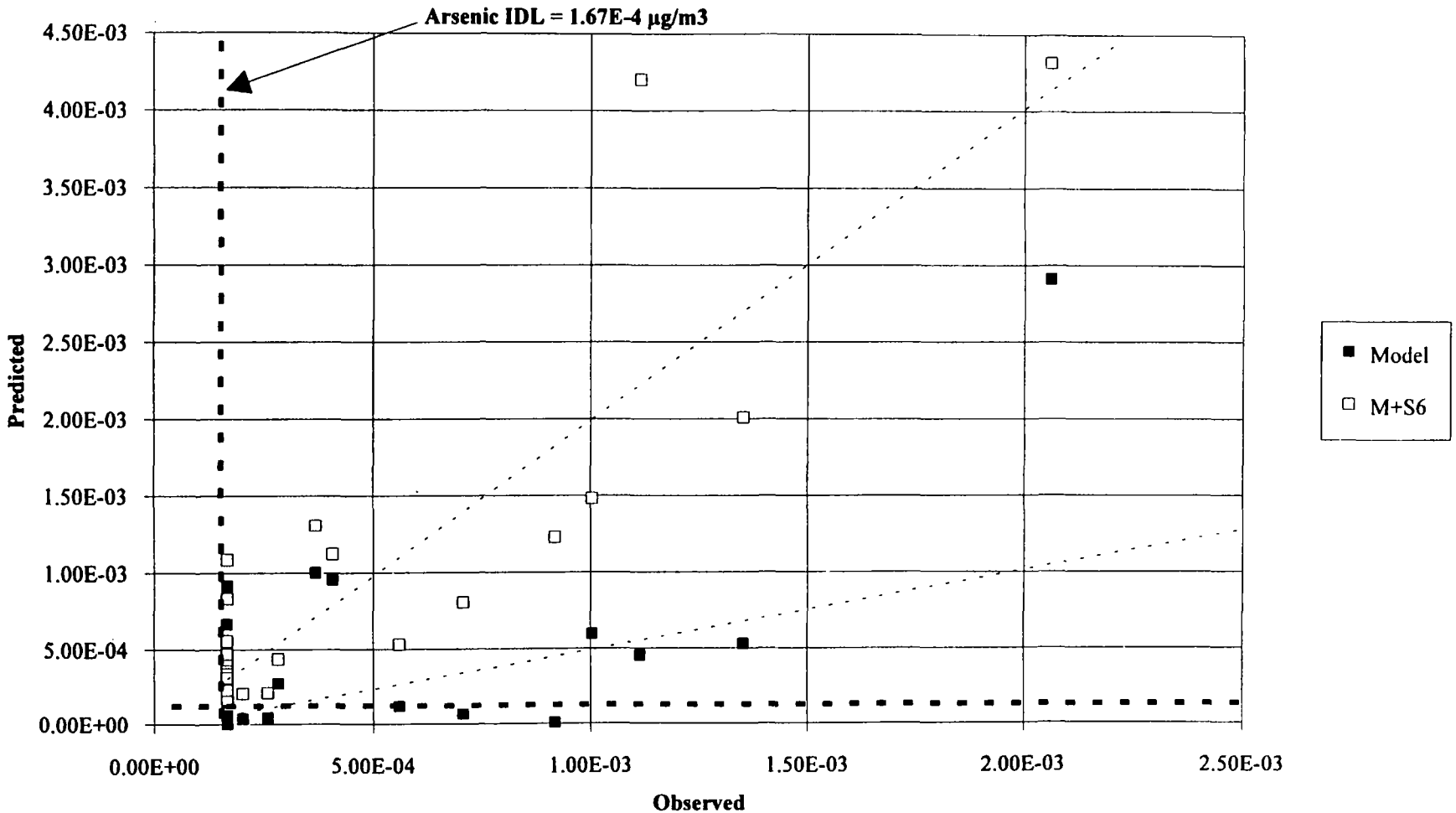


Figure AI-2-110
24-hour Beryllium for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

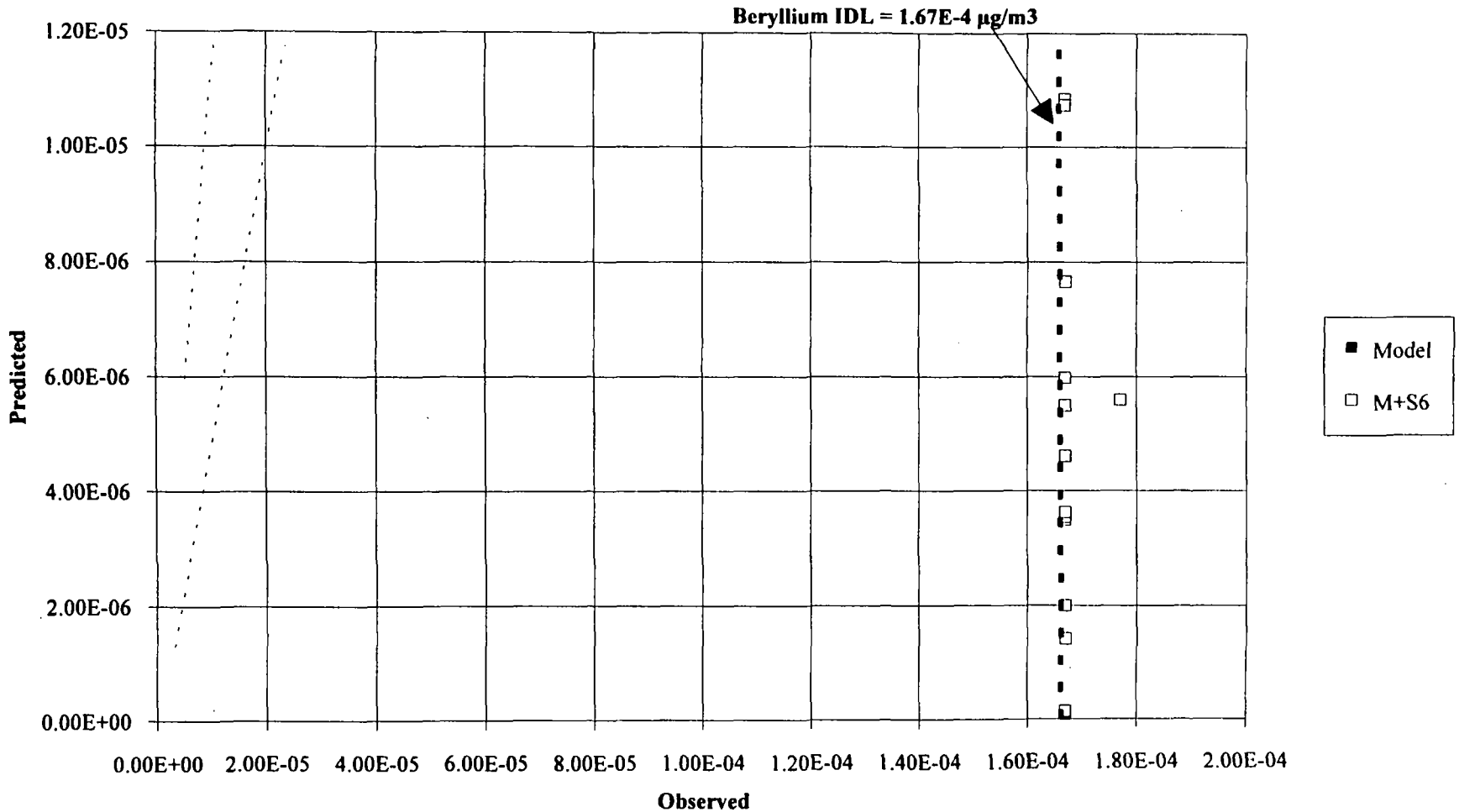


Figure AI-2-111
24-hour Beryllium for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

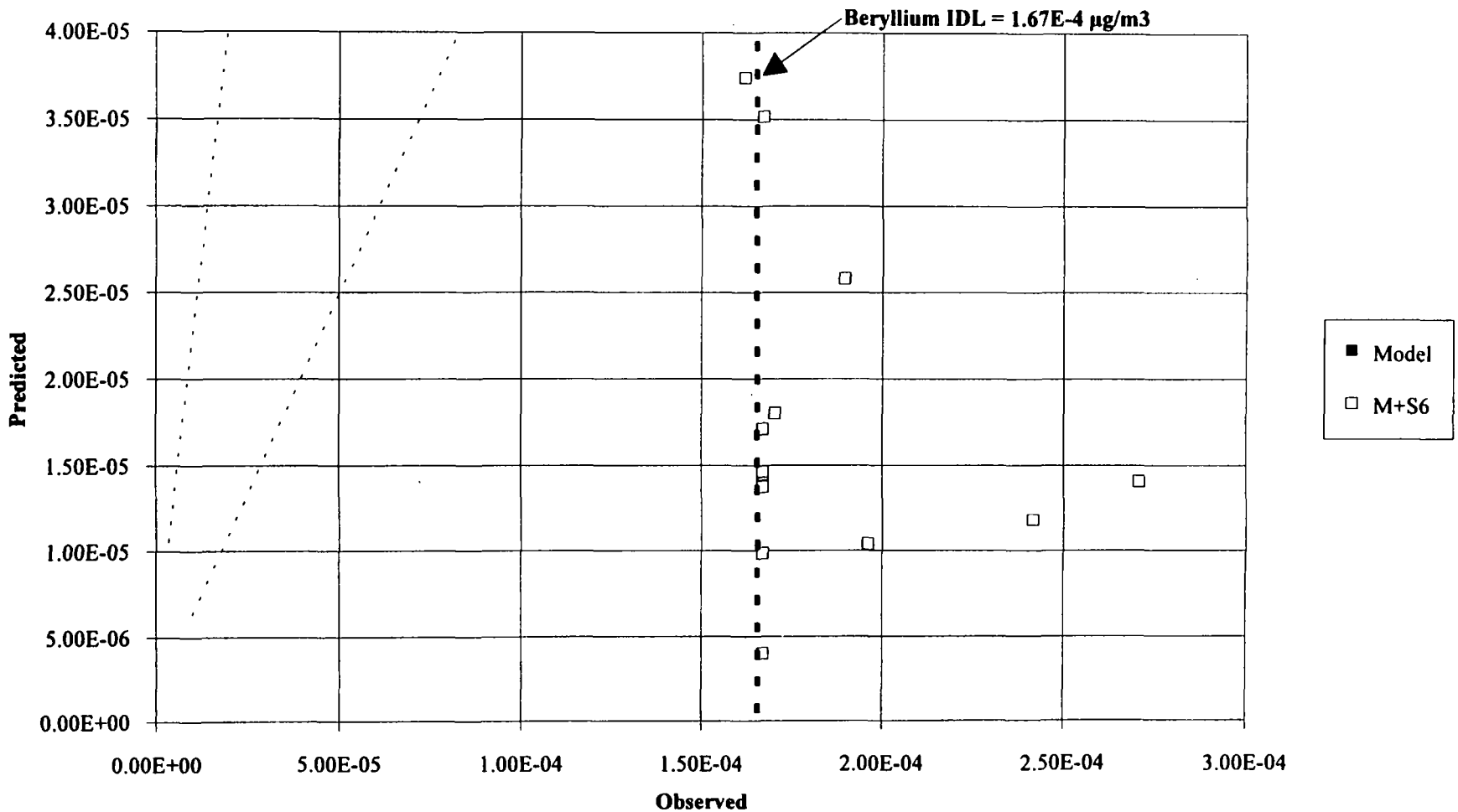
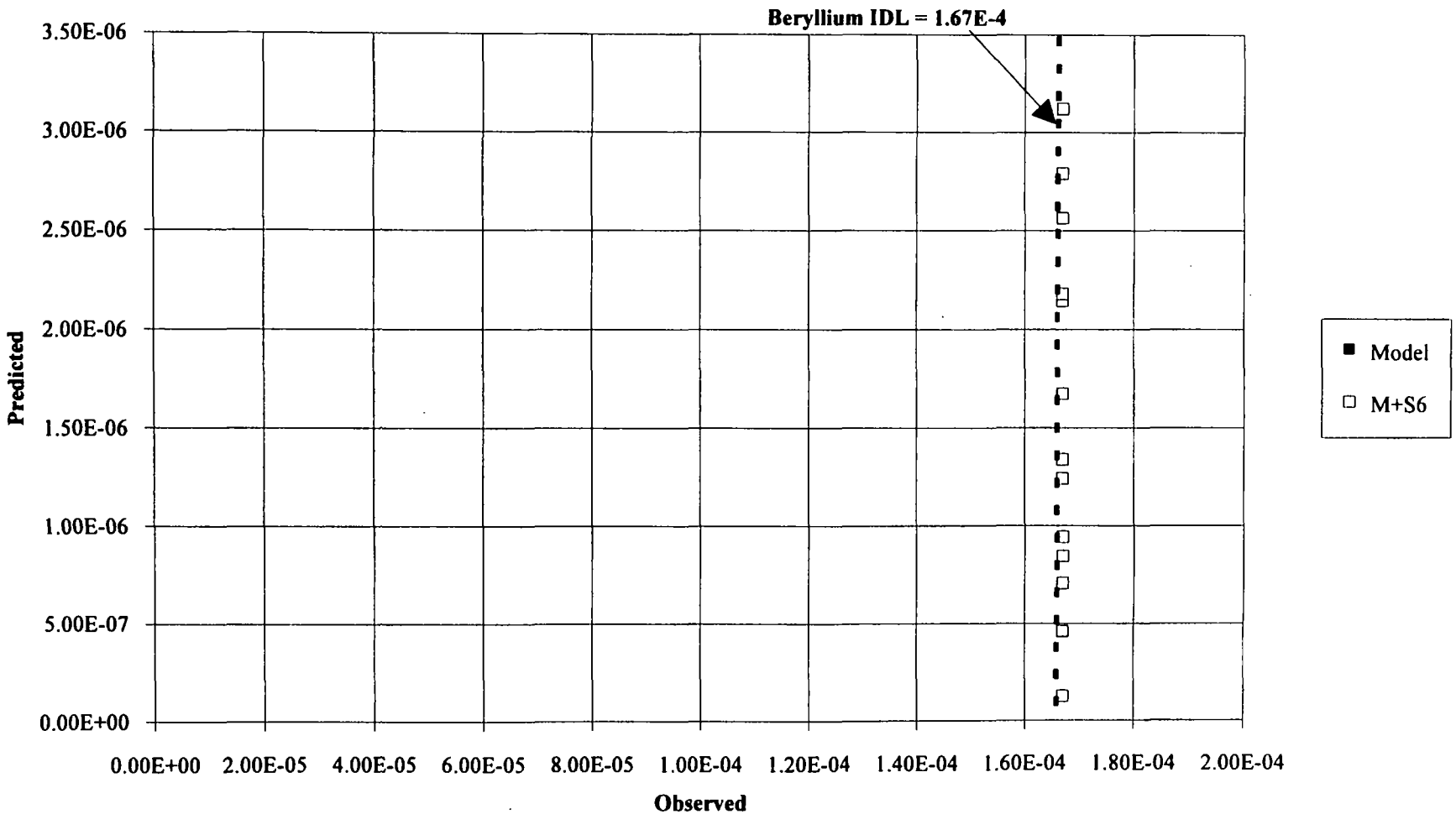


Figure AI-2-112
24-hour Beryllium for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)



The predicted concentrations are much less than a factor of two lower than observed concentrations.

Figure AI-2-113
24-hour Cadmium for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

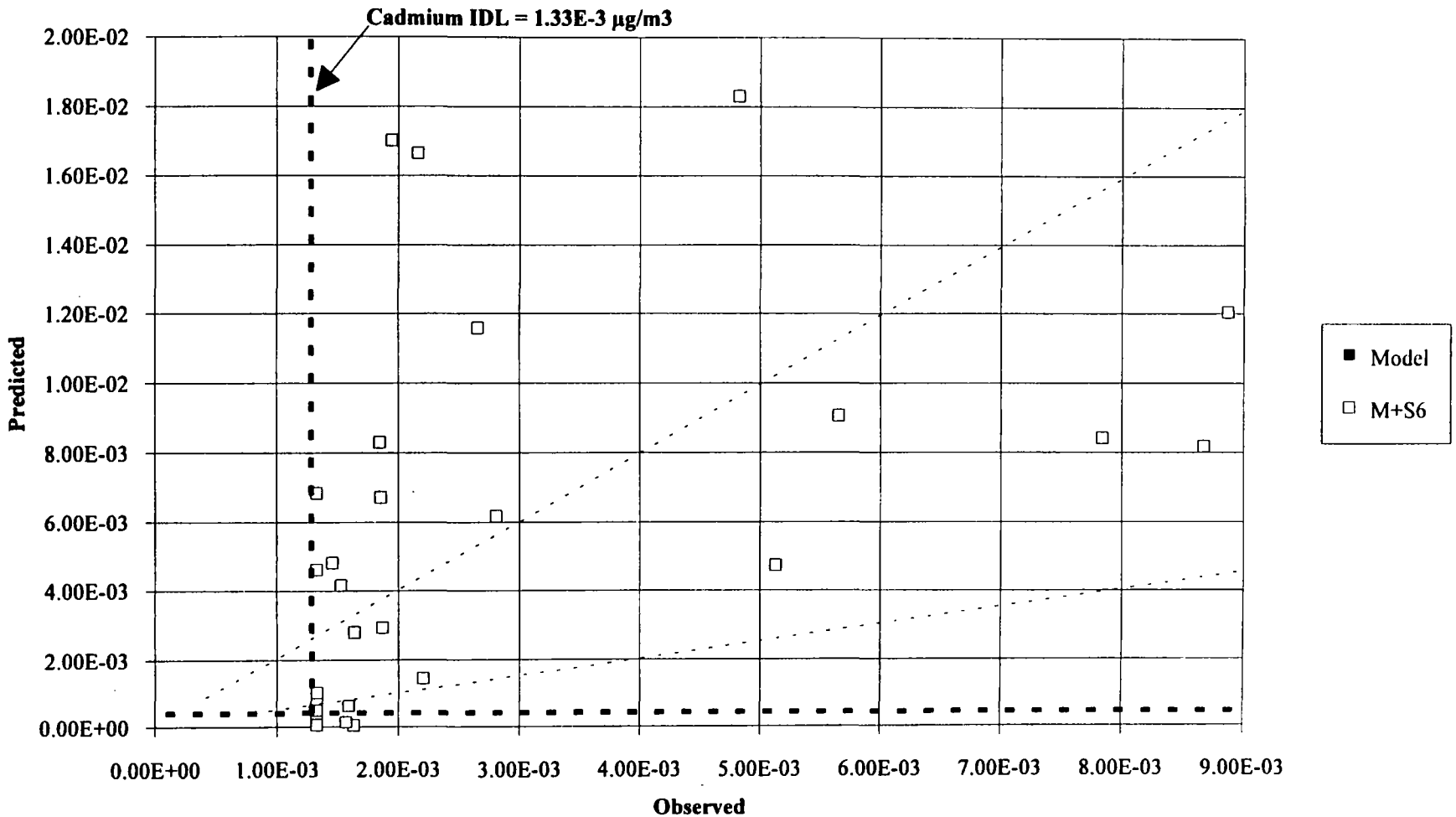


Figure AI-2-114
24-hour Cadmium for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

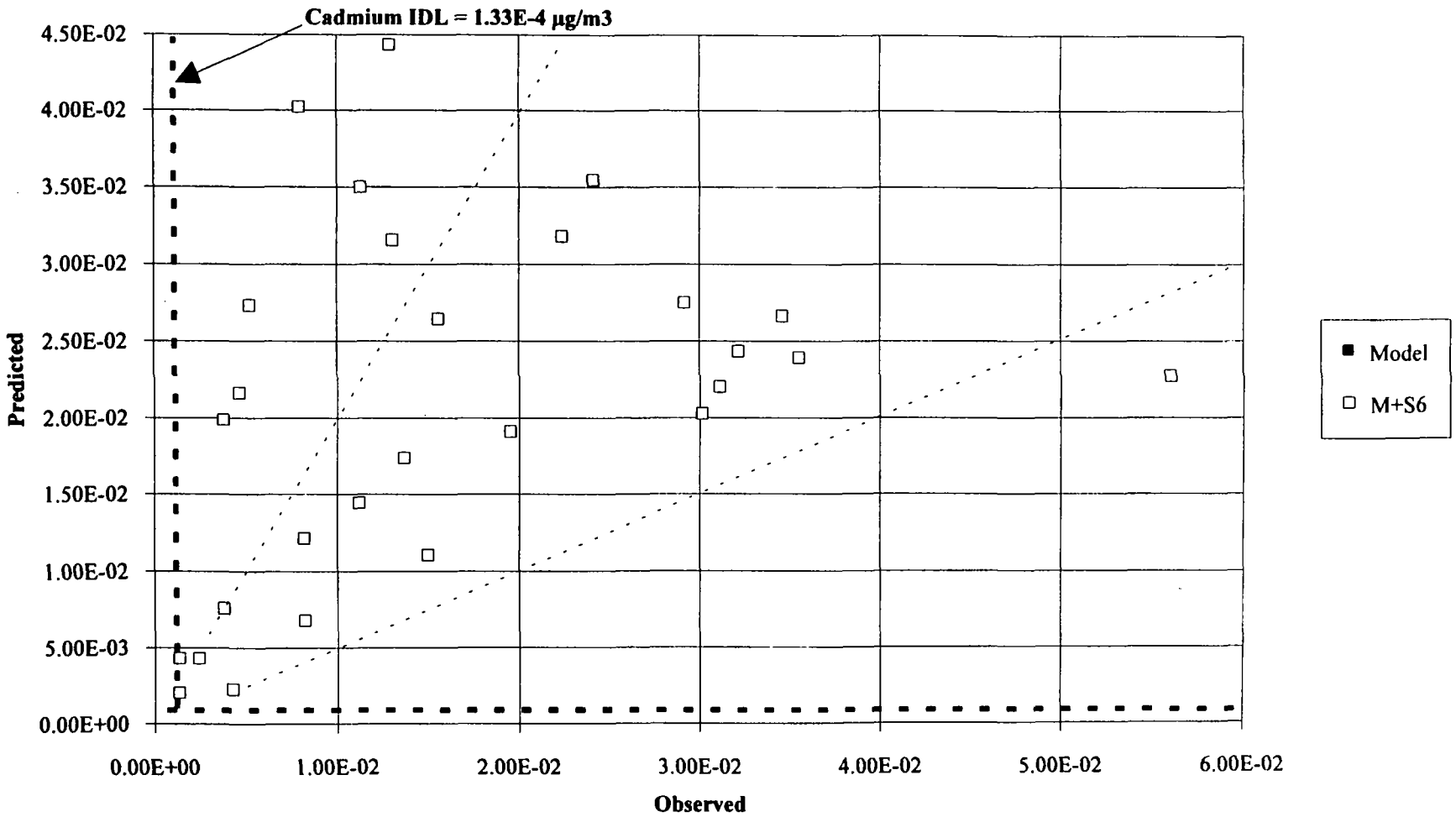


Figure AI-2-115
24-hour Cadmium for Site 3 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

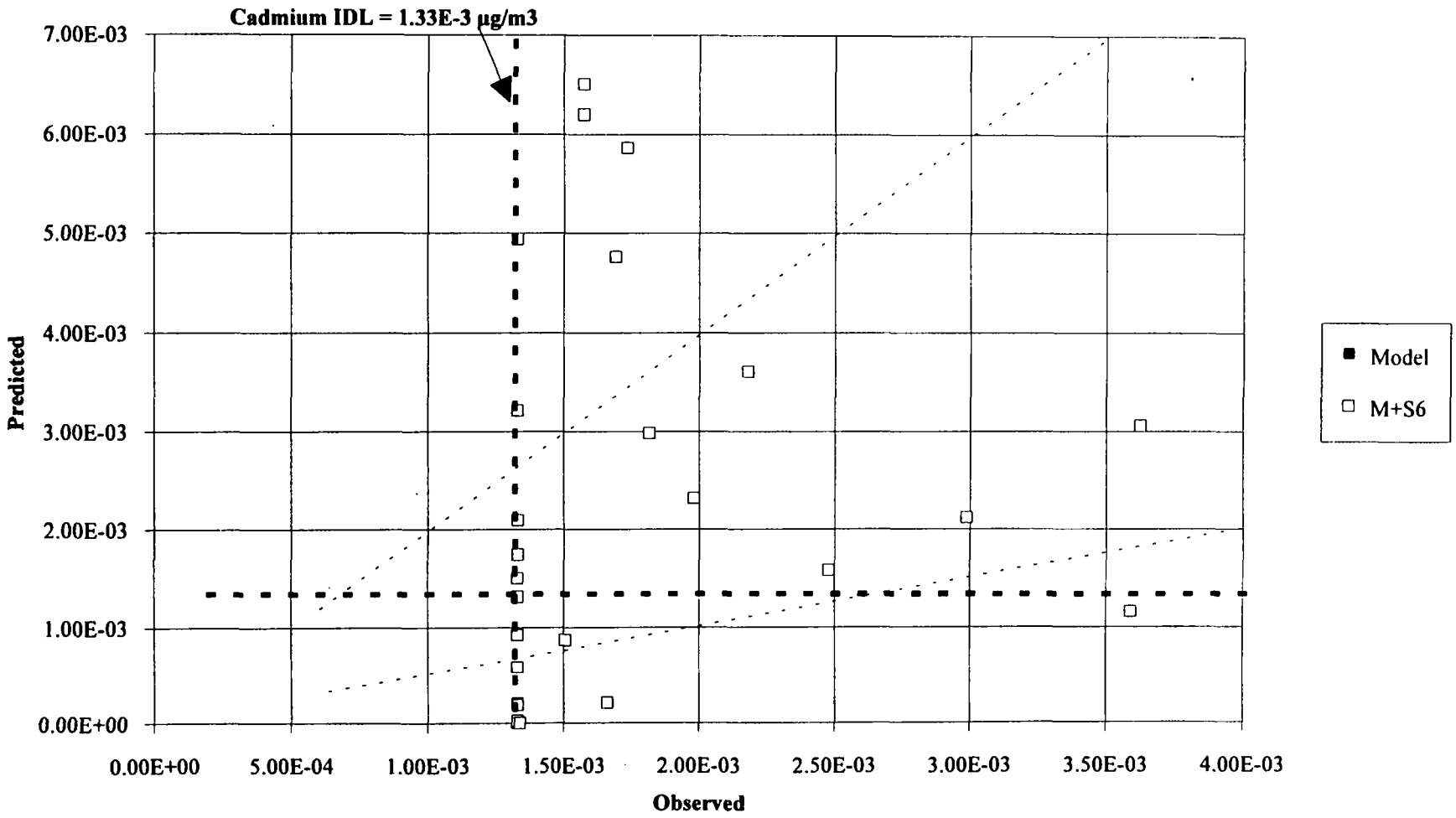


Figure AI-2-116
24-hour Cadmium for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

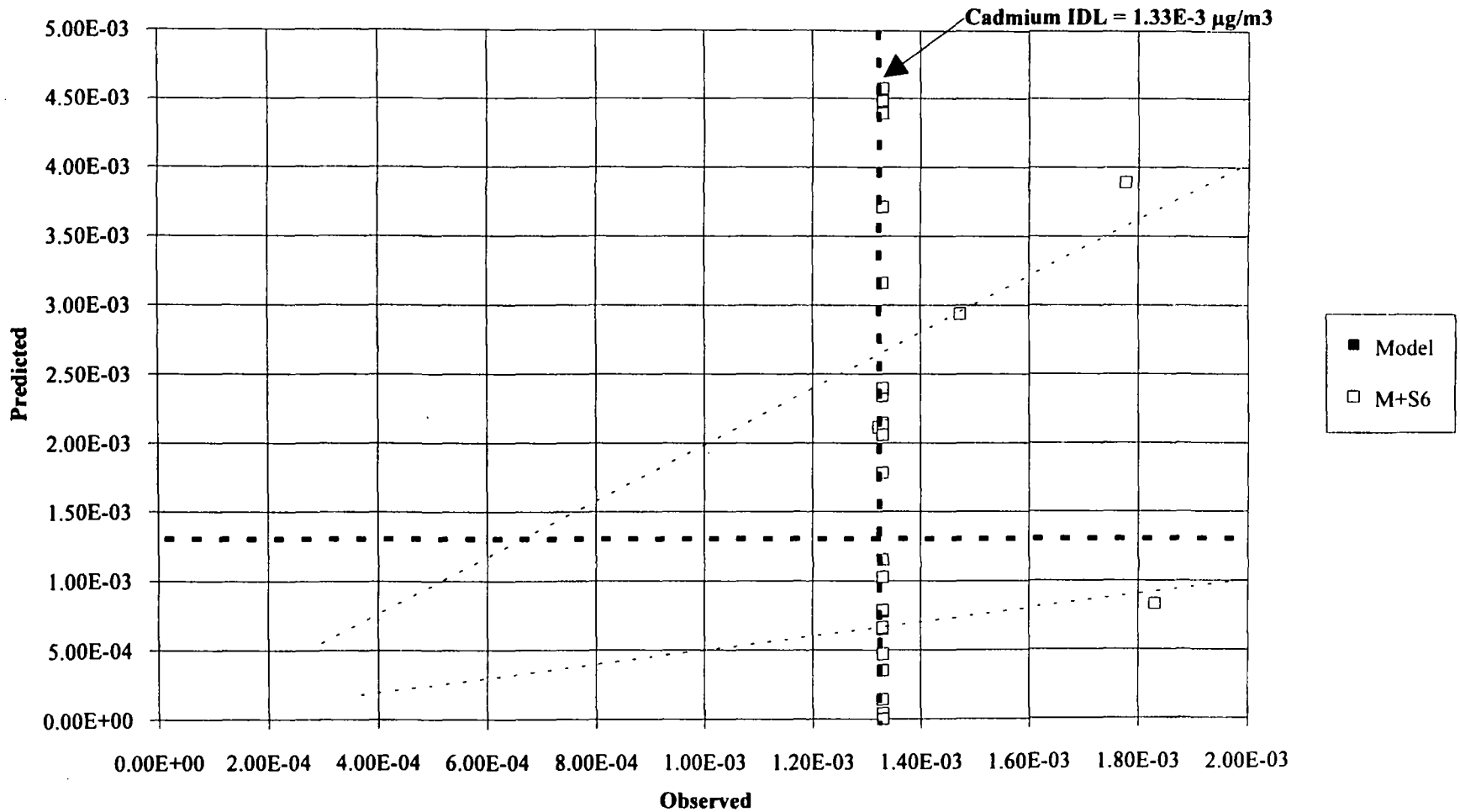


Figure AI-2-117
24-hour Cadmium for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

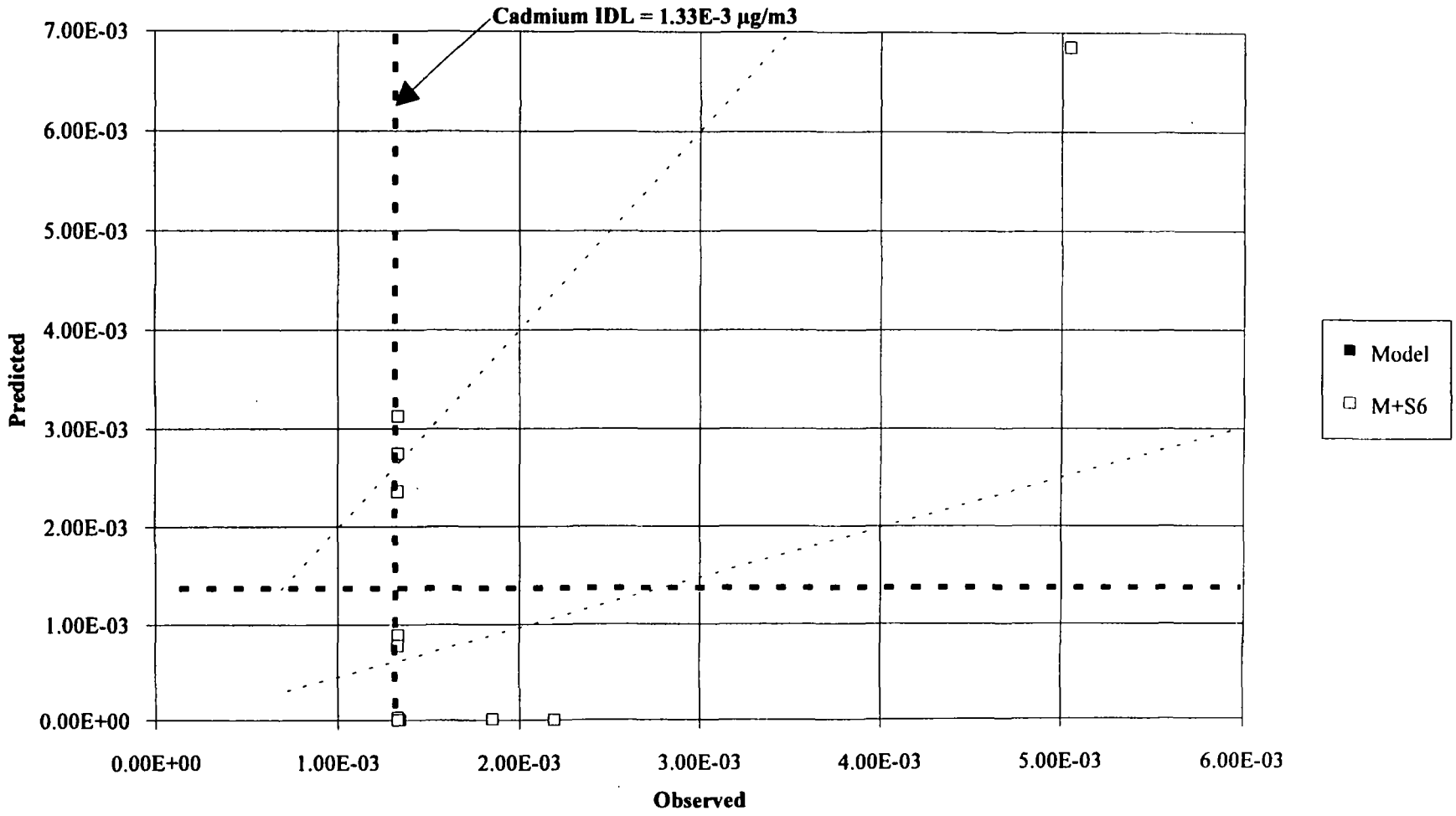


Figure AI-2-118
24-hour Cadmium for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

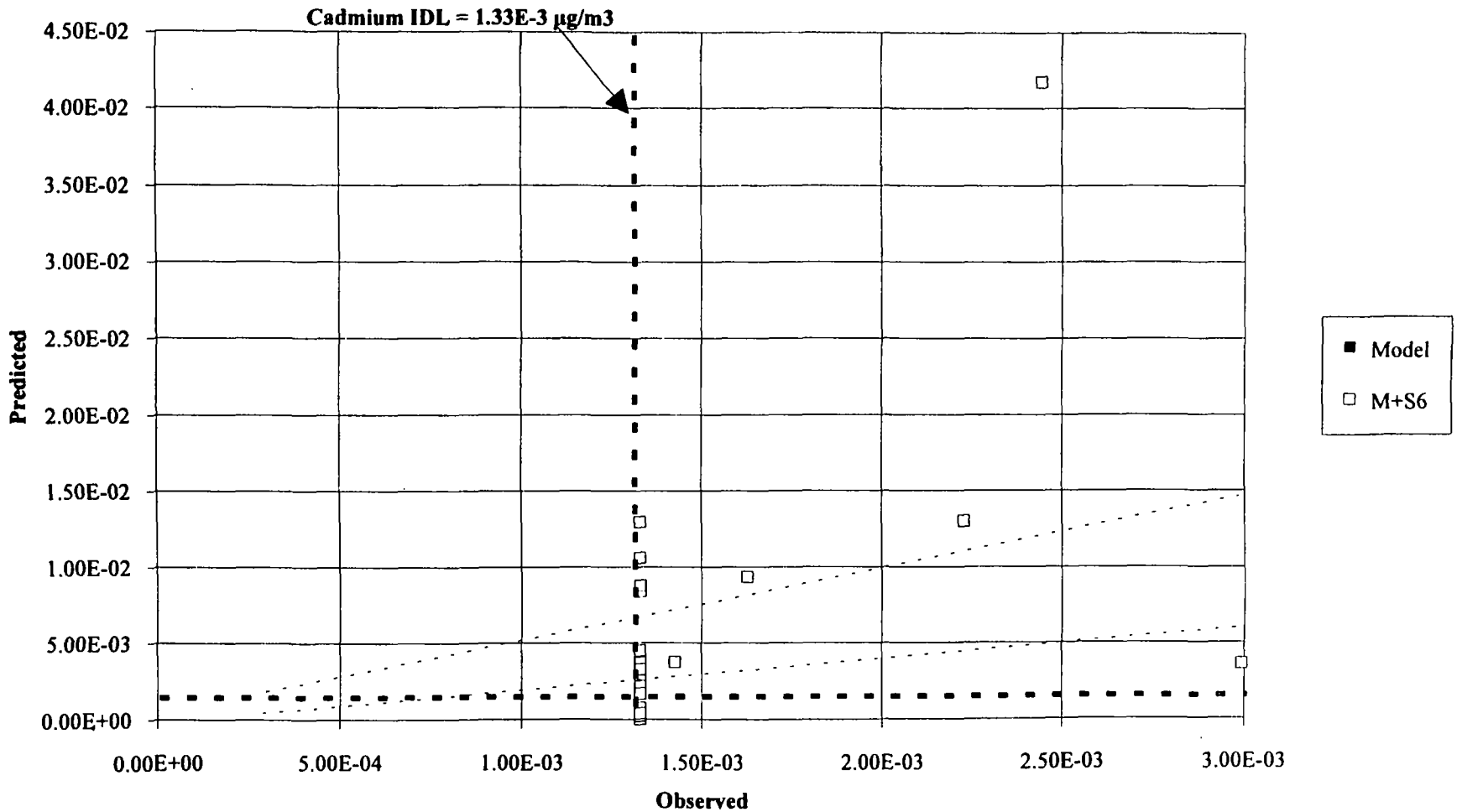


Figure AI-2-119
24-hour Total Chromium for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

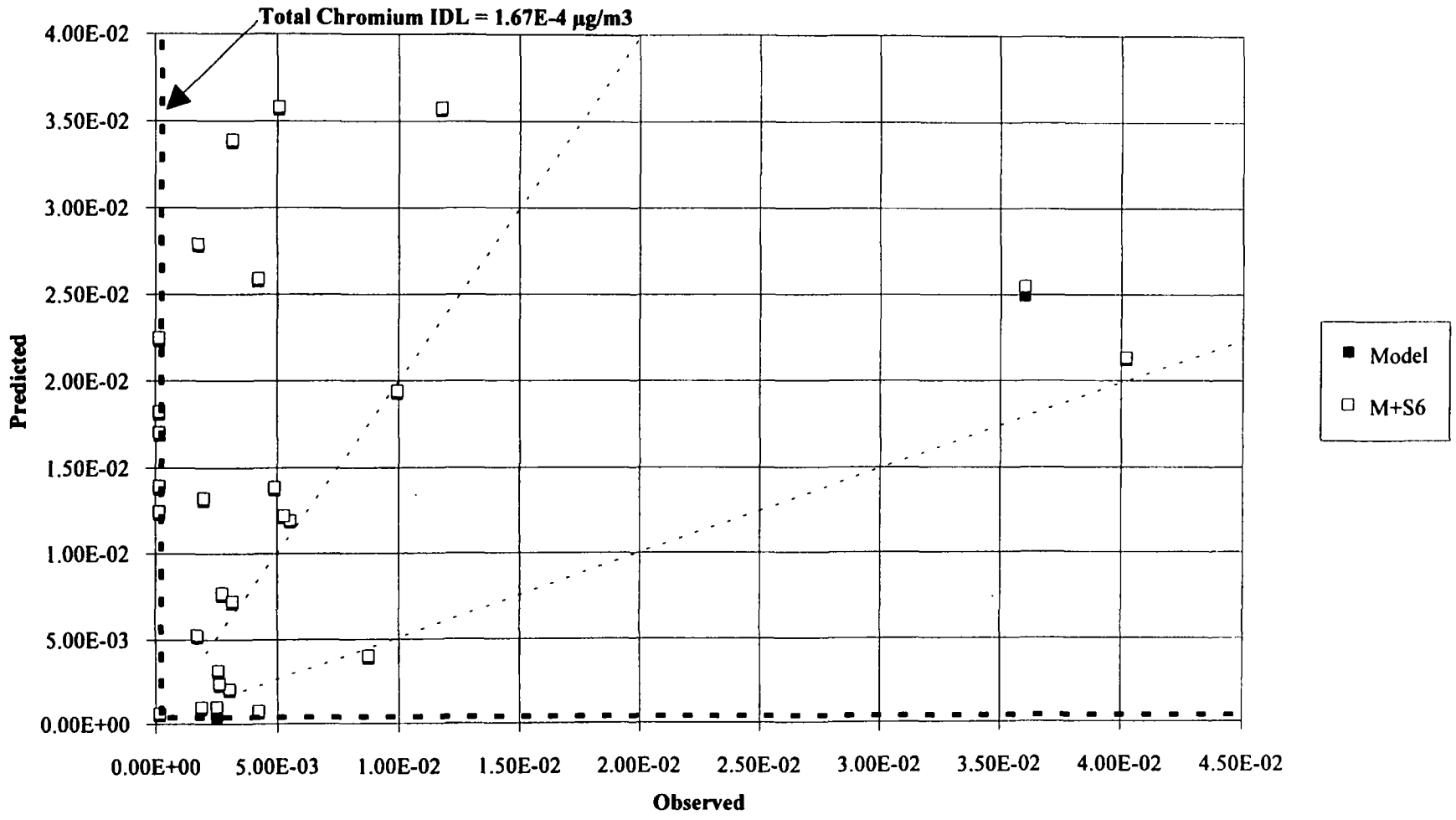


Figure AI-2-120
24-hour Total Chromium for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

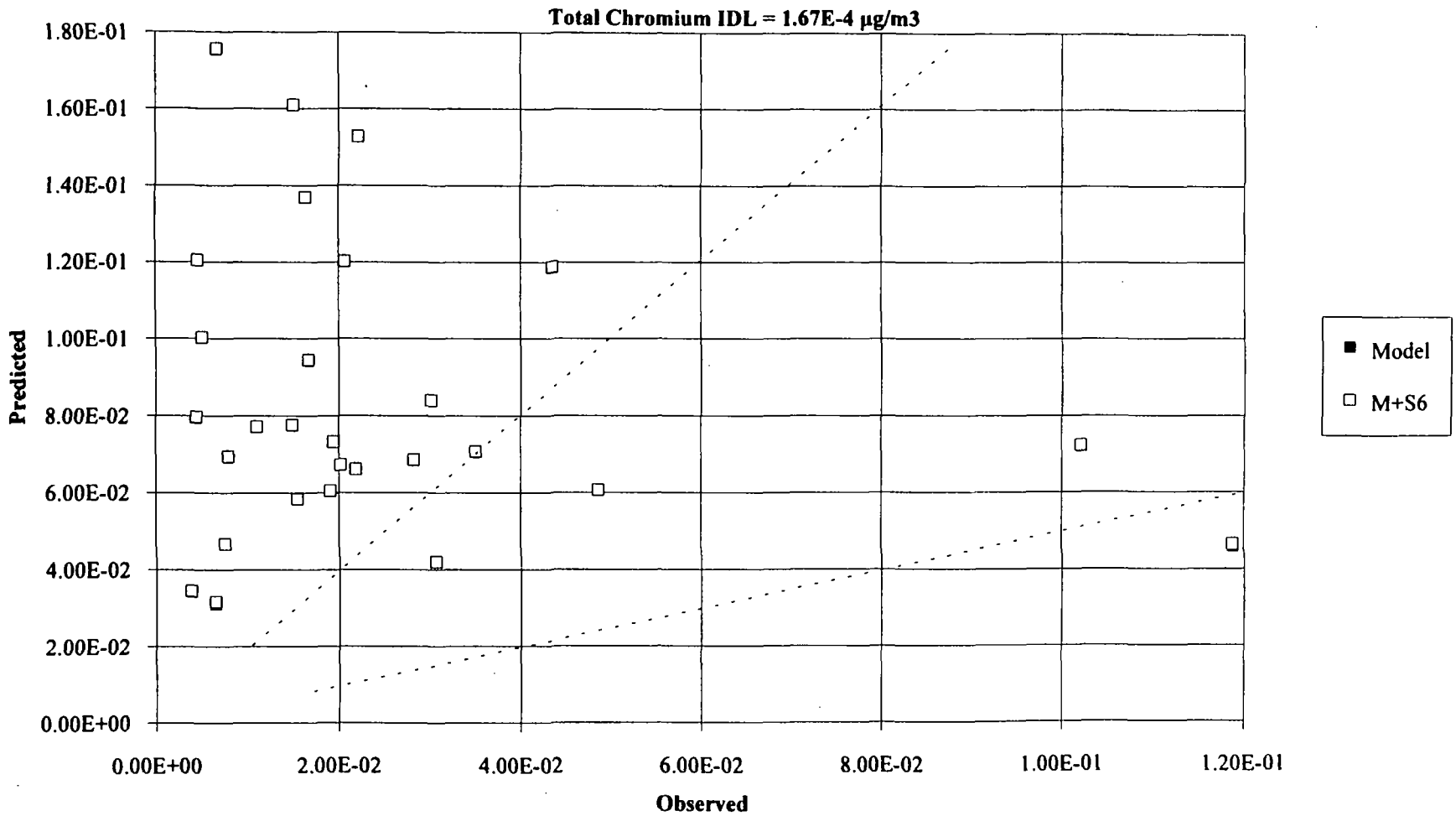


Figure AI-2-121
24-hour Total Chromium for Site 3 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

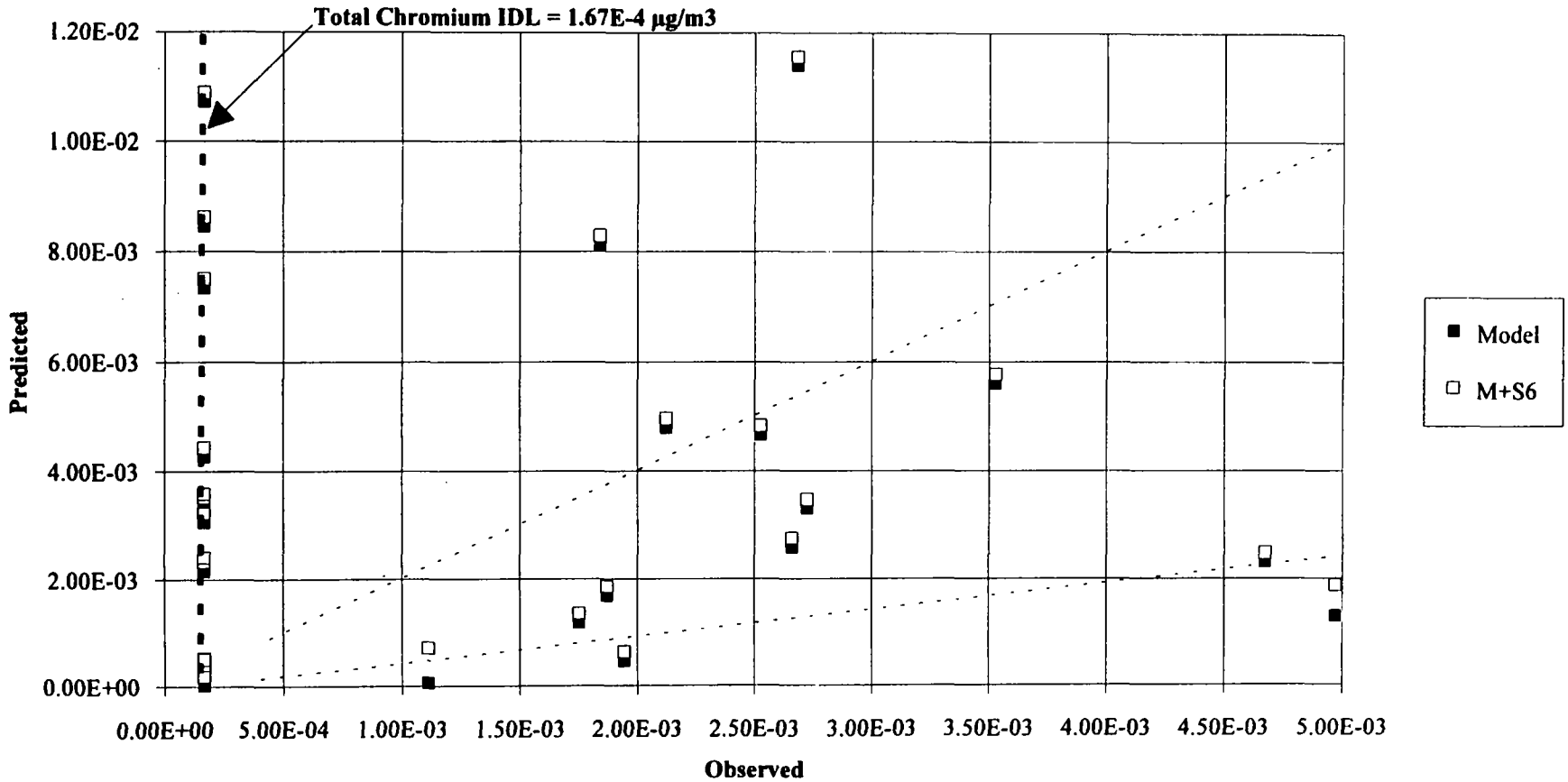


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Figure AI-2-122
24-hour Total Chromium for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

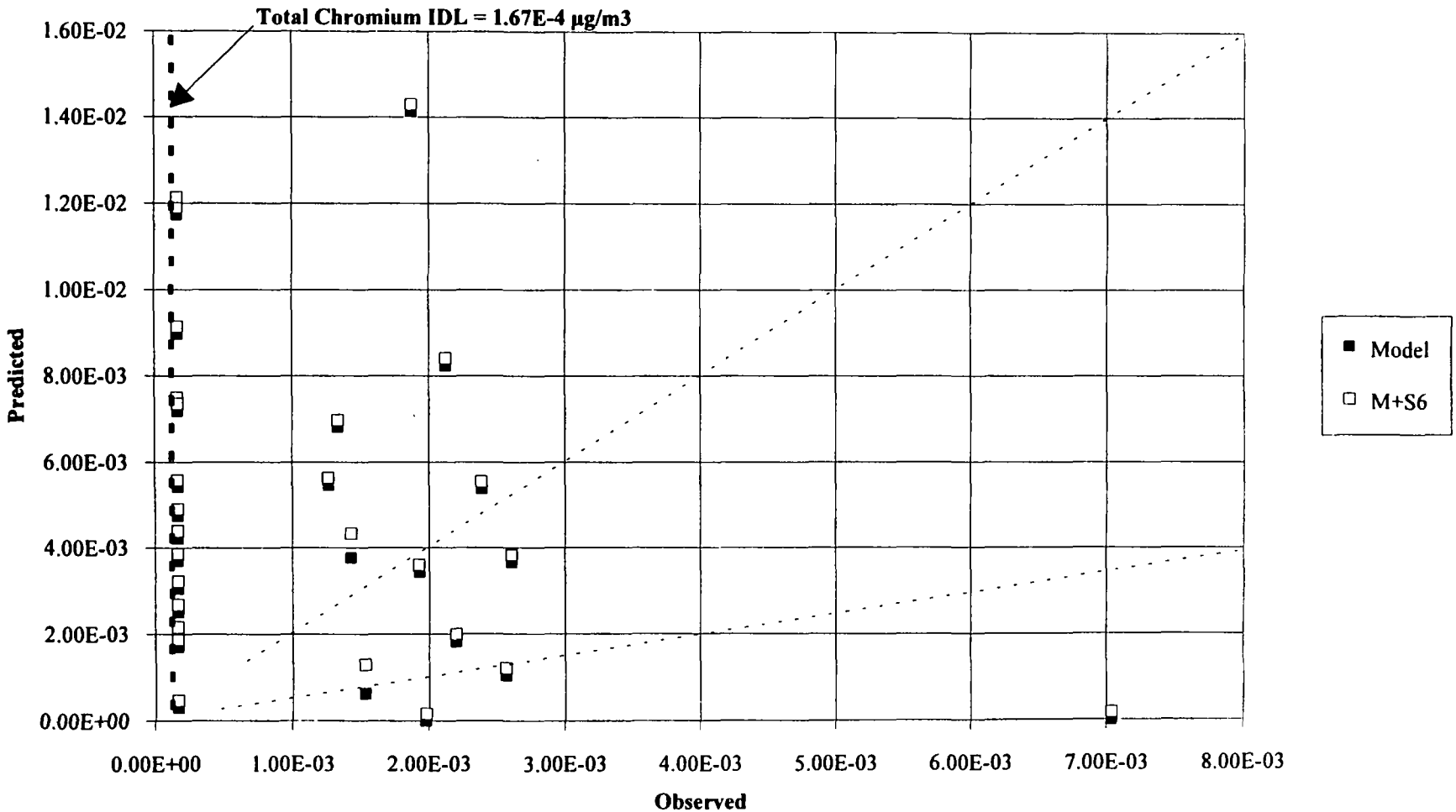


Figure AI-2-123
24-hour Total Chromium for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

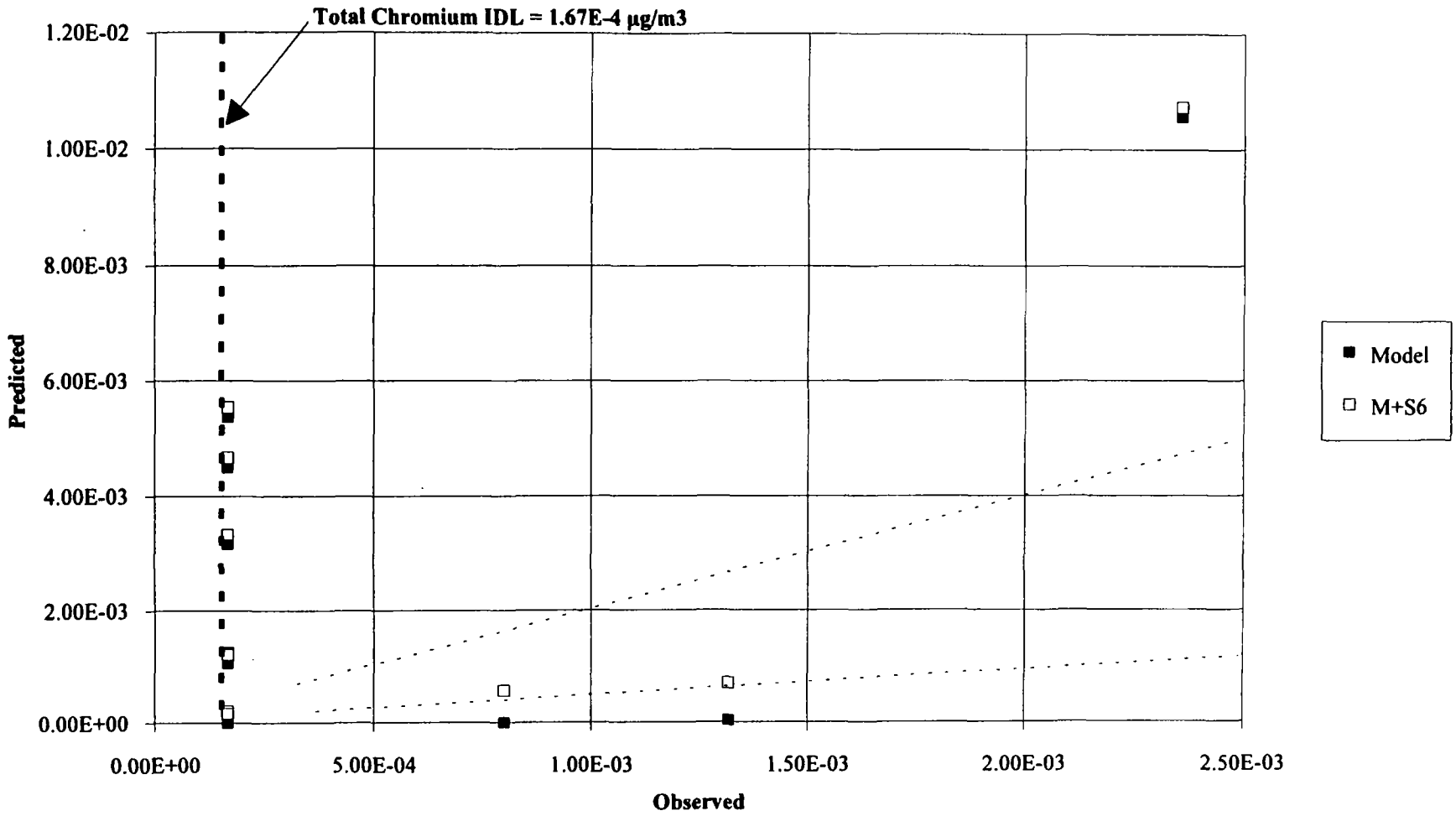


Figure AI-2-124
24-hour Total Chromium for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

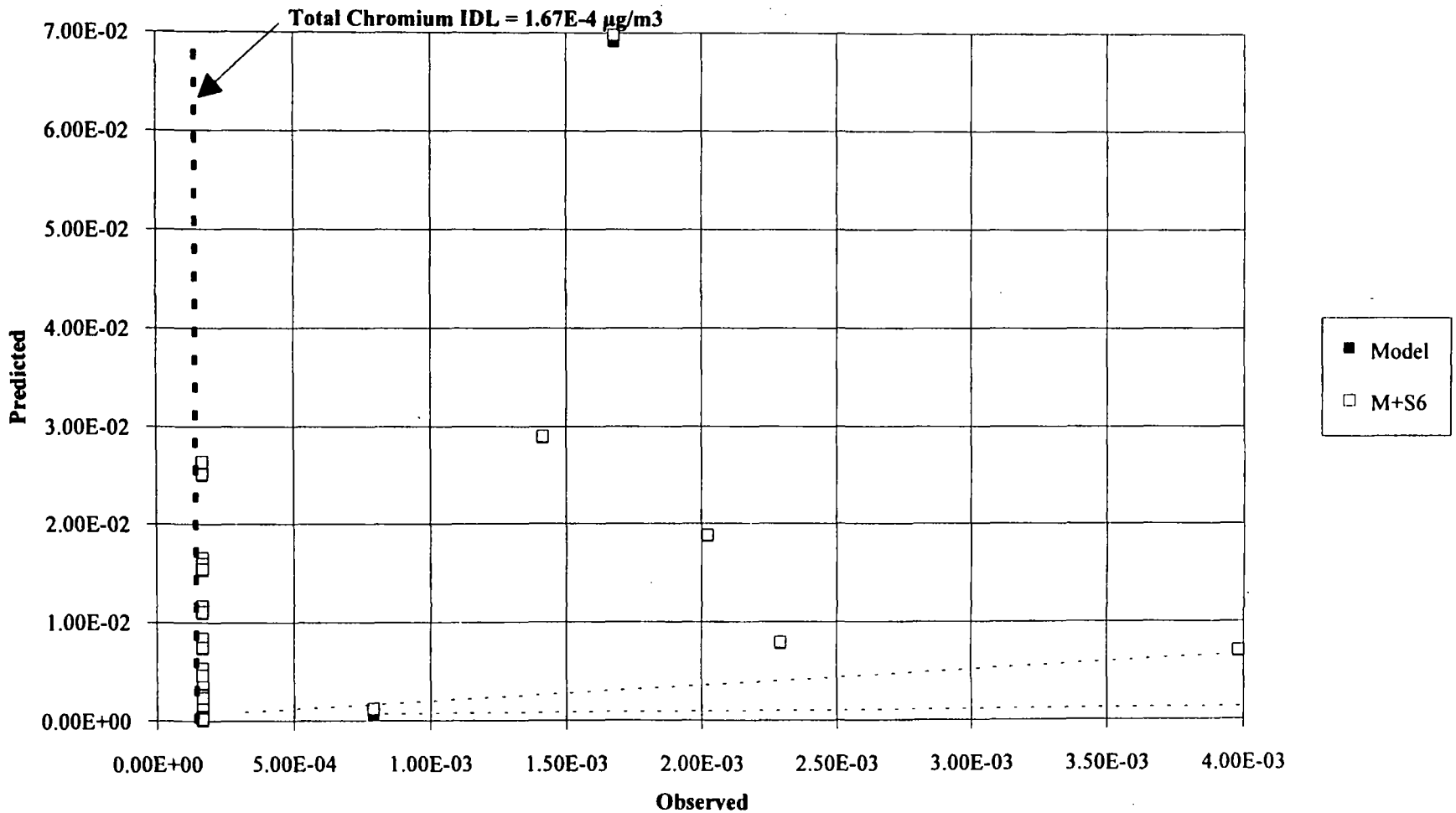


Figure AI-2-125
24-hour Total Fluorides for Site 1 Oct. 1, 1993 to March 29, 1994 (Paired Data, Upwind/Downwind Data)

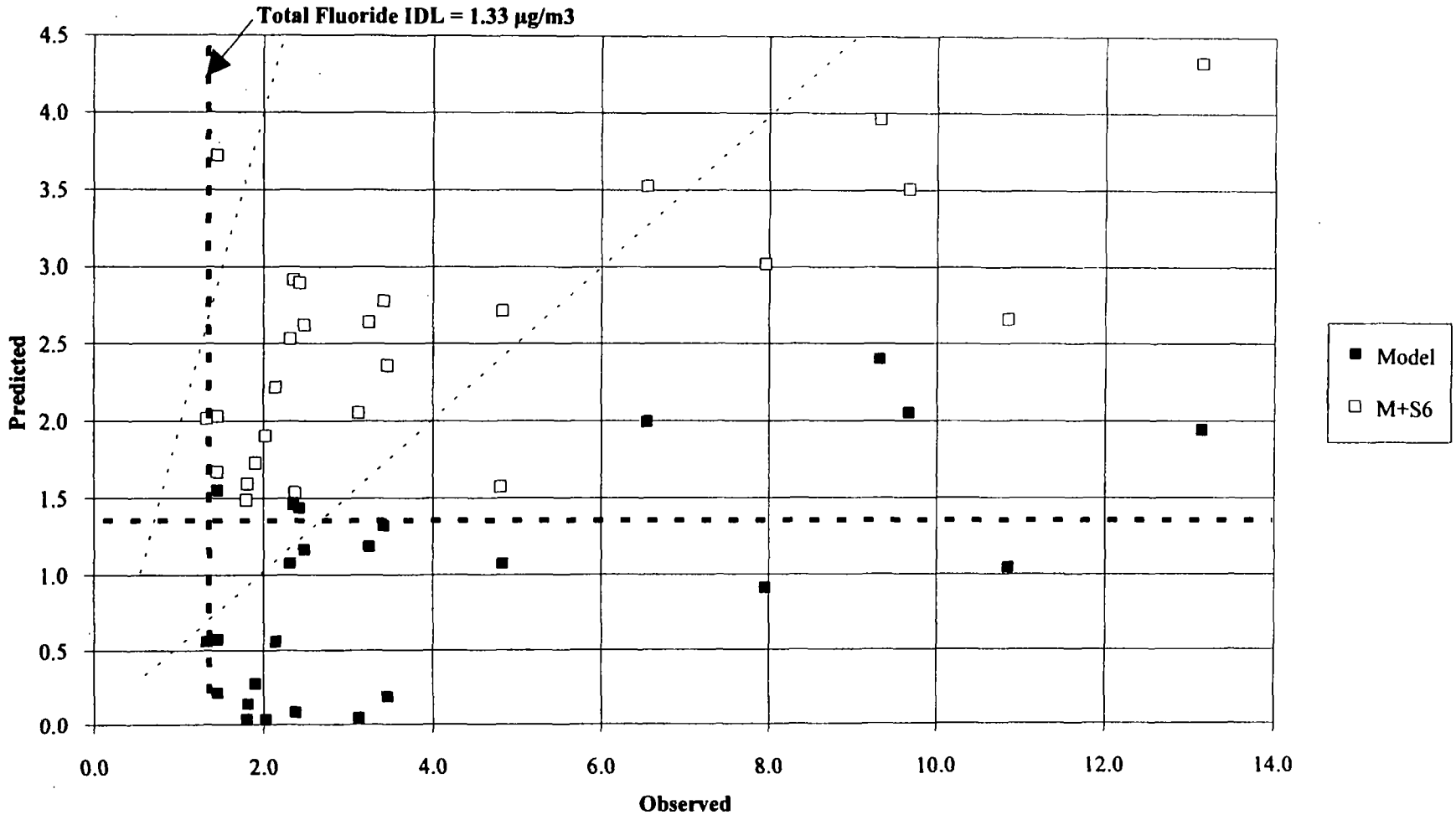


Figure AI-2-126
24-hour Total Fluorides for Site 2 Oct. 1, 1993 to March 29, 1994 (Paired Data, Upwind/Downwind Data)

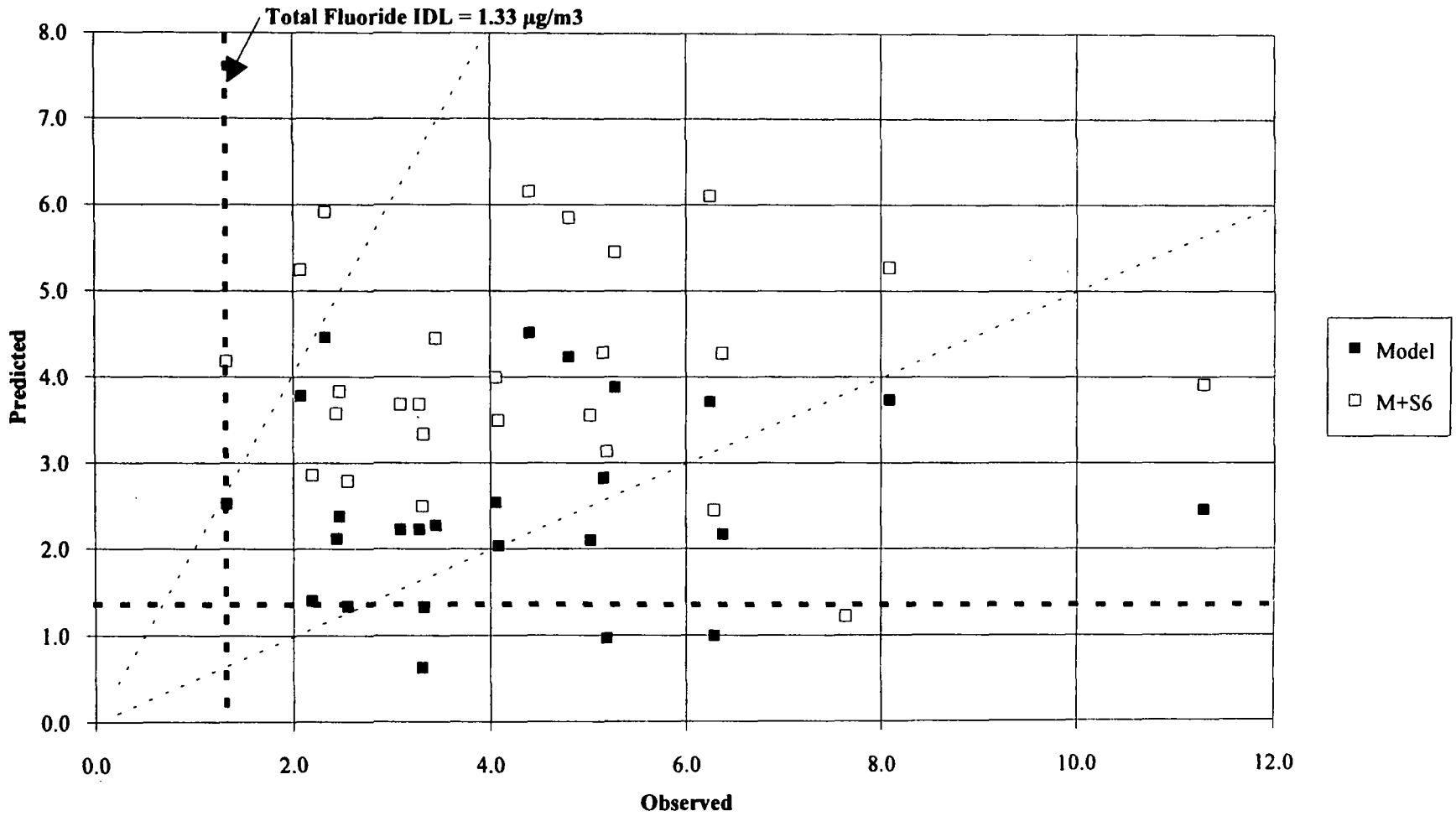


Figure AI-2-127
24-hour Total Fluorides for Site 7 Oct. 1, 1993 to March 29, 1994 (Paired Data, Upwind/Downwind Data)

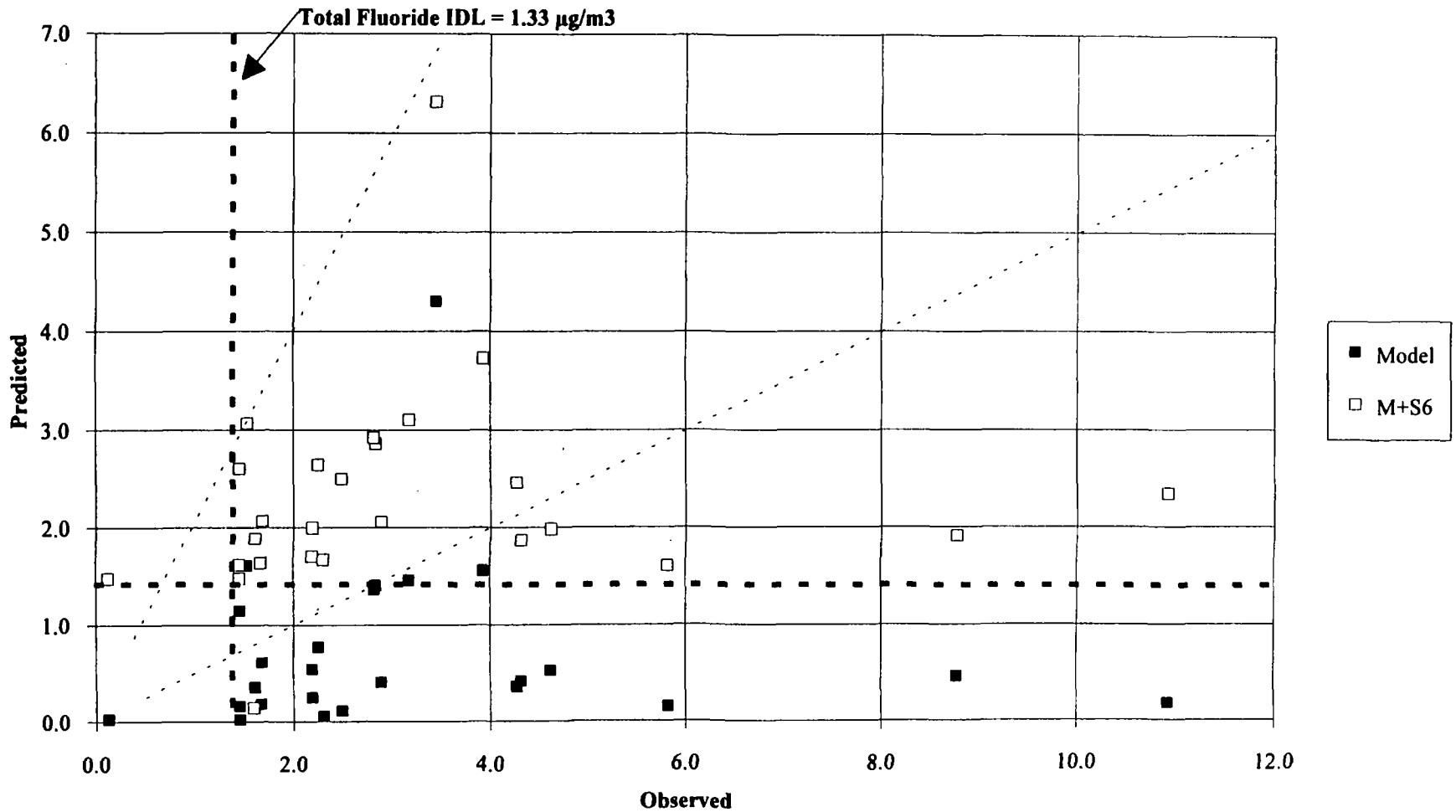


Figure AI-2-128
24-hour Nickel for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

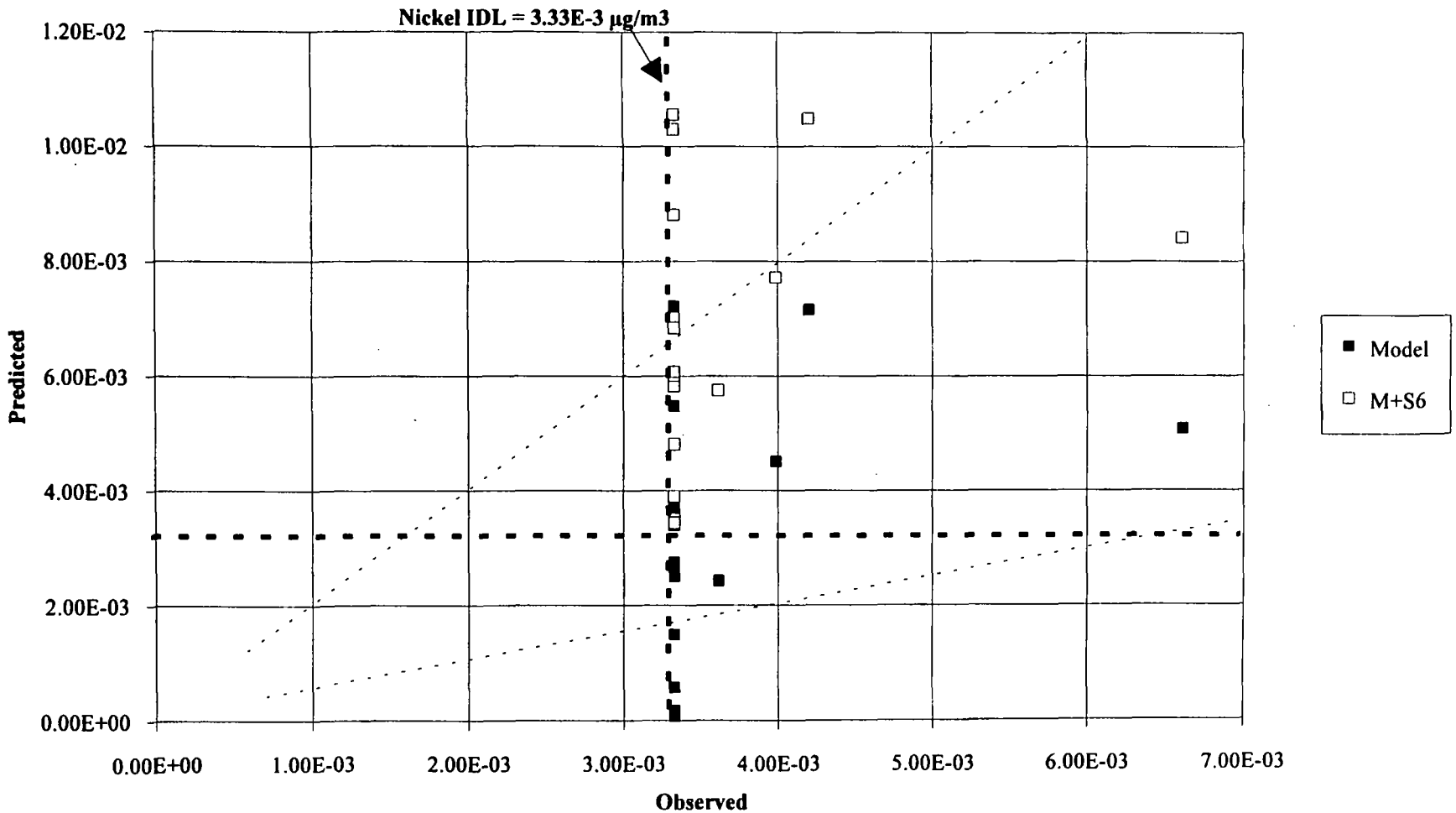


Figure AI-2-129
24-hour Nickel for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

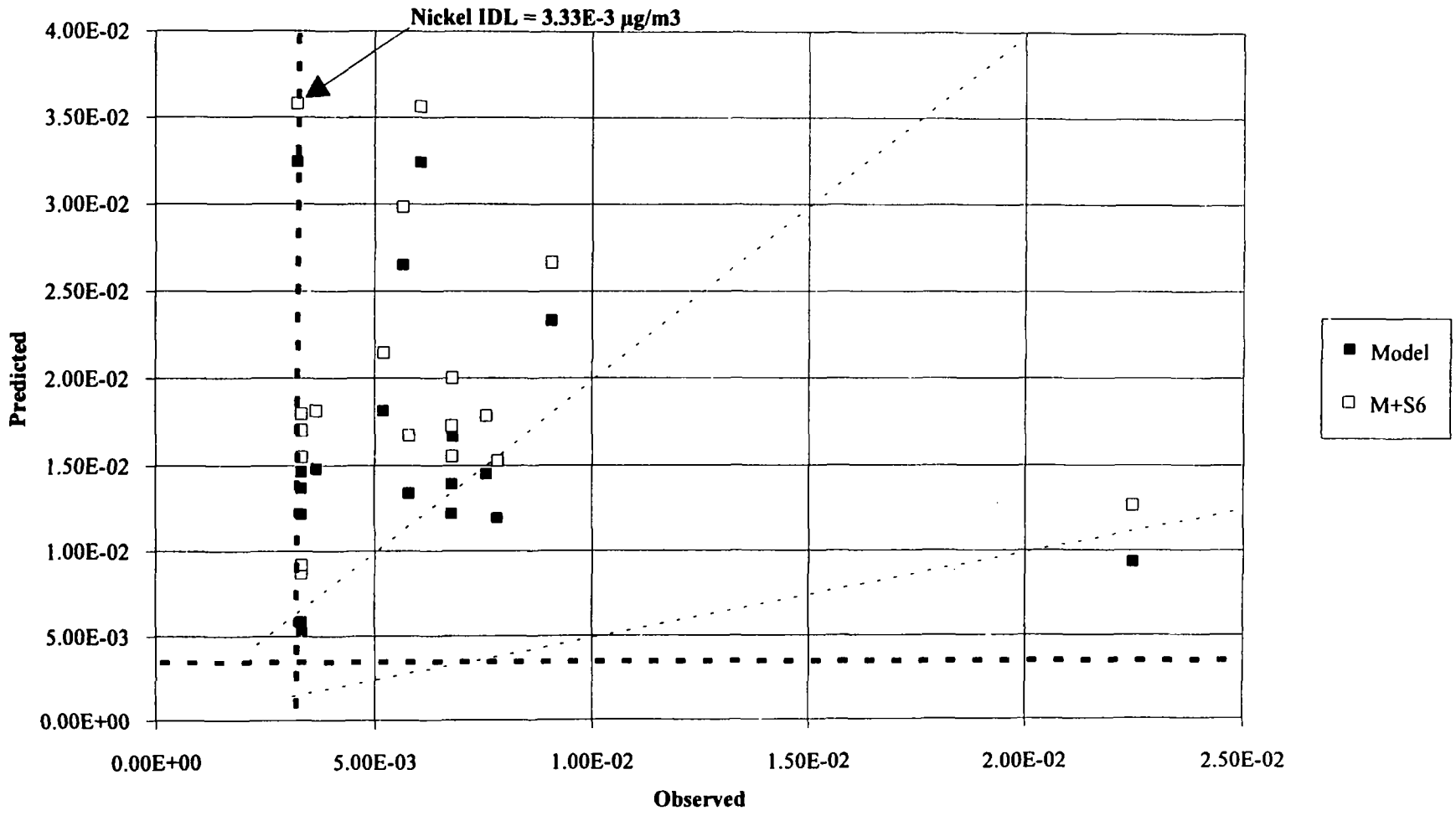


Figure AI-2-130
24-hour Nickel for Site 3 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

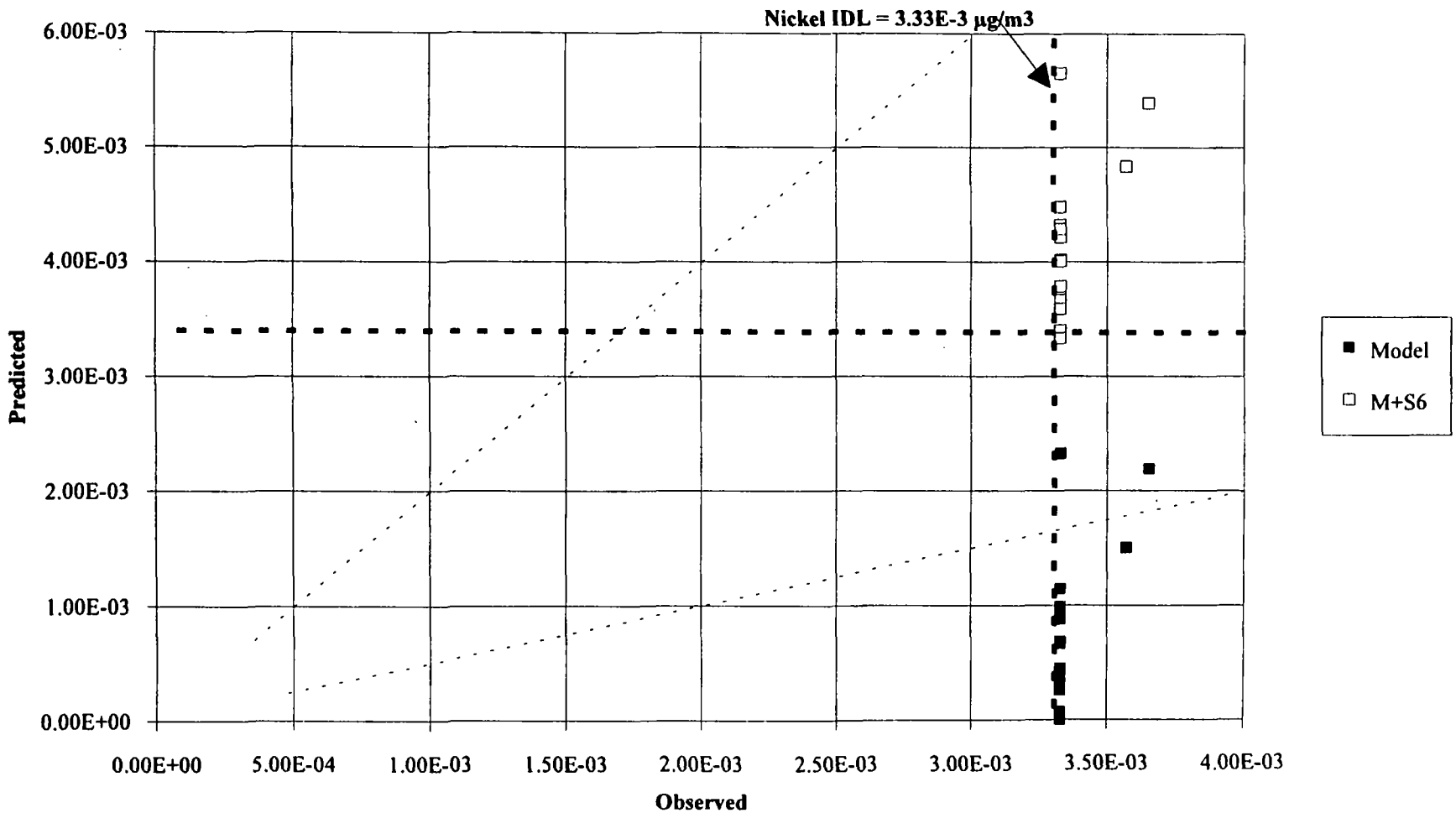


Figure AI-2-131
24-hour Nickel for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

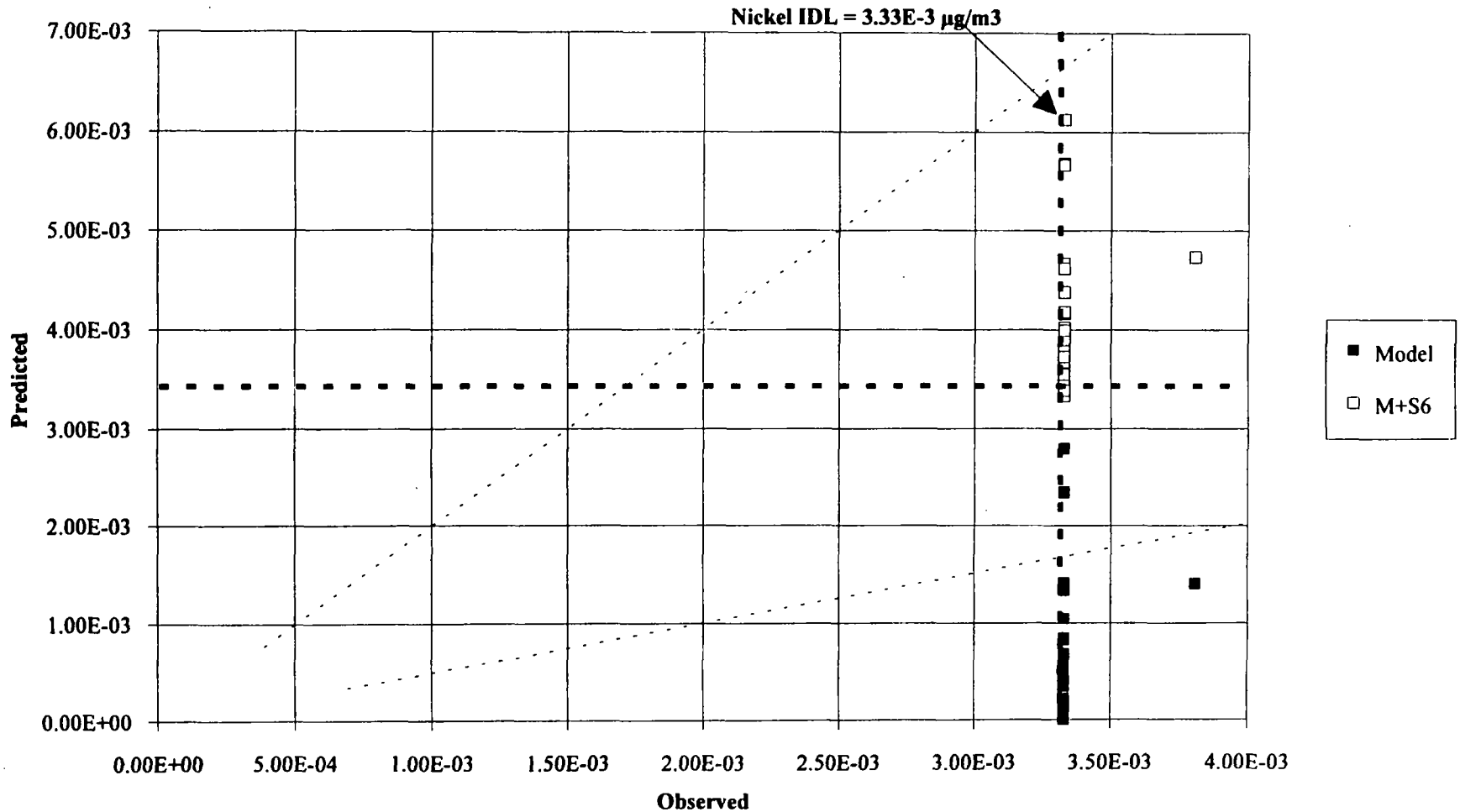


Figure AI-2-132
24-hour Nickel for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

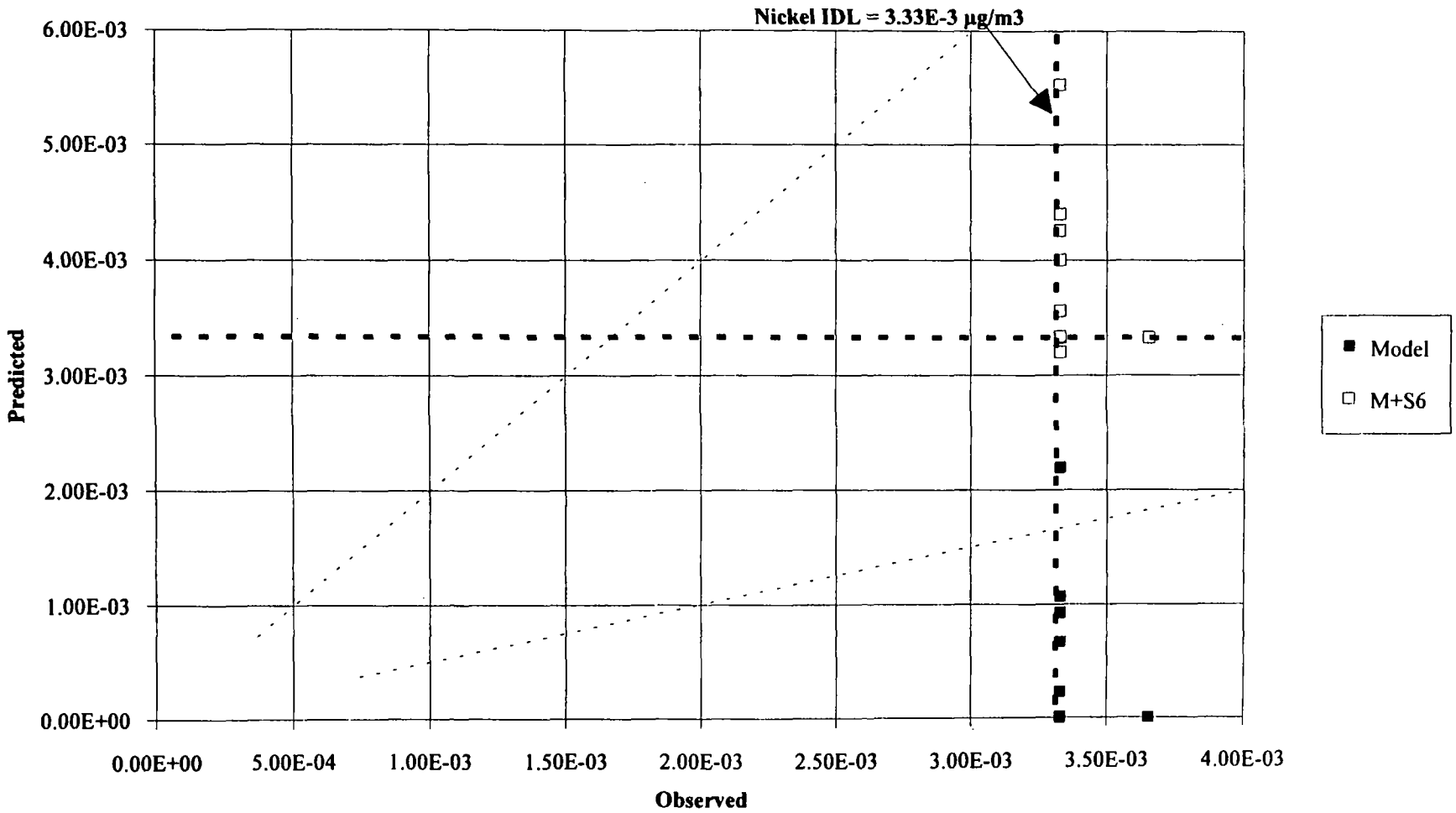


Figure AI-2-133
24-hour Nickel for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

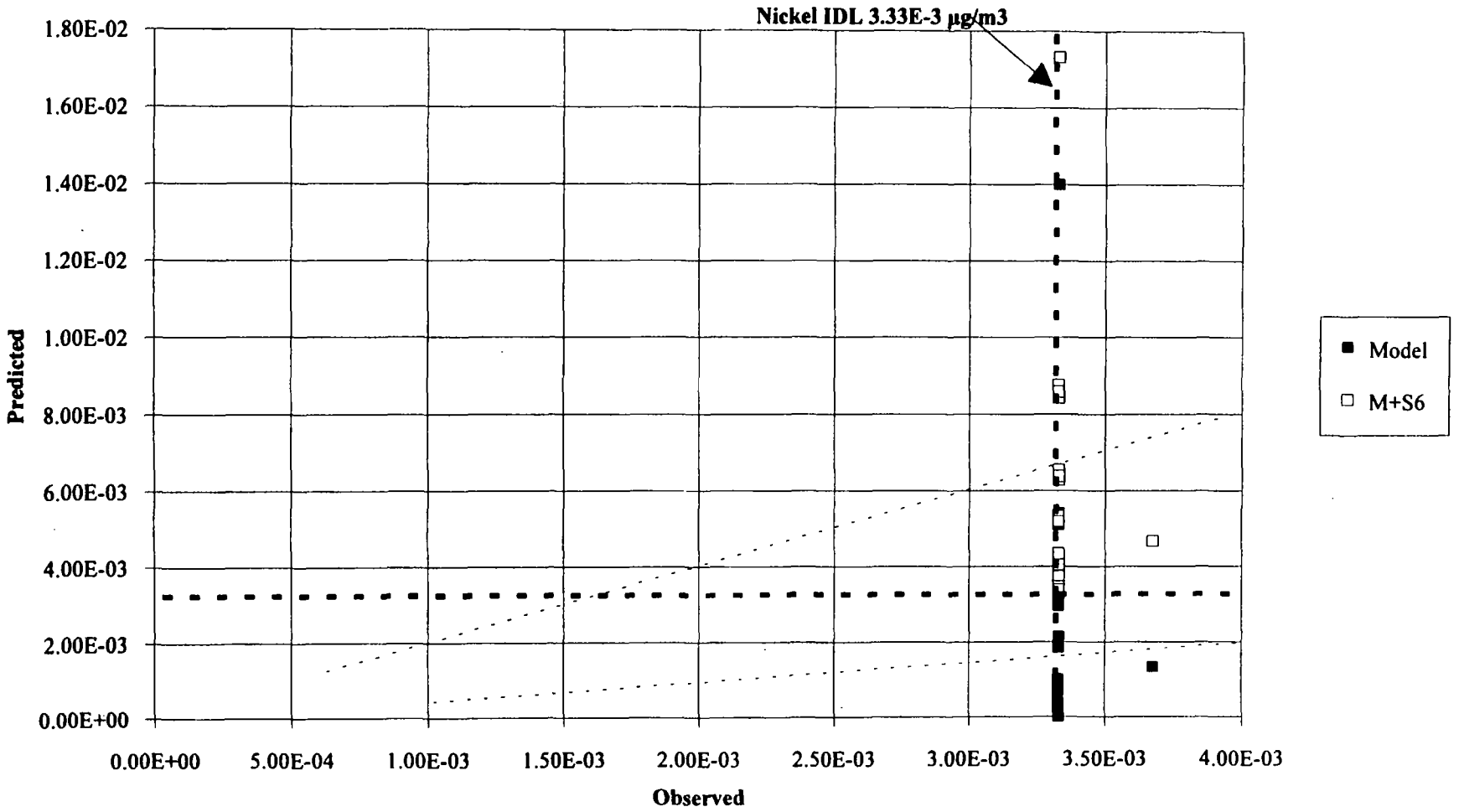


Figure AI-2-134
24-hour Total Phosphorus for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

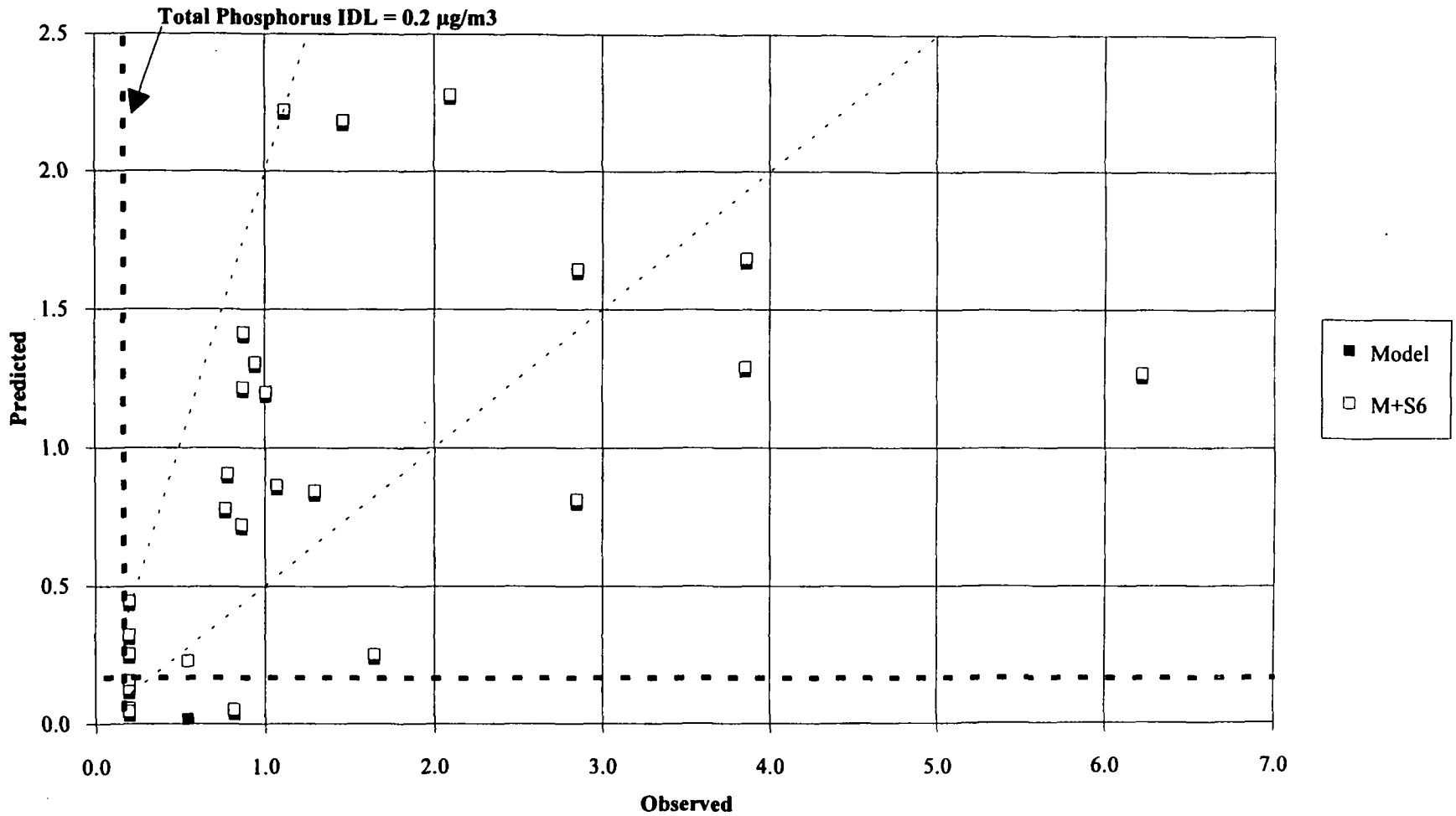


Figure AI-2-135
24-hour Total Phosphorus for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

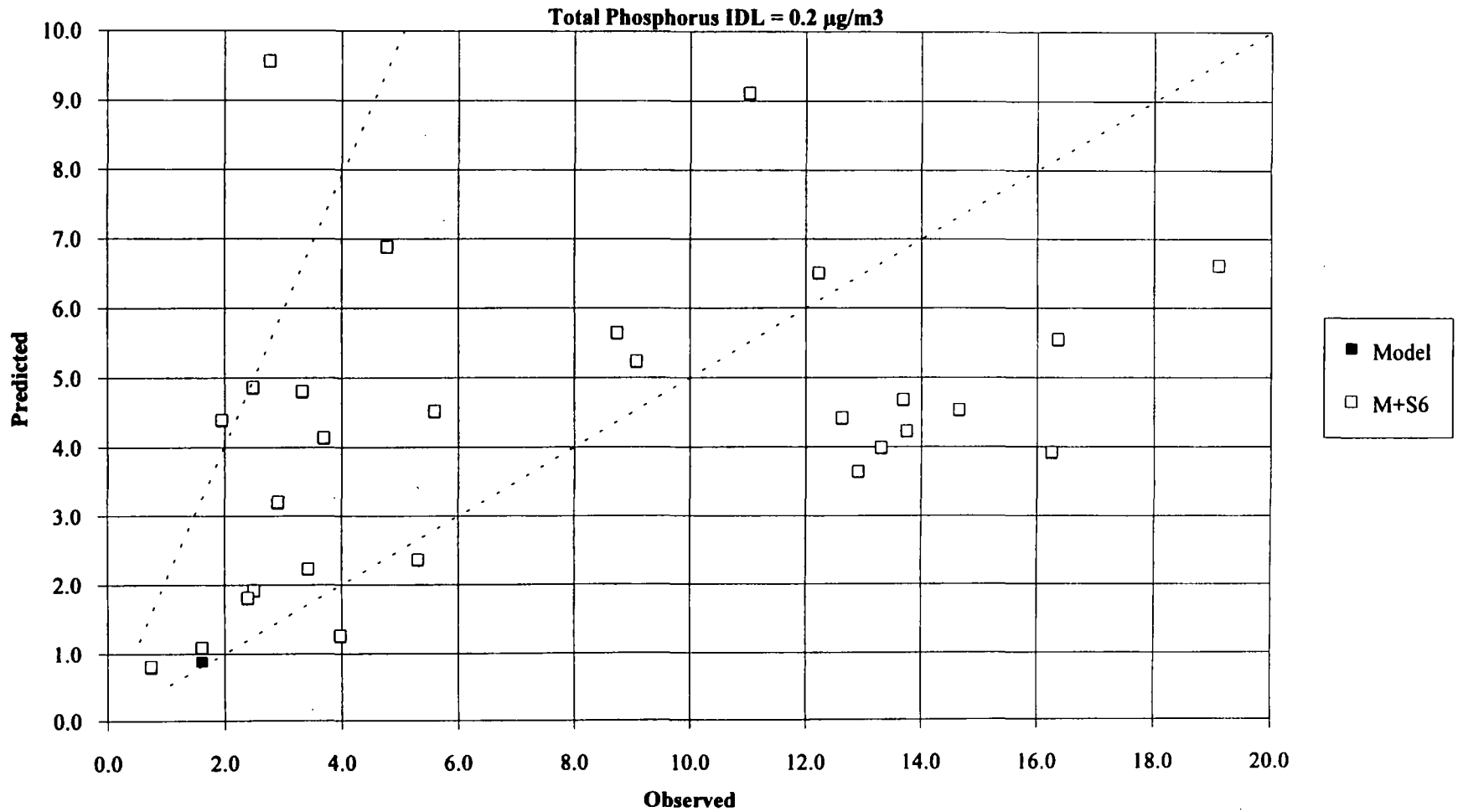


Figure AI-2-136
24-hour Total Phosphorus for Site 3 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

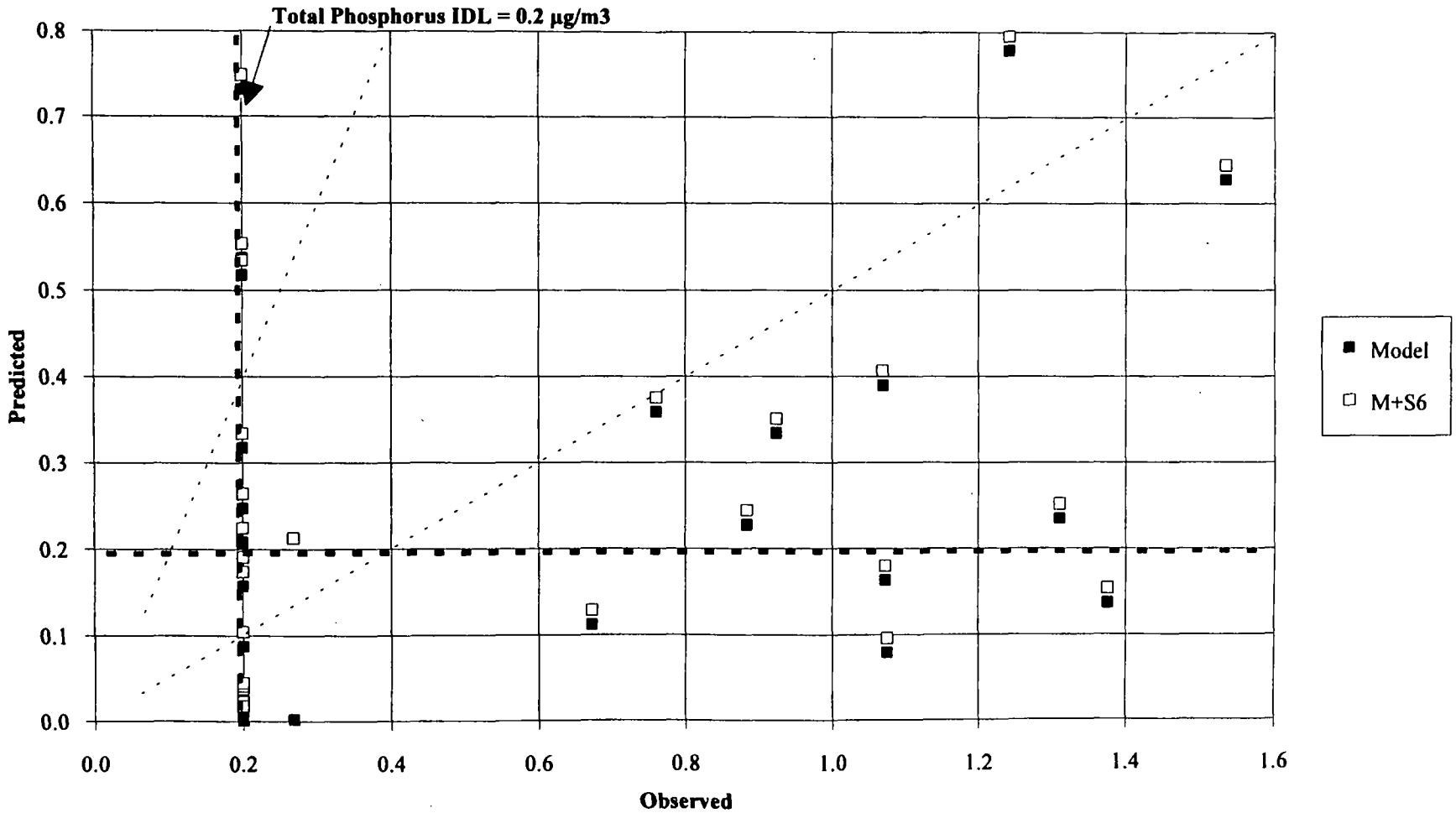


Figure AI-2-137
24-hour Total Phosphorus for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

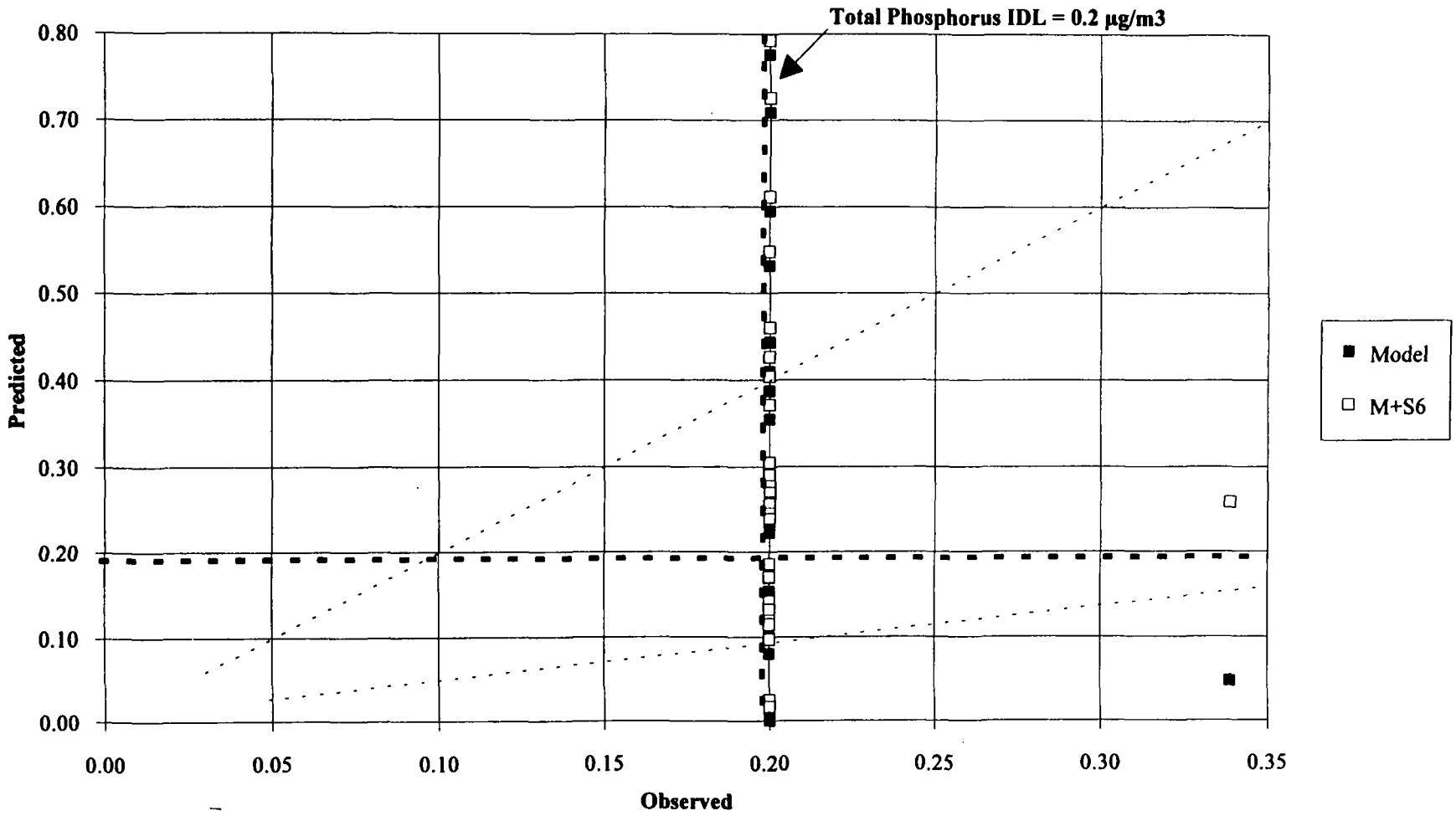


Figure AI-2-138
24-hour Total Phosphorus for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

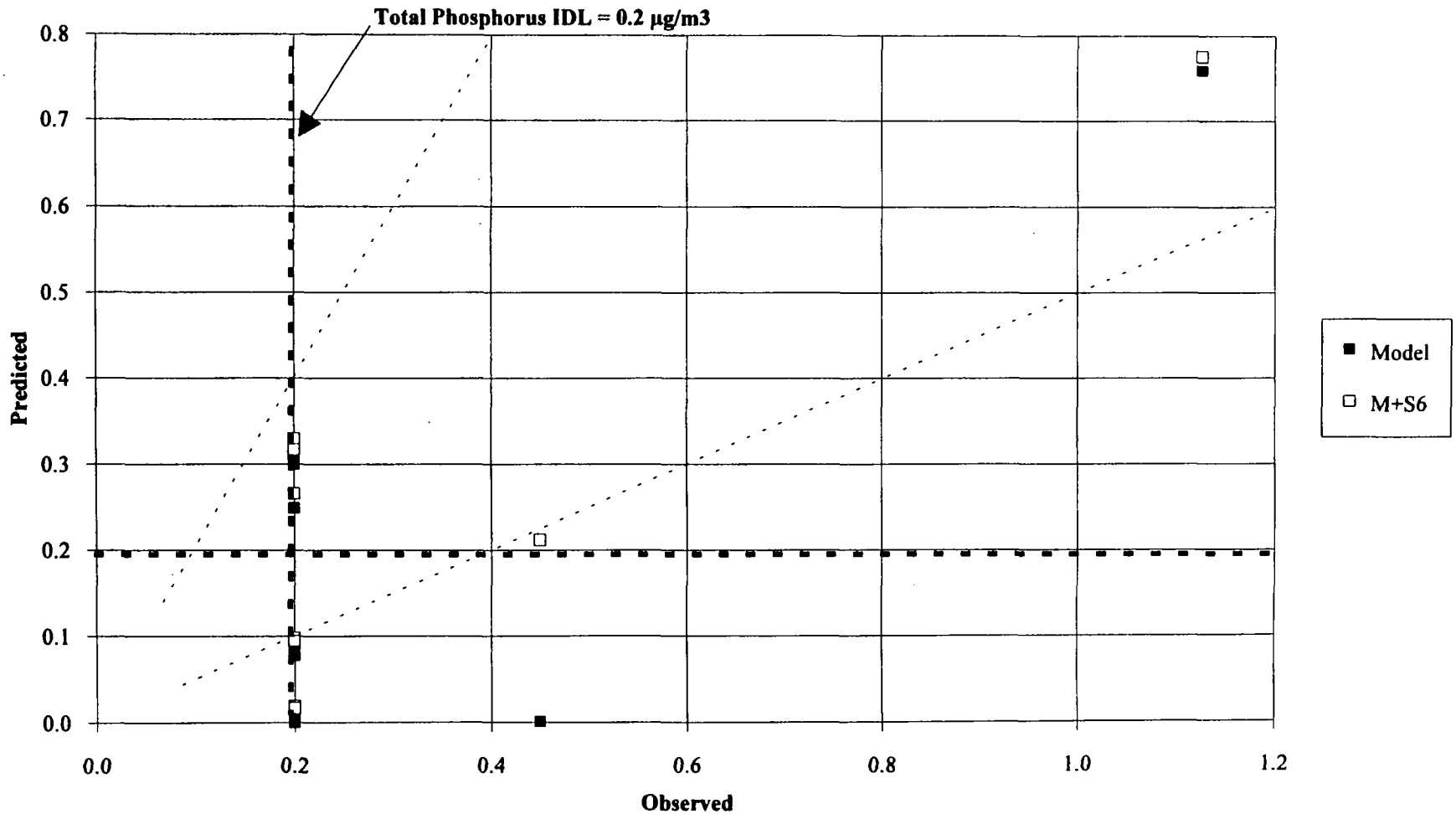


Figure AI-2-139
24-hour Total Phosphorus for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

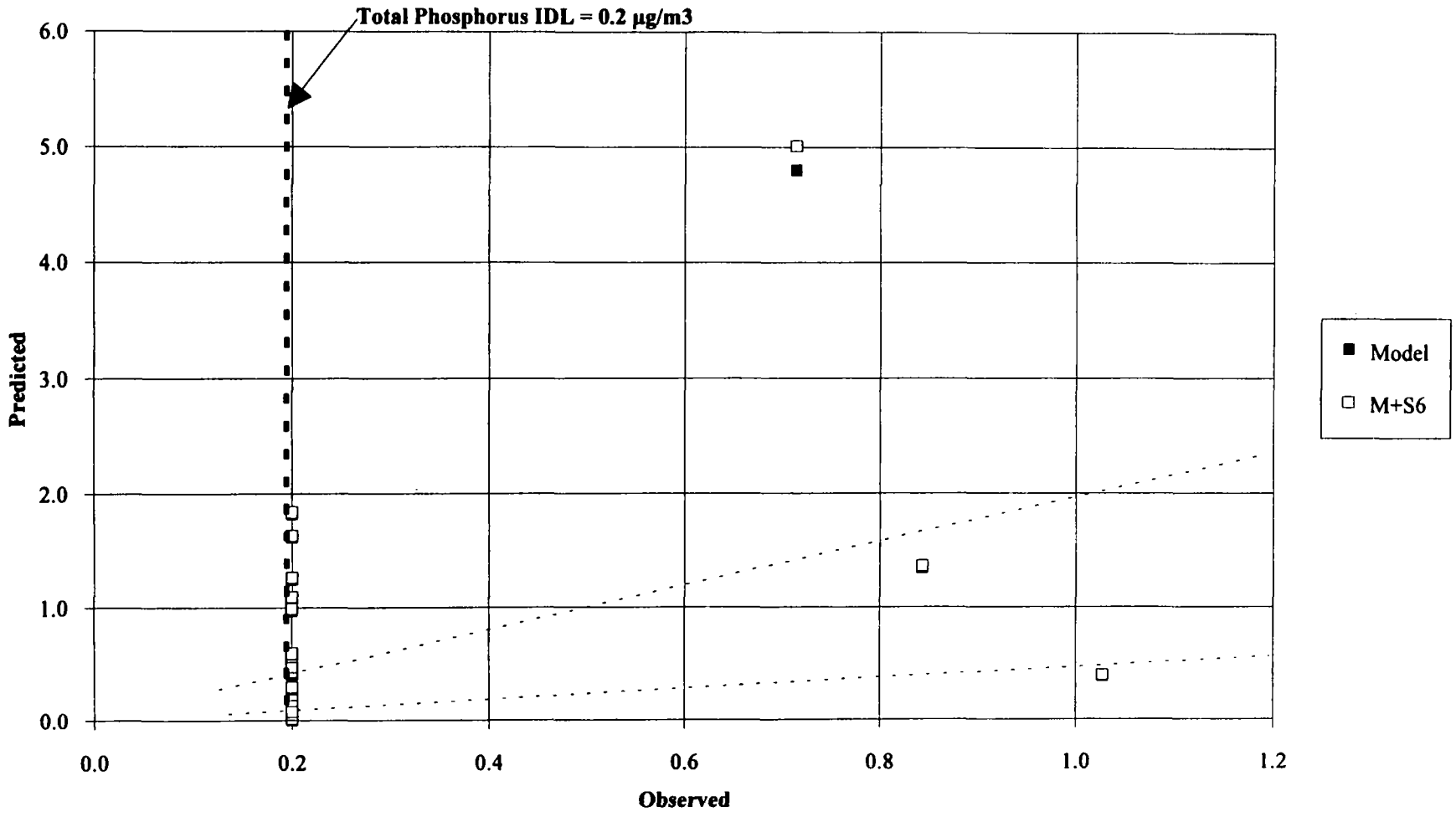


Figure AI-2-140
24-hour Lead-210 for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

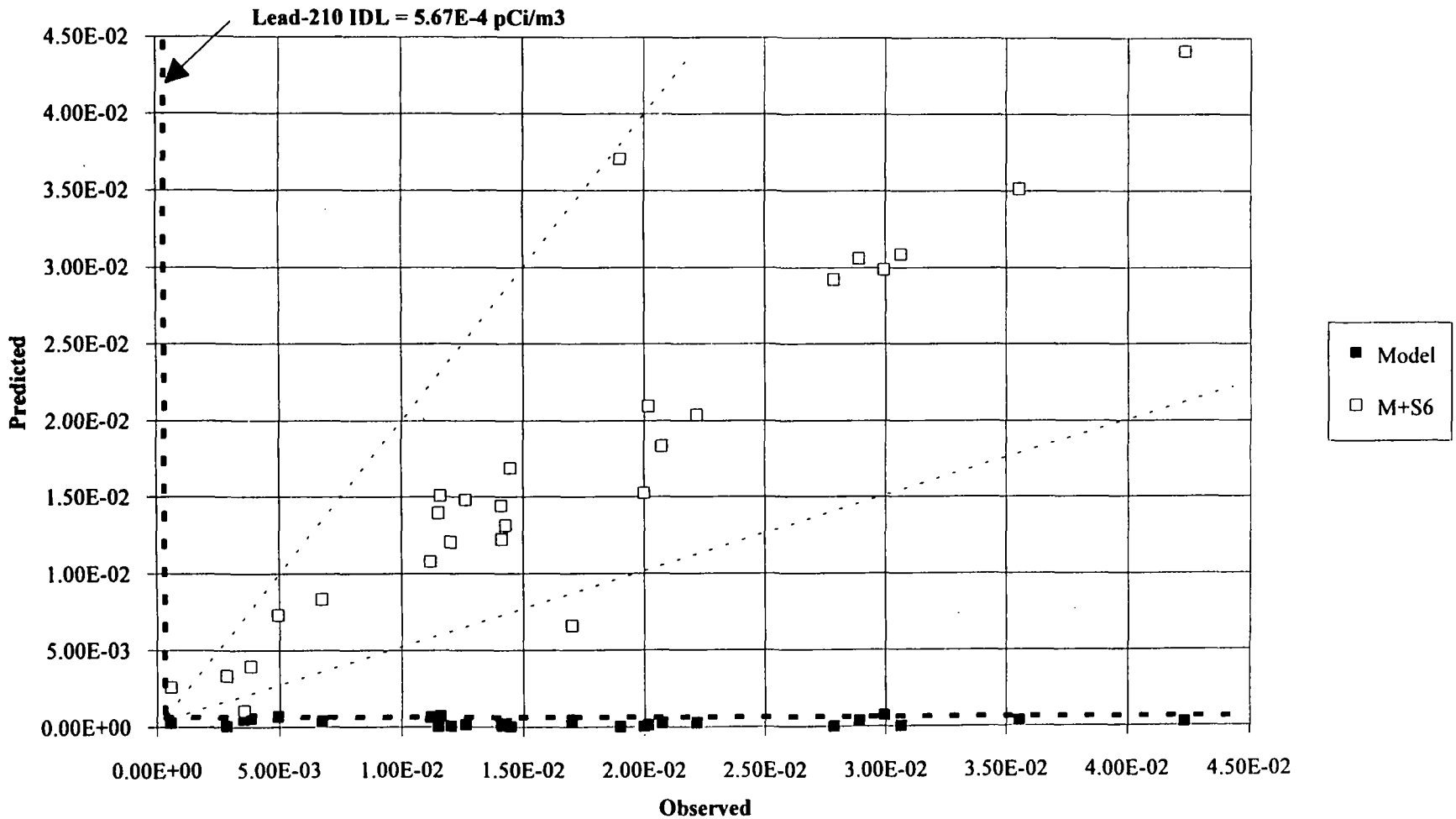


Figure AI-2-141
24-hour Lead-210 for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

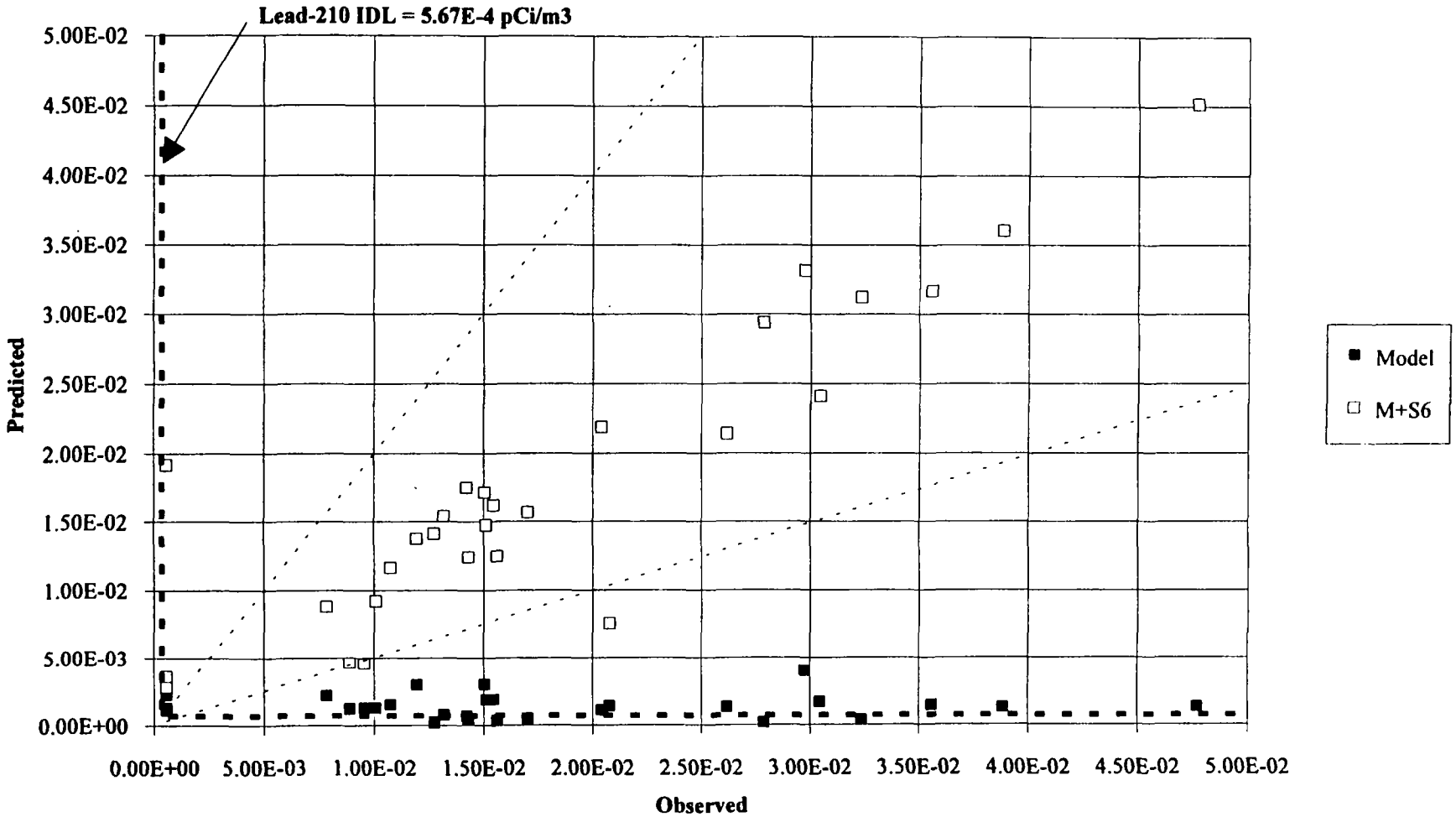


Figure AI-2-142
24-hour Lead-210 for Site 3 Oct. 1, 1993 to June 24, 1994 (Paired Data, Upwind/Downwind Data)

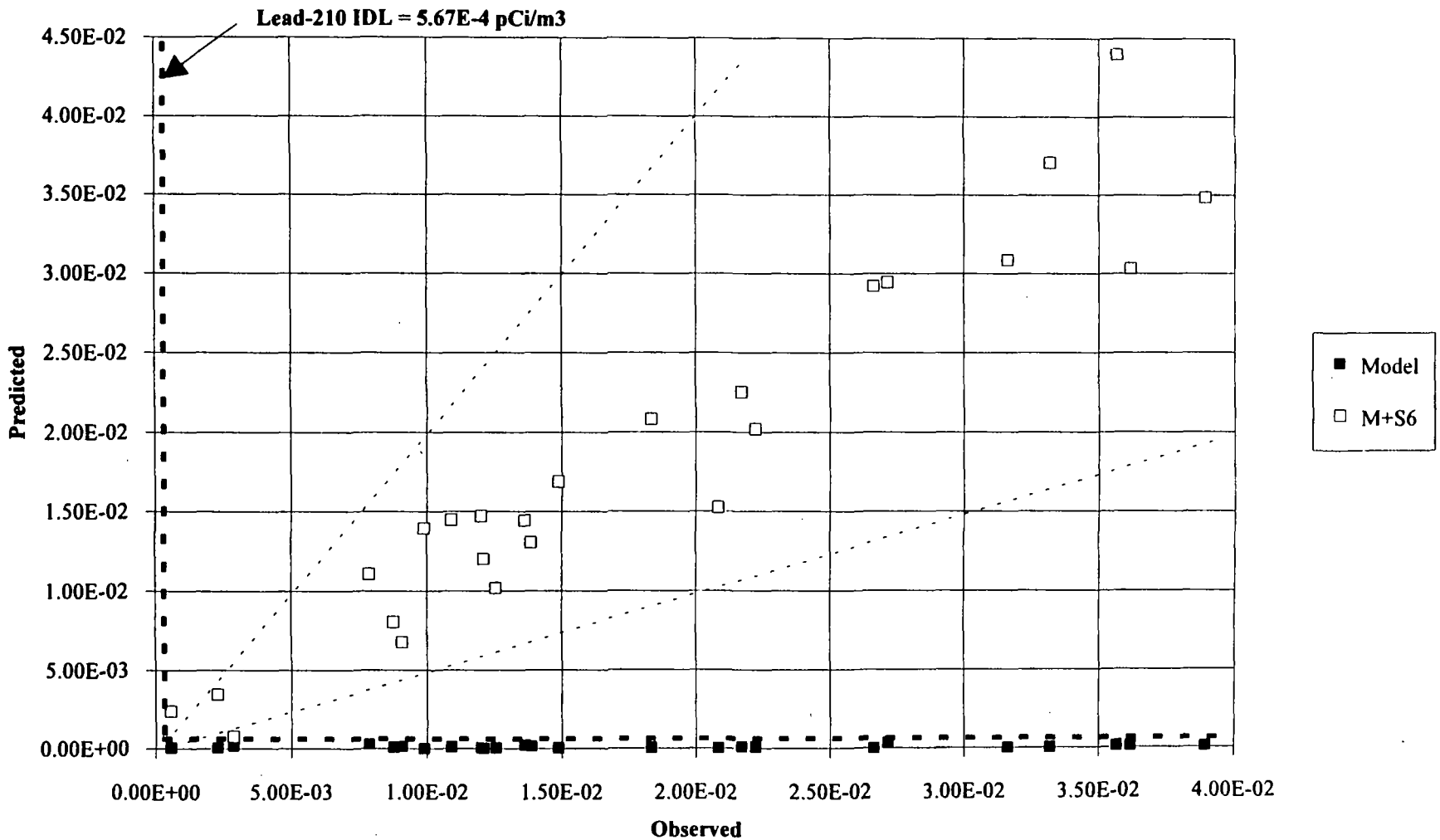


Figure AI-2-143
24-hour Lead-210 for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

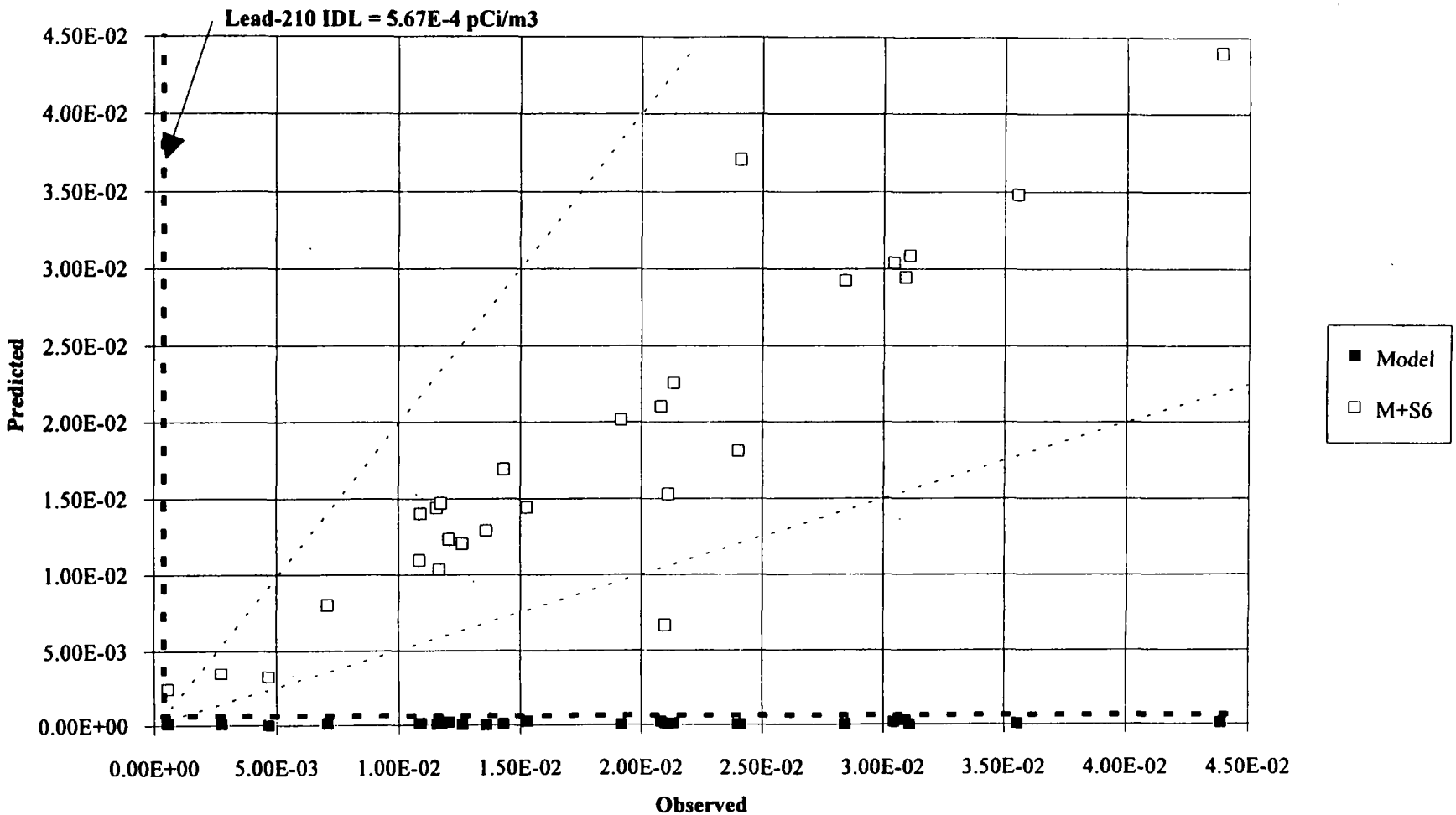


Figure AI-2-144
24-hour Lead-210 for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

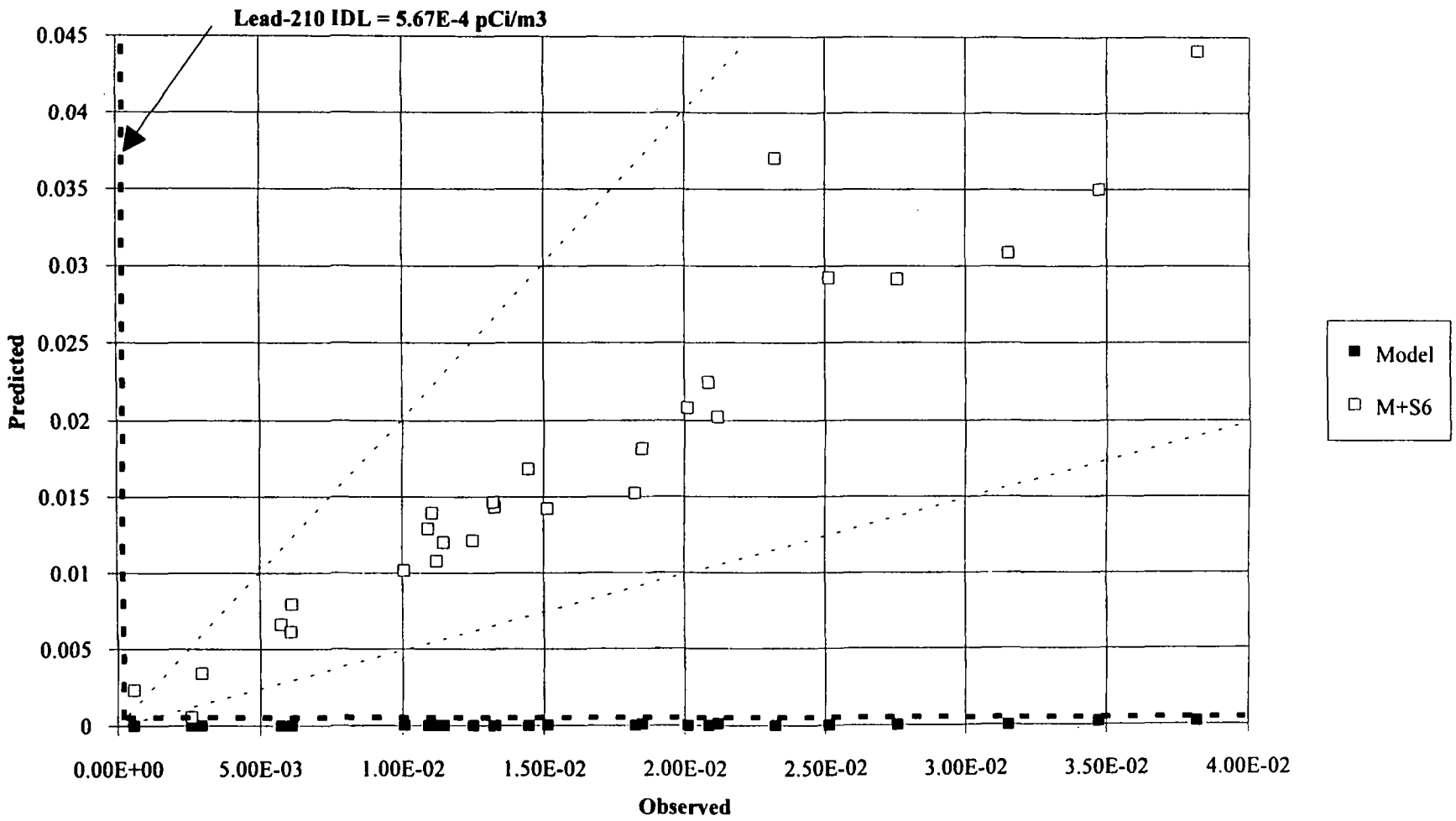


Figure AI-2-145
24-hour Lead-210 for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

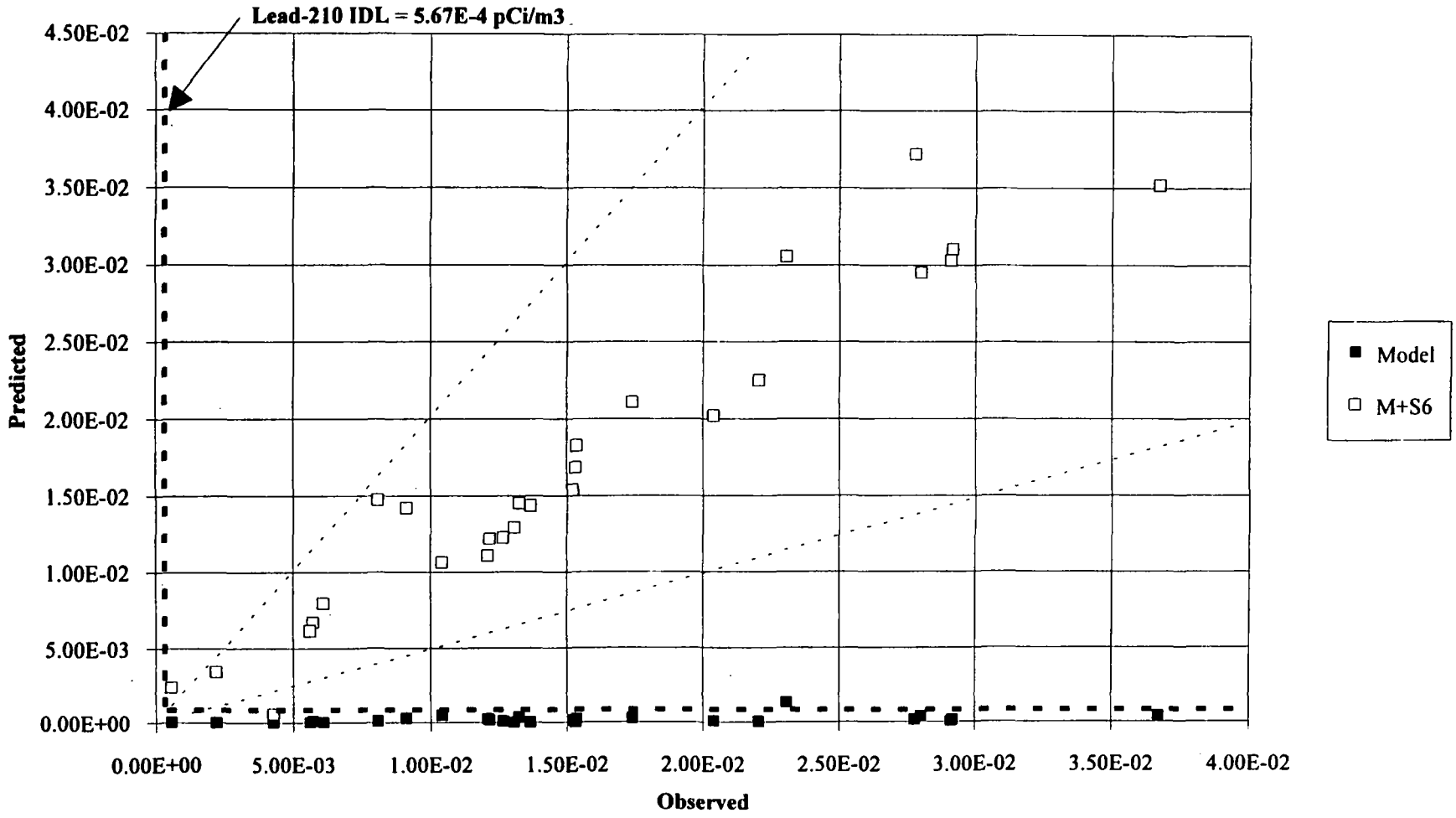


Figure AI-2-146
24-hour Polonium-210 for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

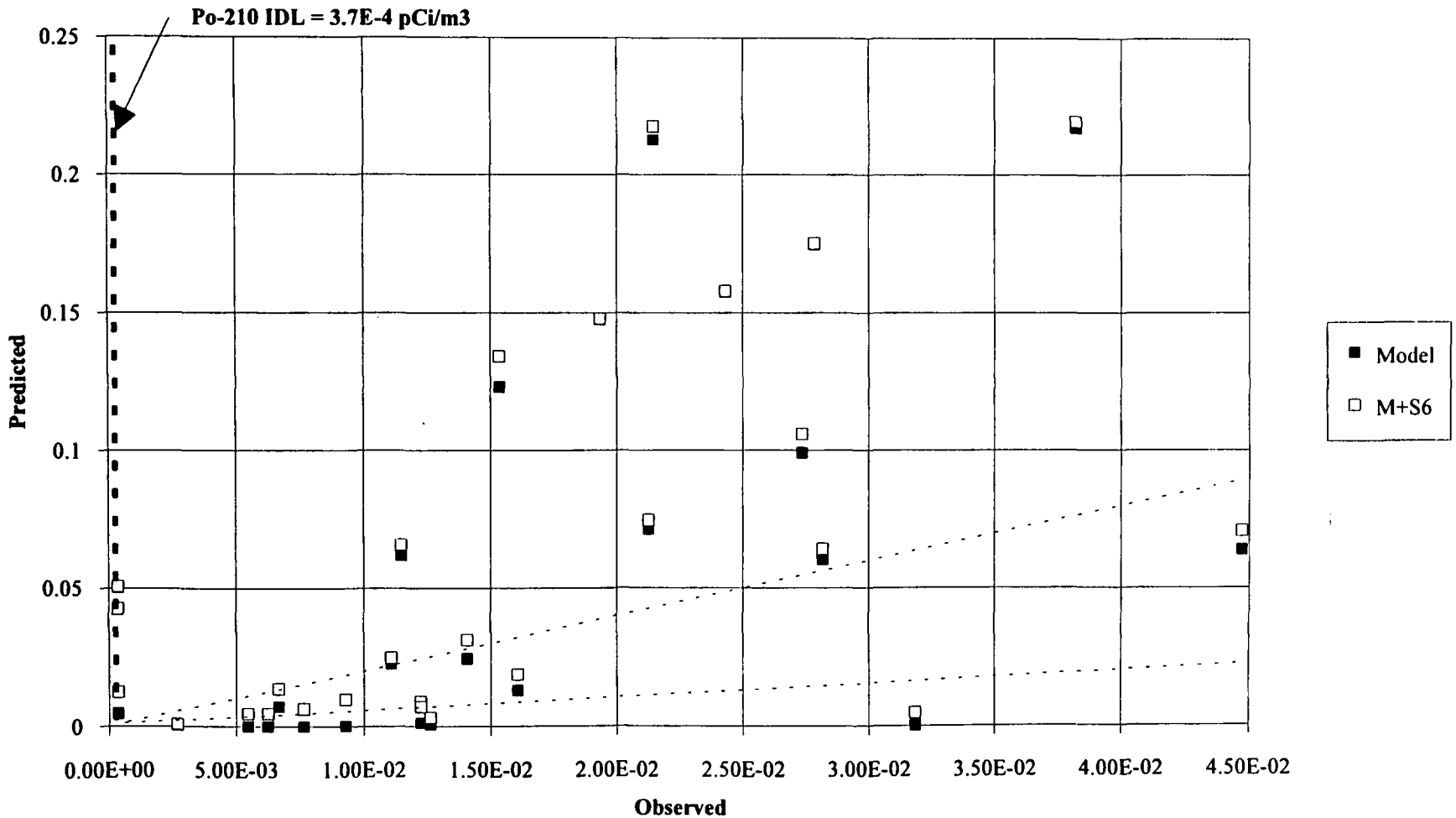


Figure AI-2-147
24-hour Polonium-210 for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

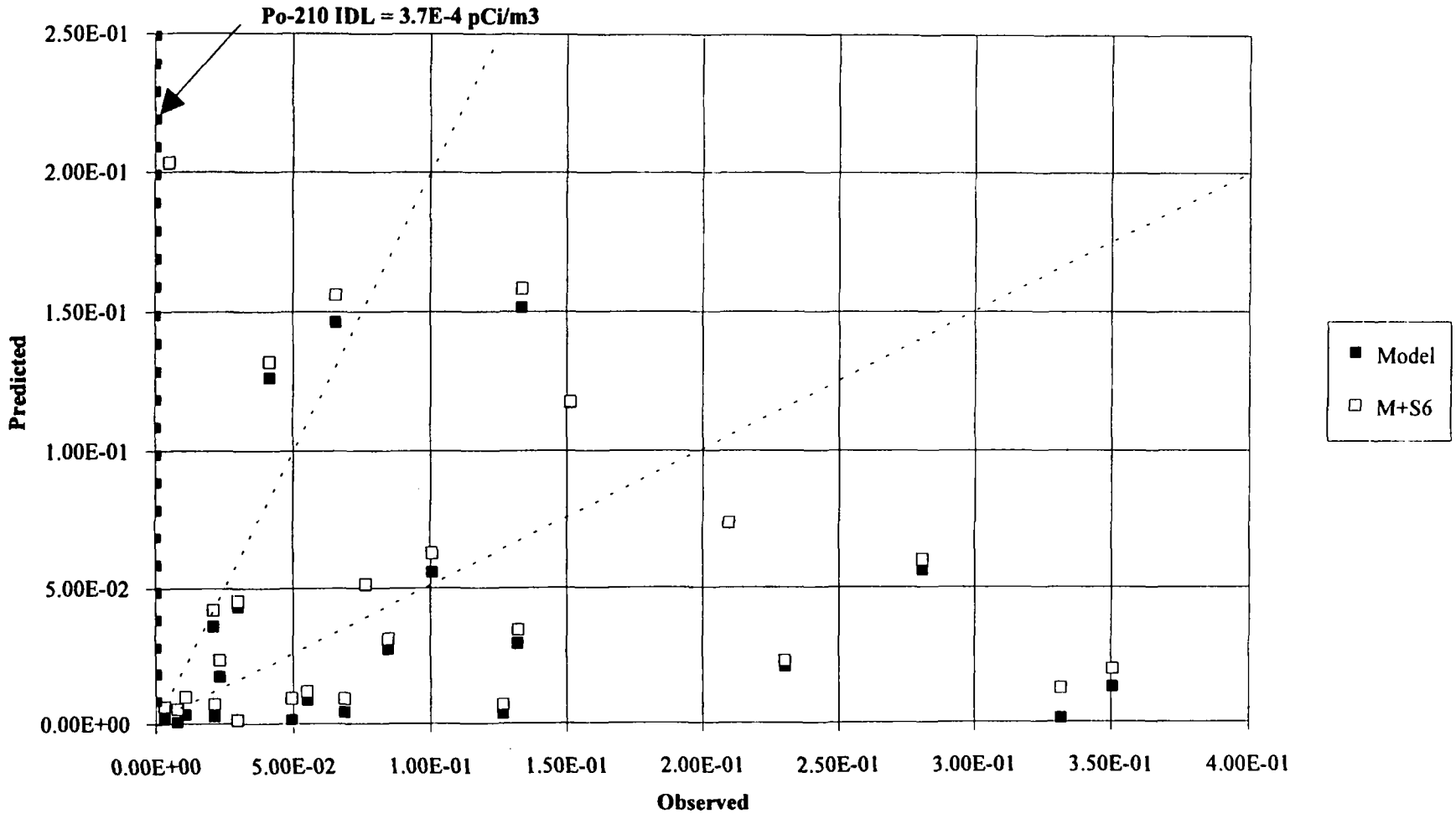


Figure AI-2-148
24-hour Polonium-210 for Site 3 Oct. 1, 1993 to June 24, 1994 (Paired Data, Upwind/Downwind Data)

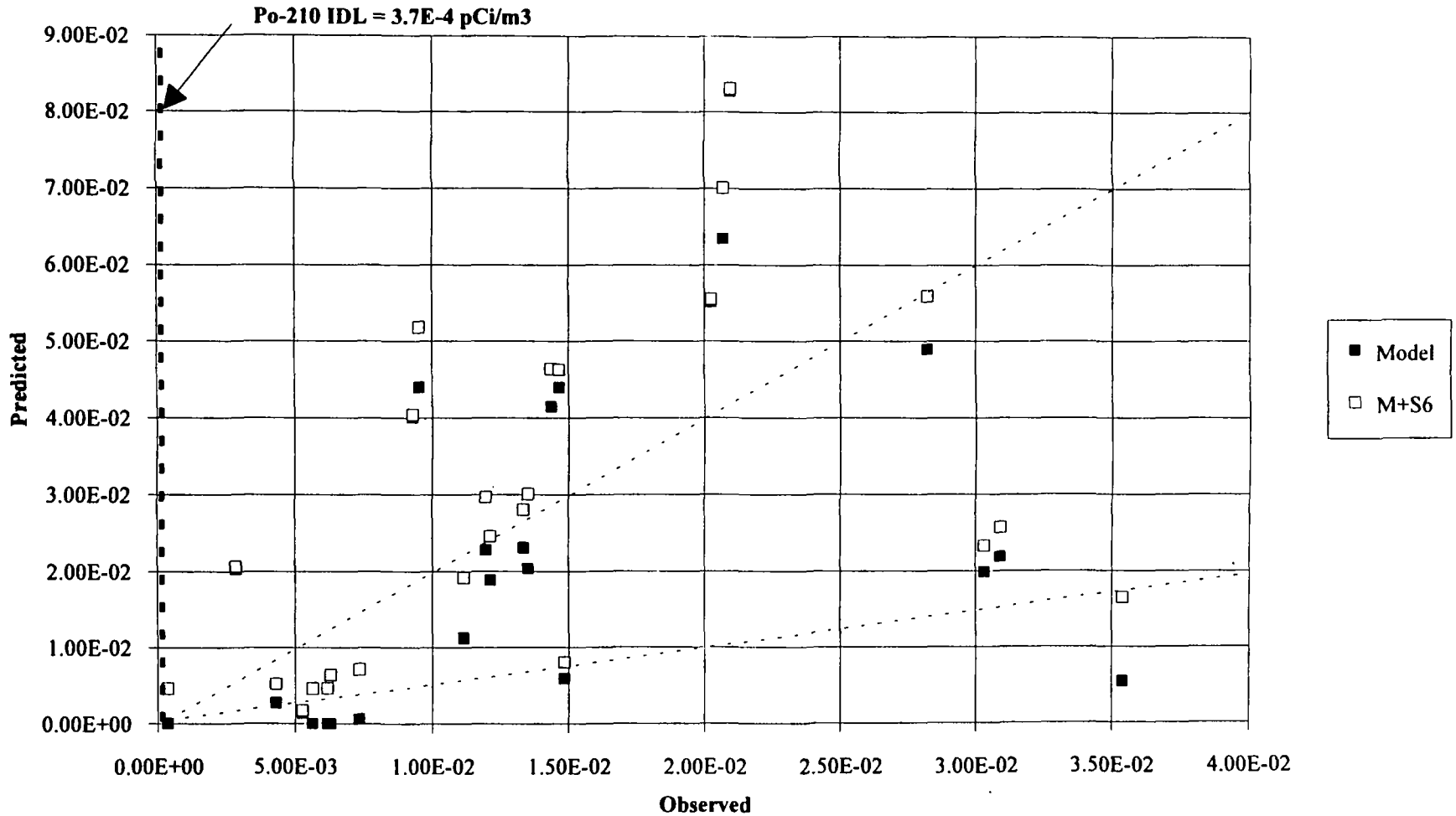


Figure AI-2-149
24-hour Polonium-210 for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

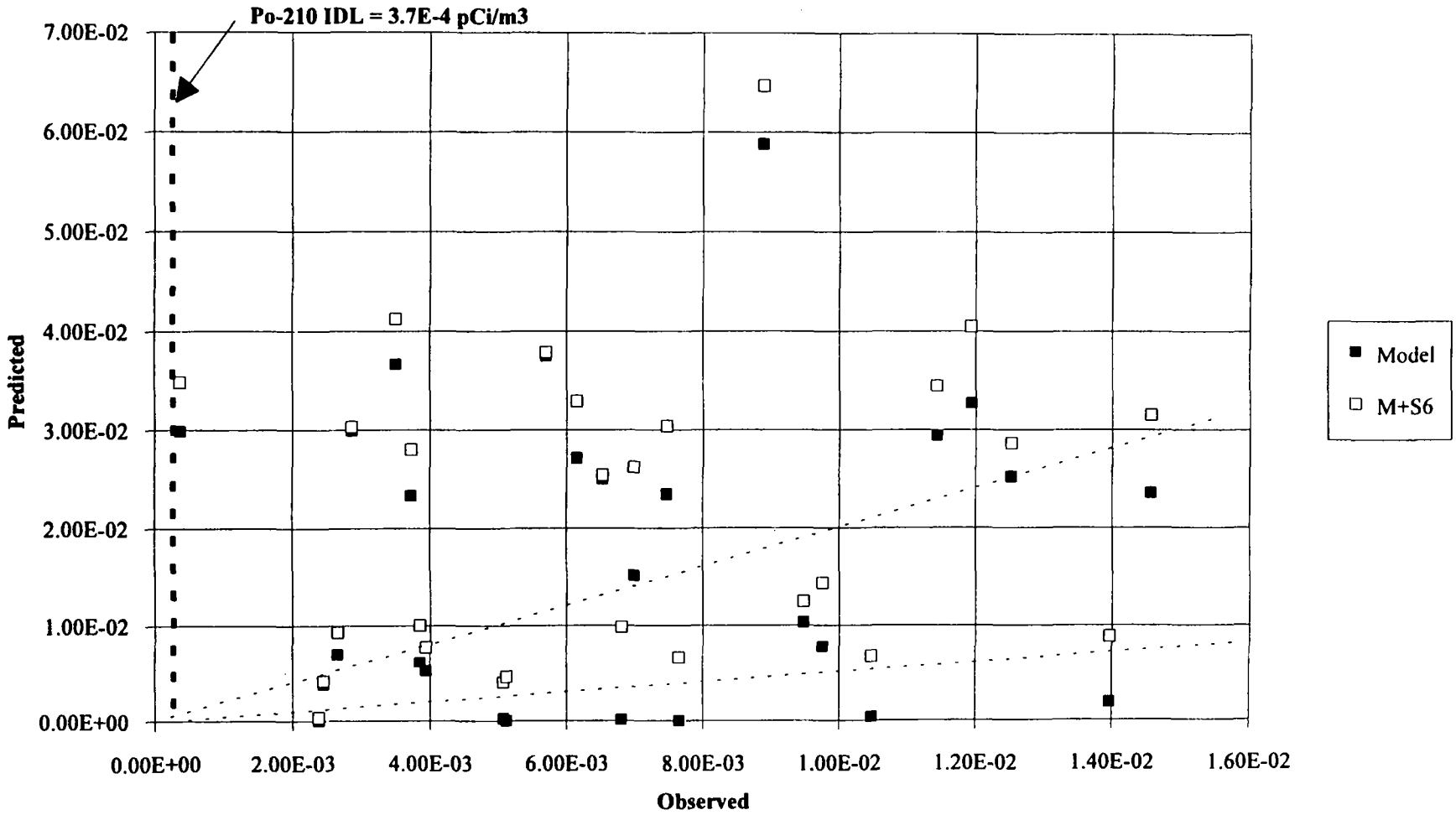


Figure AI-2-150
24-hour Polonium-210 for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

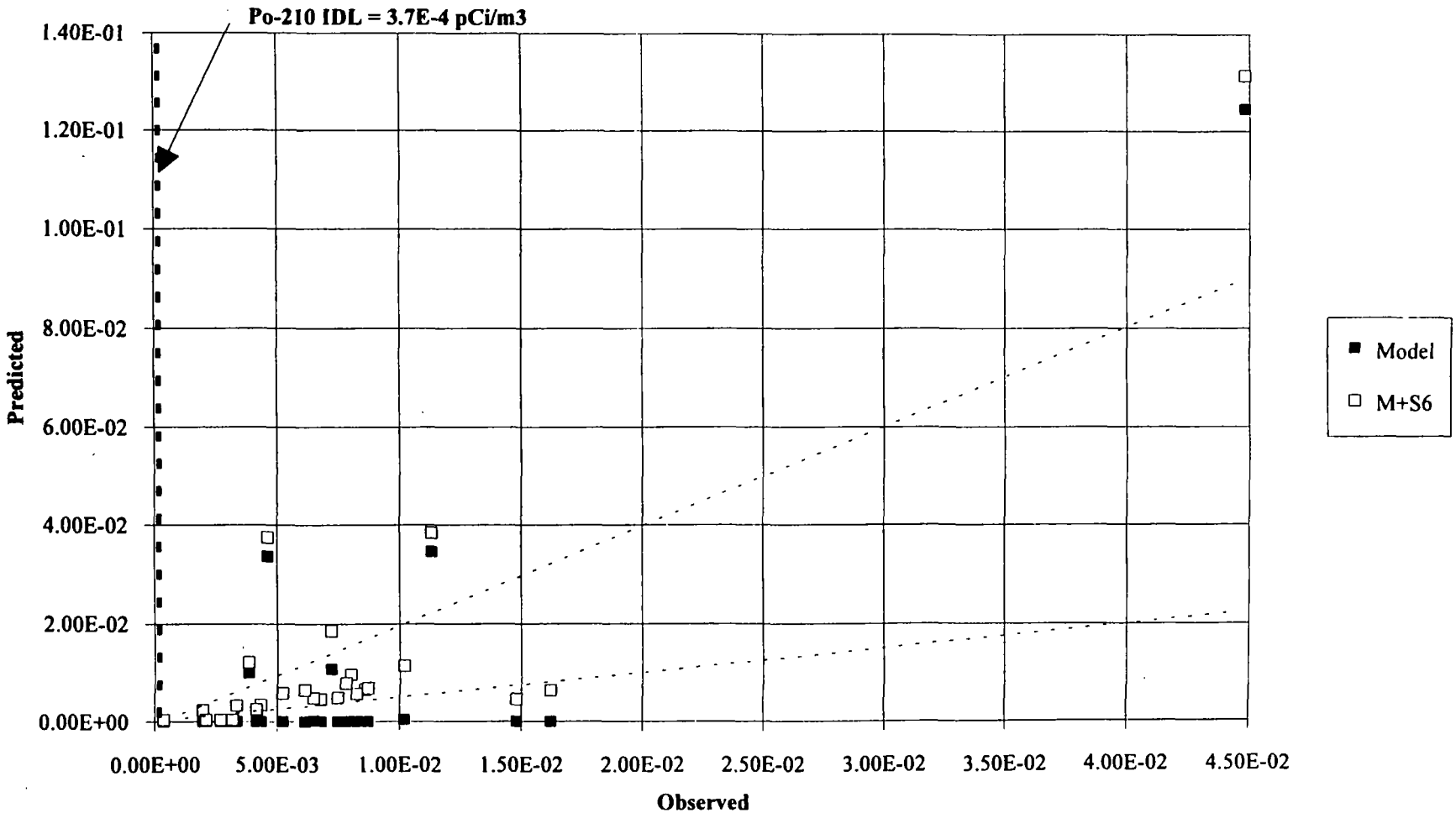


Figure AI-2-151
24-hour Polonium-210 for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

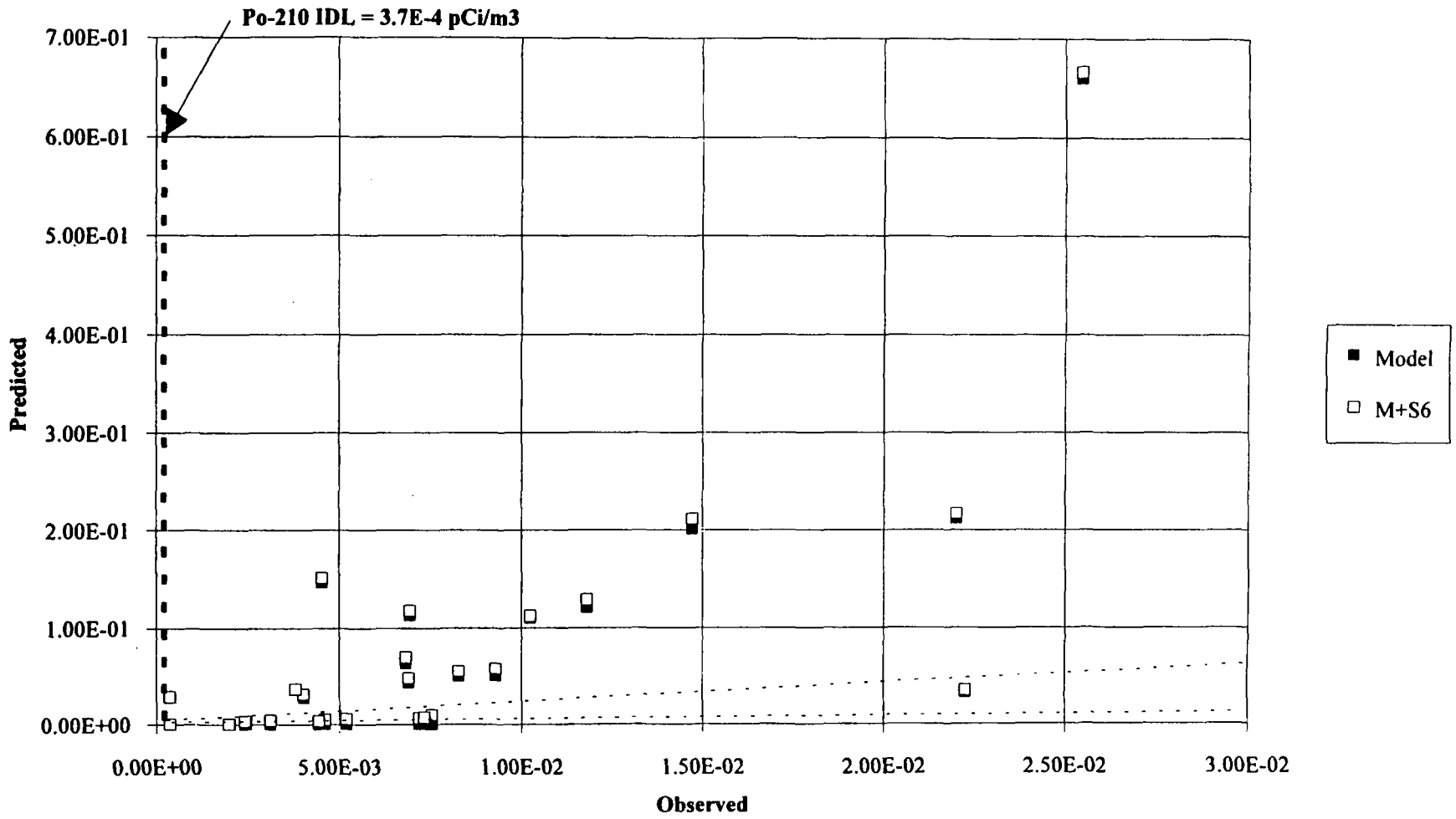


Figure AI-2-152
24-hour Radium-226 for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

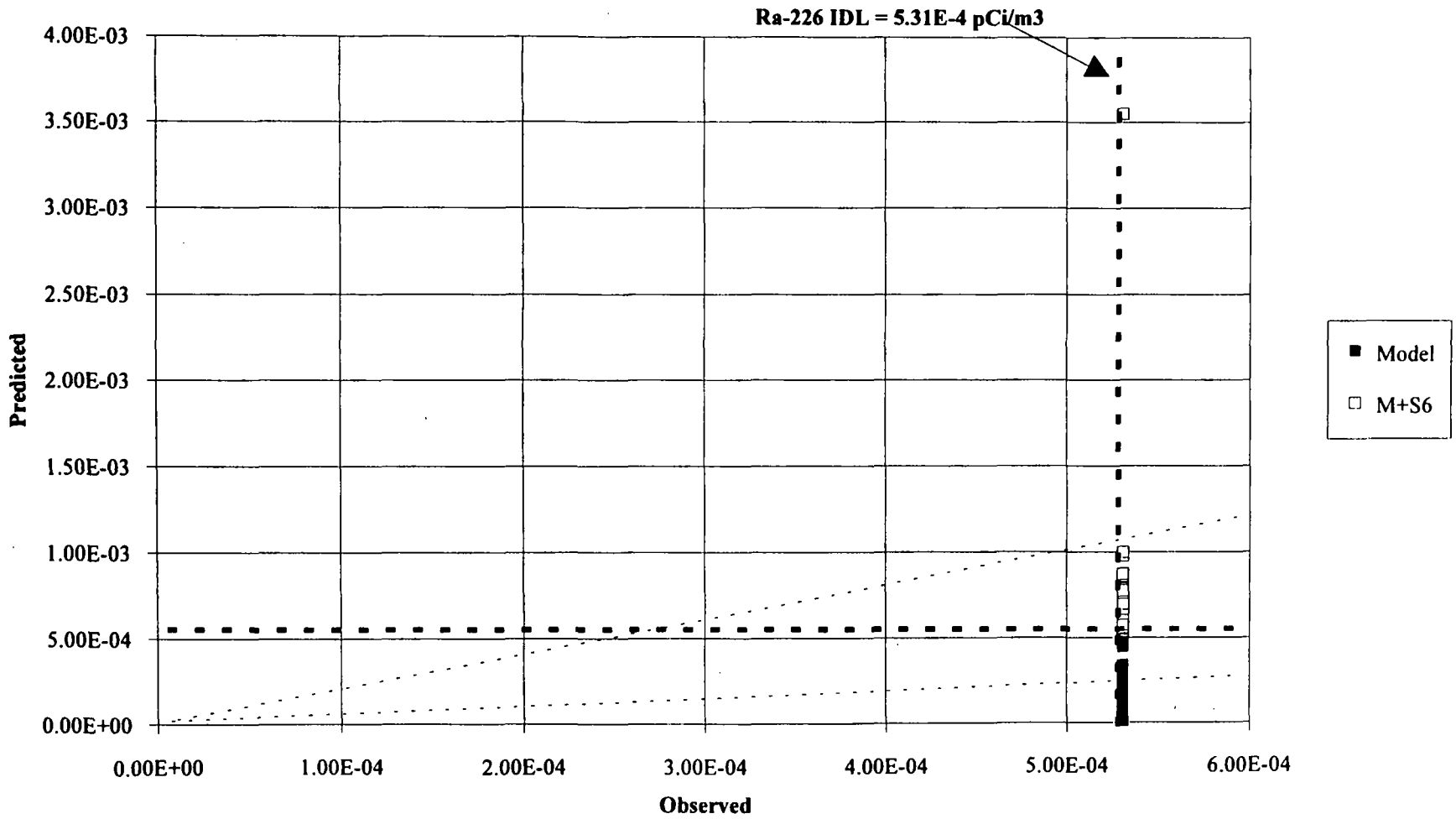


Figure AI-2-153
24-hour Radium-226 for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

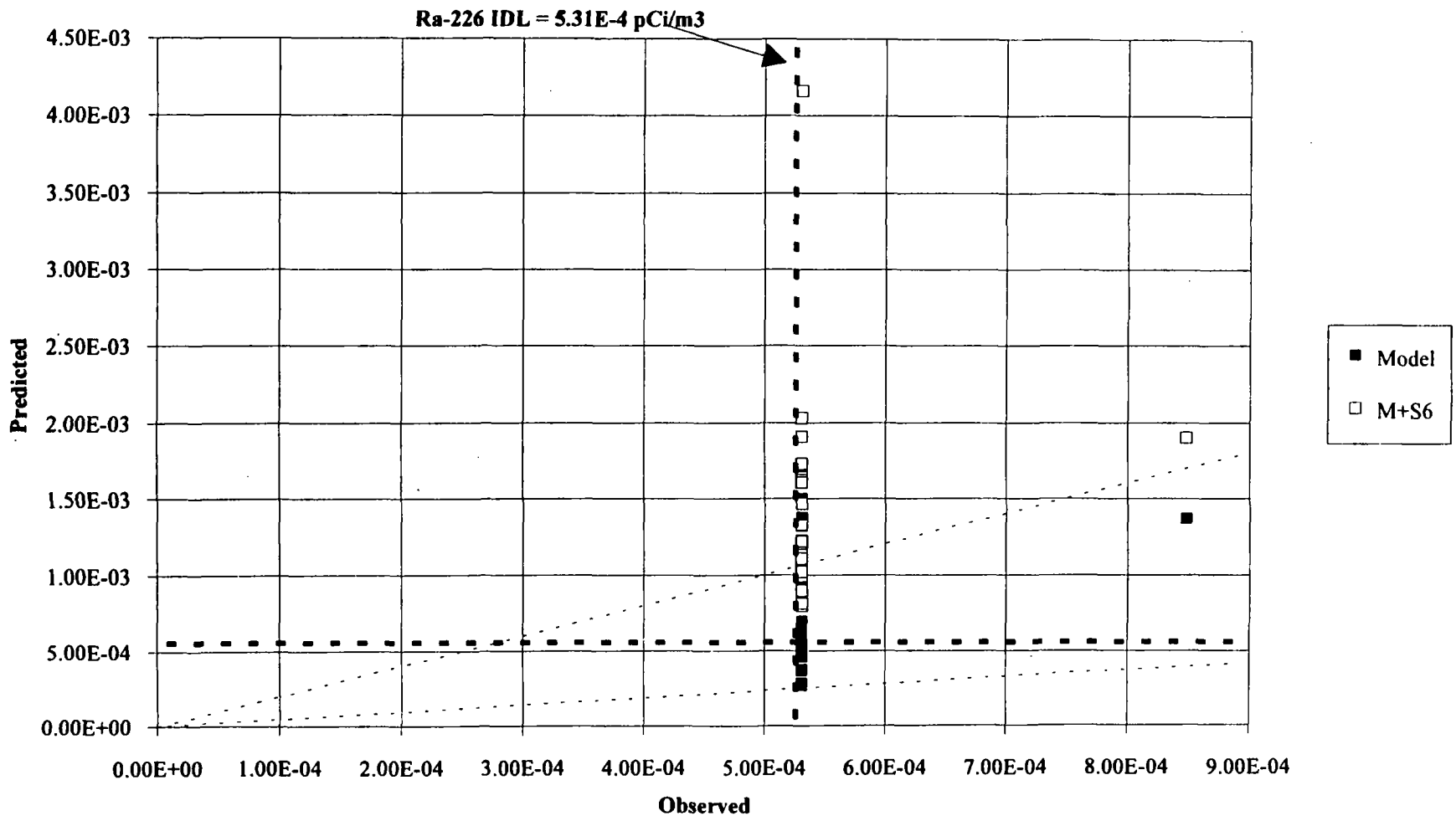


Figure AI-2-154
24-hour Radium-226 for Site 3 Oct. 1, 1993 to June 24, 1994 (Paired Data, Upwind/Downwind Data)

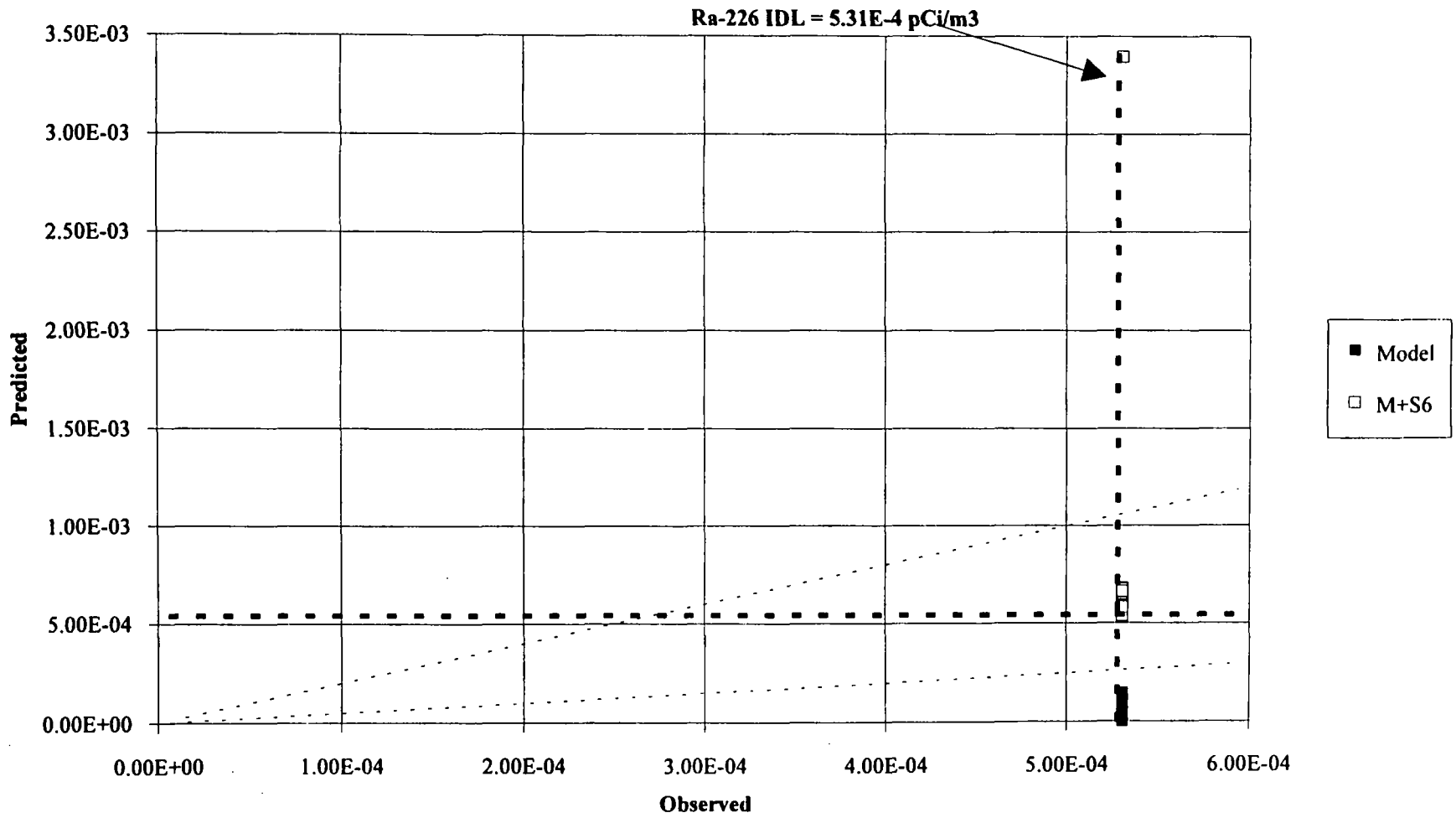


Figure AI-2-155
24-hour Radium-226 for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

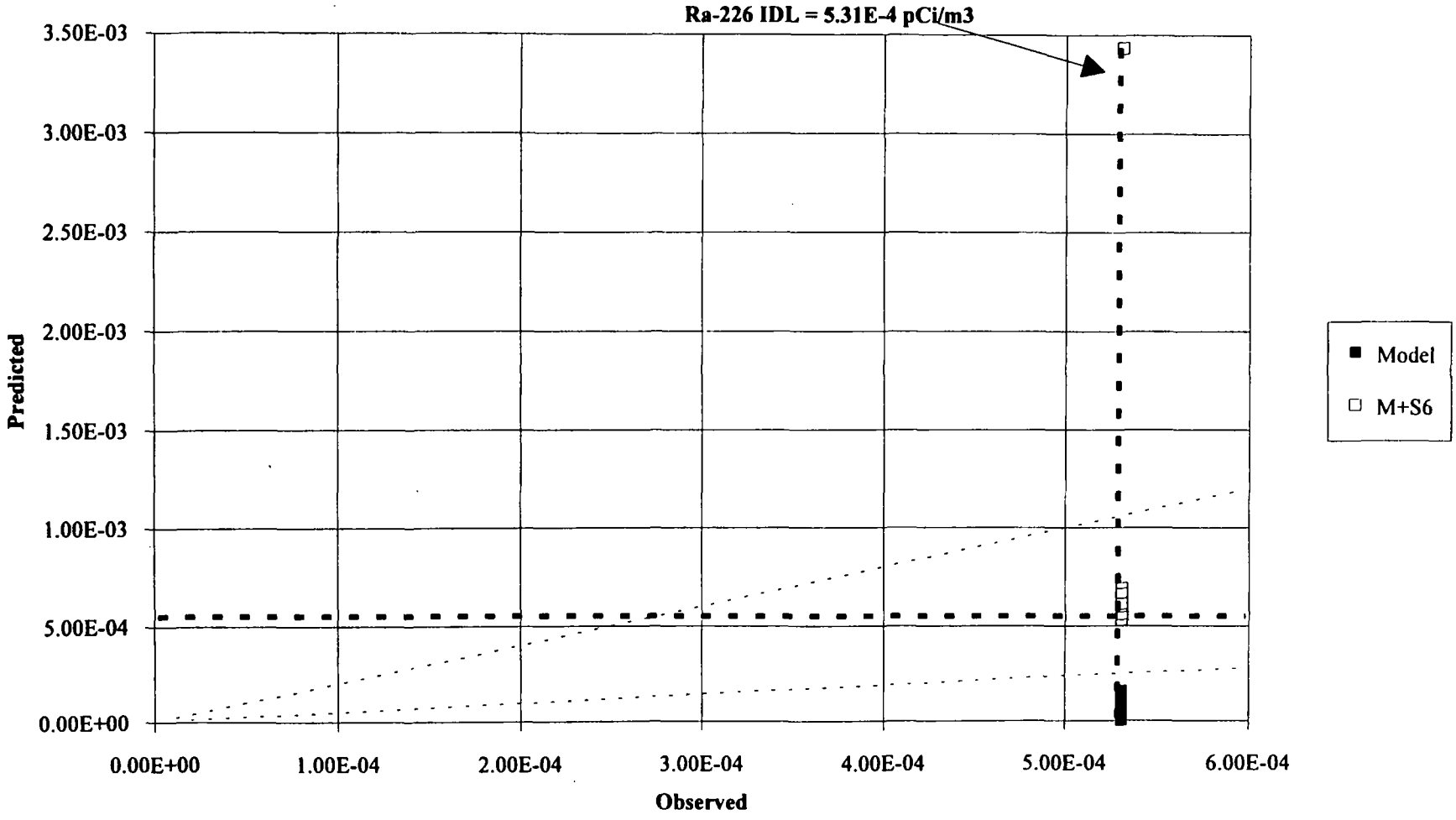


Figure AI-2-156
24-hour Radium-226 for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

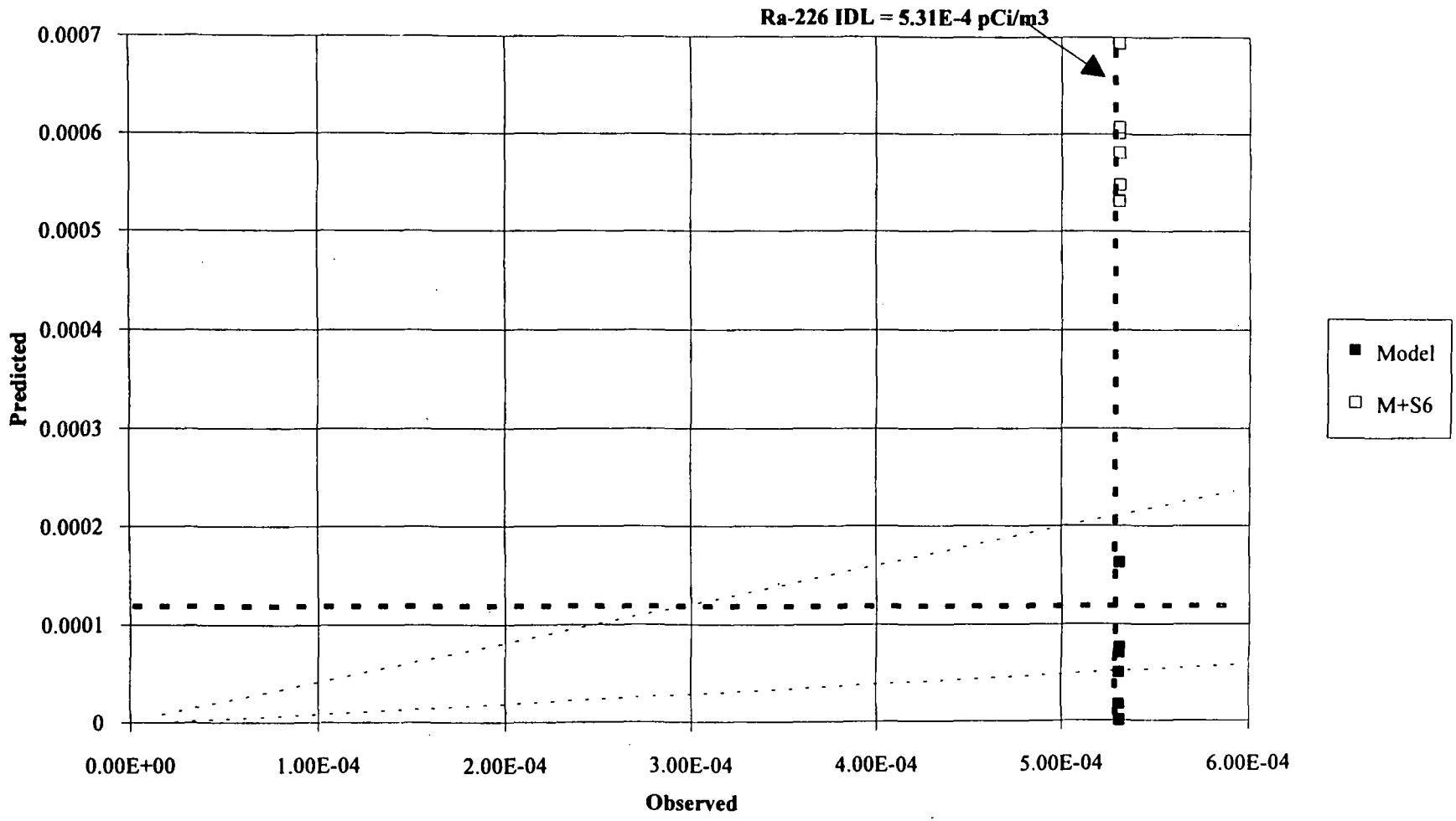


Figure AI-2-157
24-hour Radium-226 for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

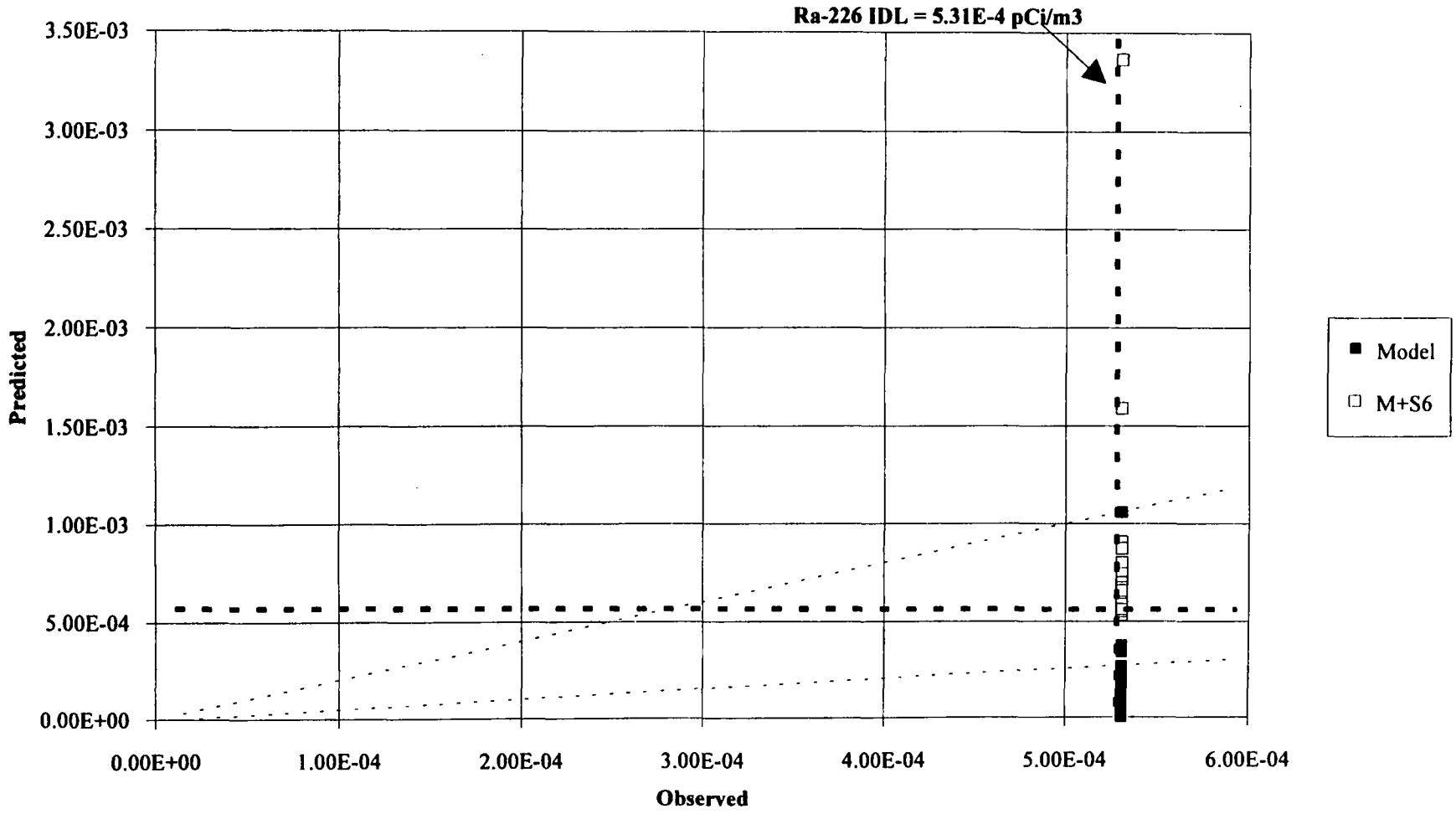


Figure AI-2-158
24-hour Thorium-230 for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

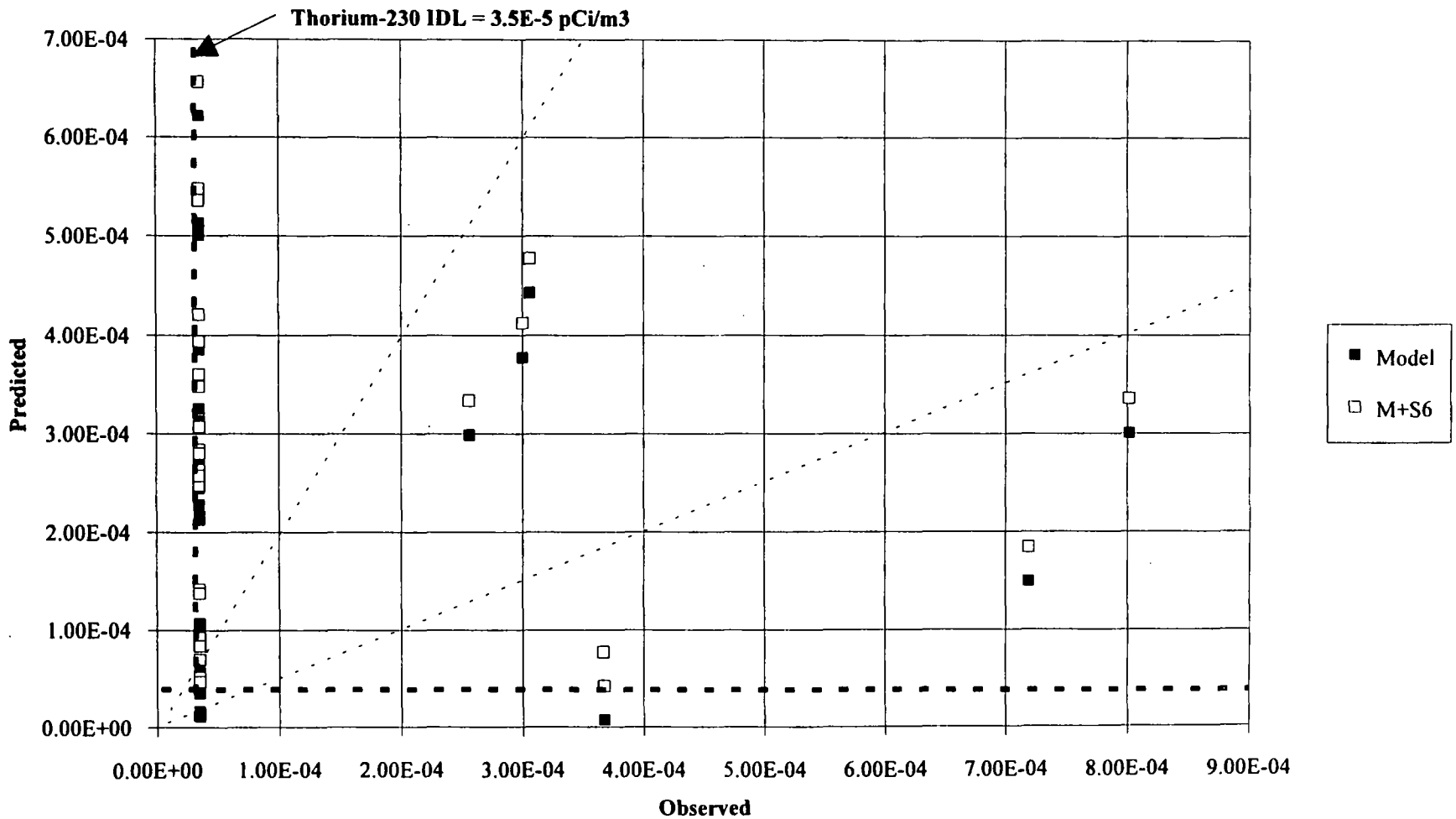


Figure AI-2-159
24-hour Thorium-230 for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

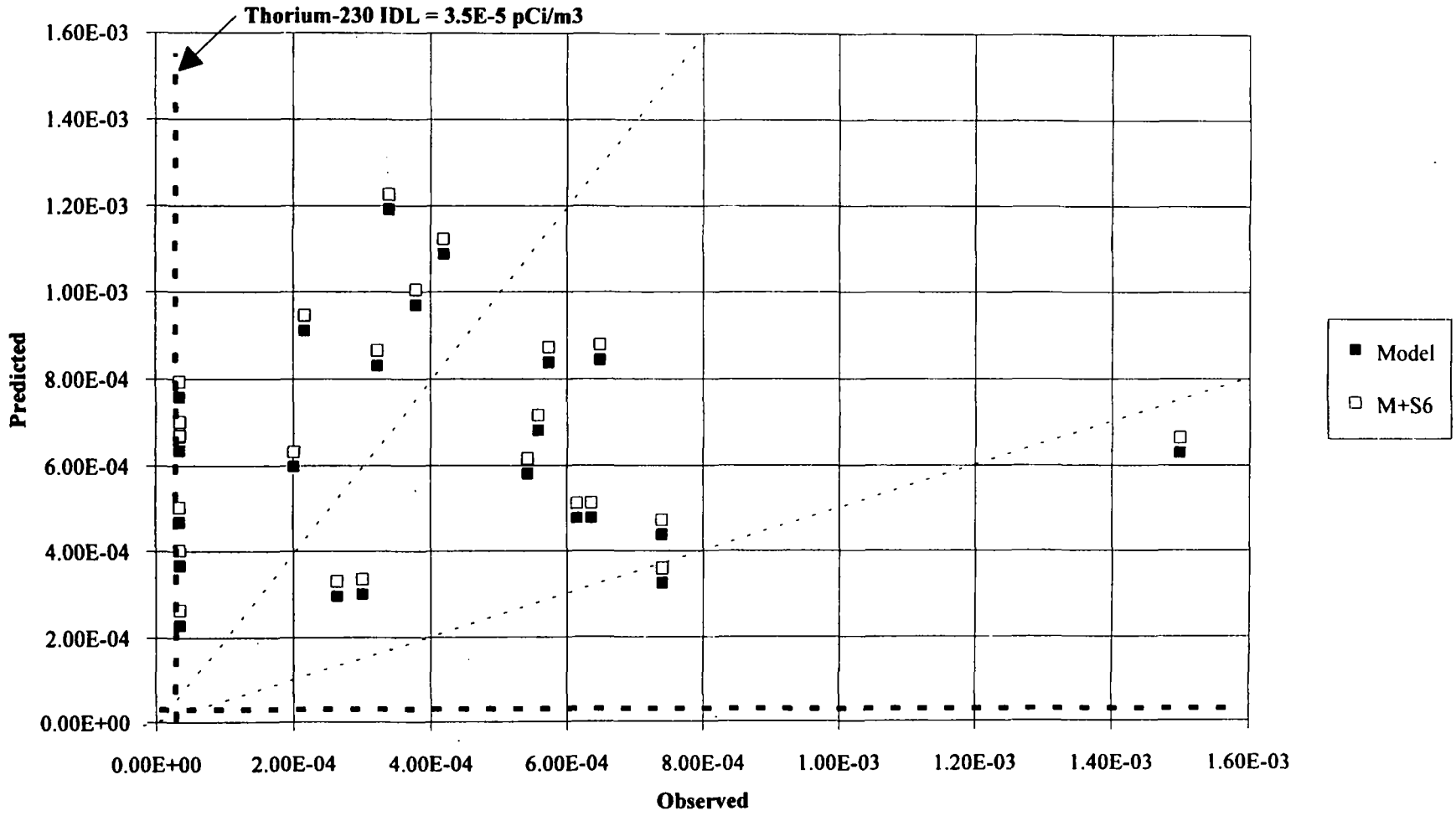


Figure AI-2-160
24-hour Thorium-230 for Site 3 Oct. 1, 1993 to June 24, 1994 (Paired Data, Upwind/Downwind Data)

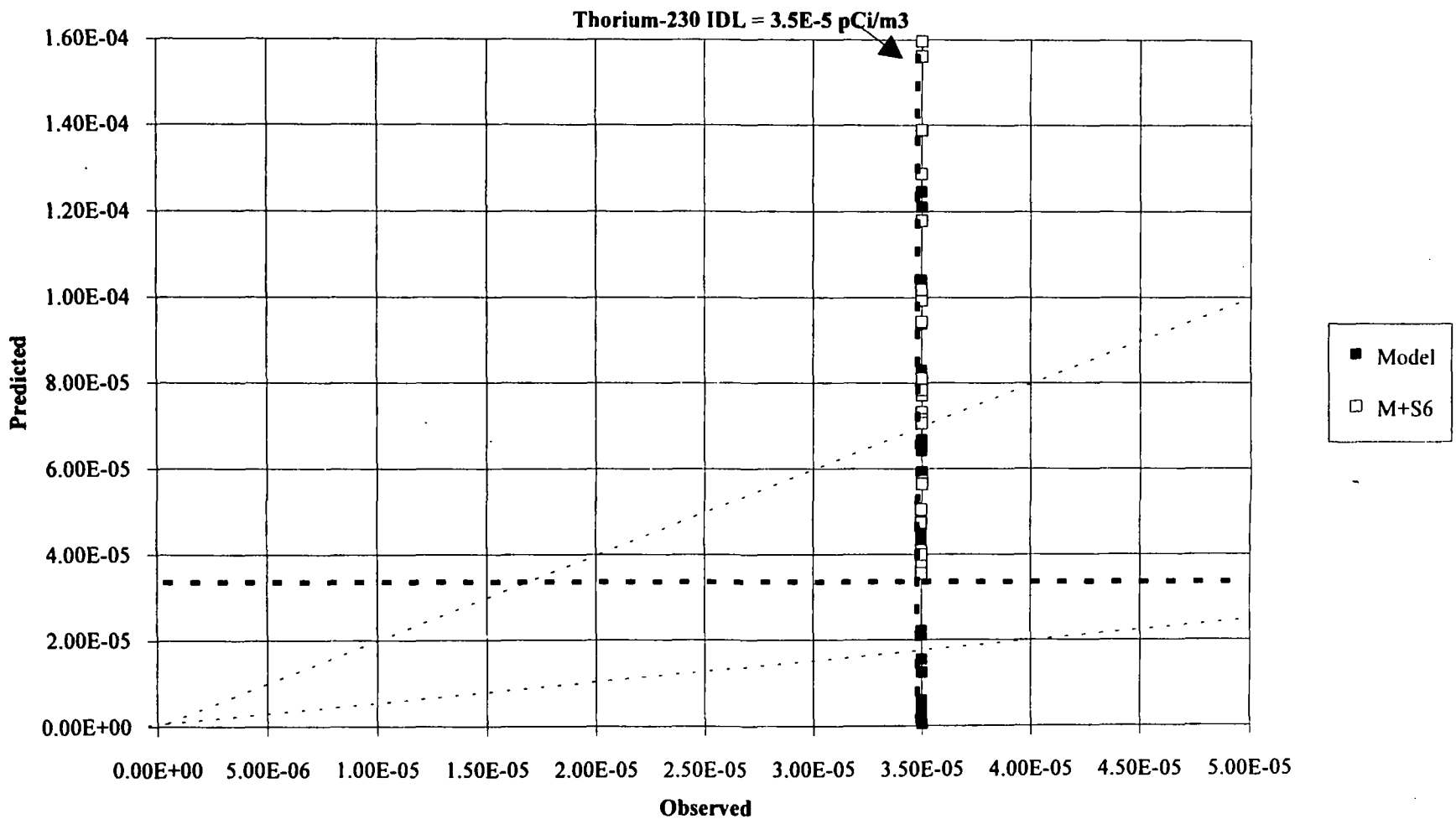


Figure AI-2-161
24-hour Thorium-230 for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

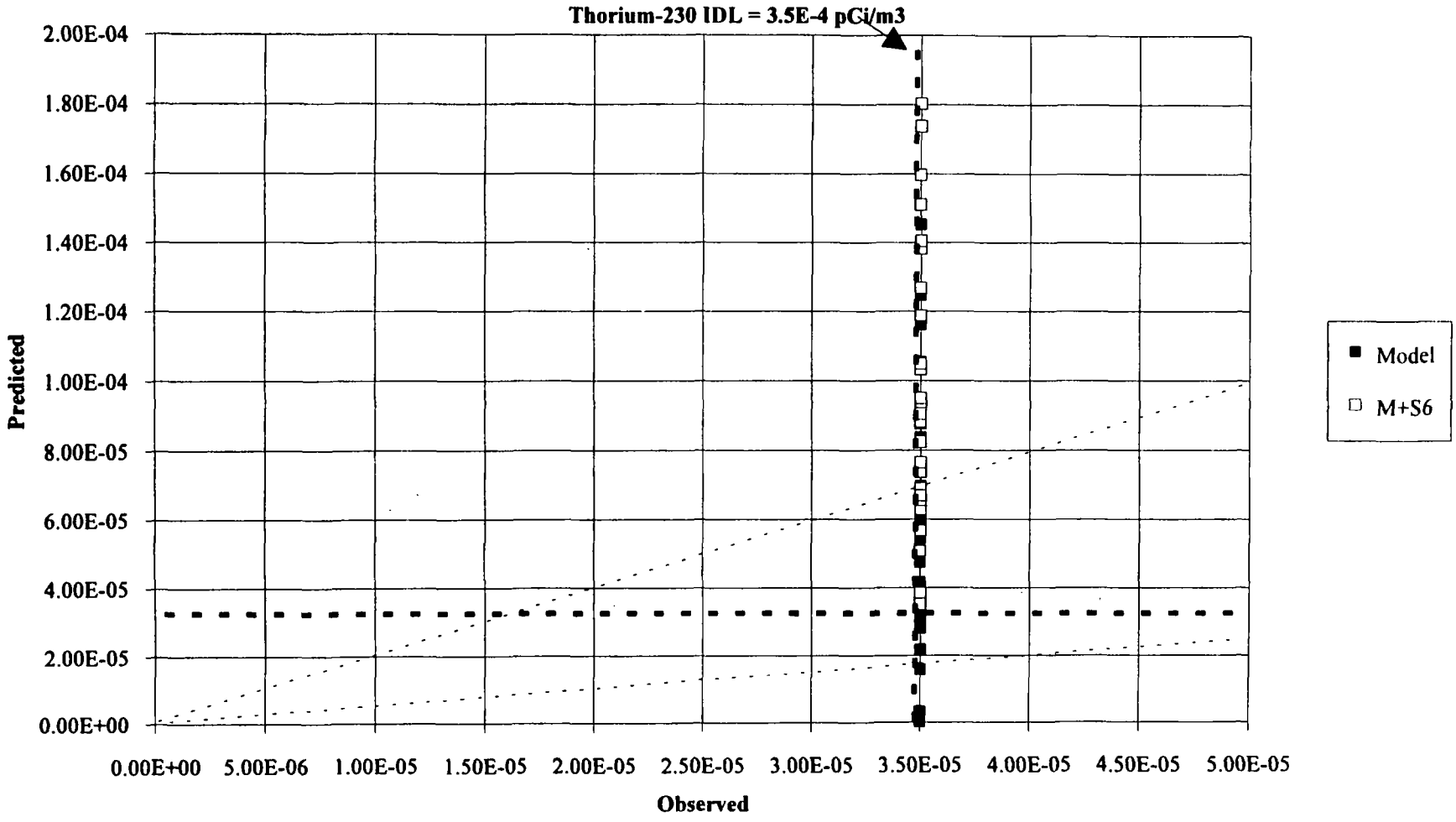


Figure AI-2-162
24-hour Thorium-230 for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

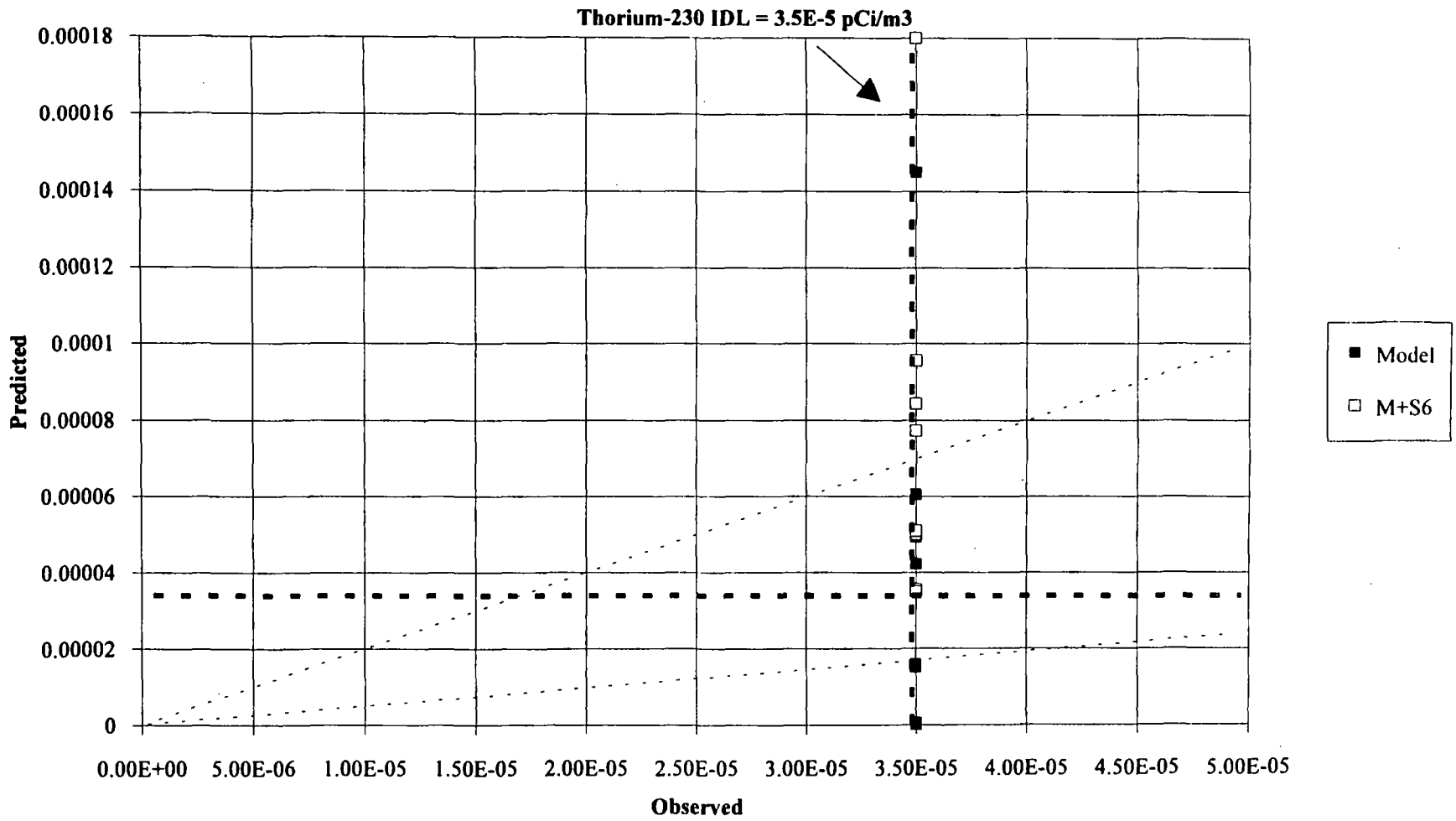


Figure AI-2-163
24-hour Thorium-230 for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

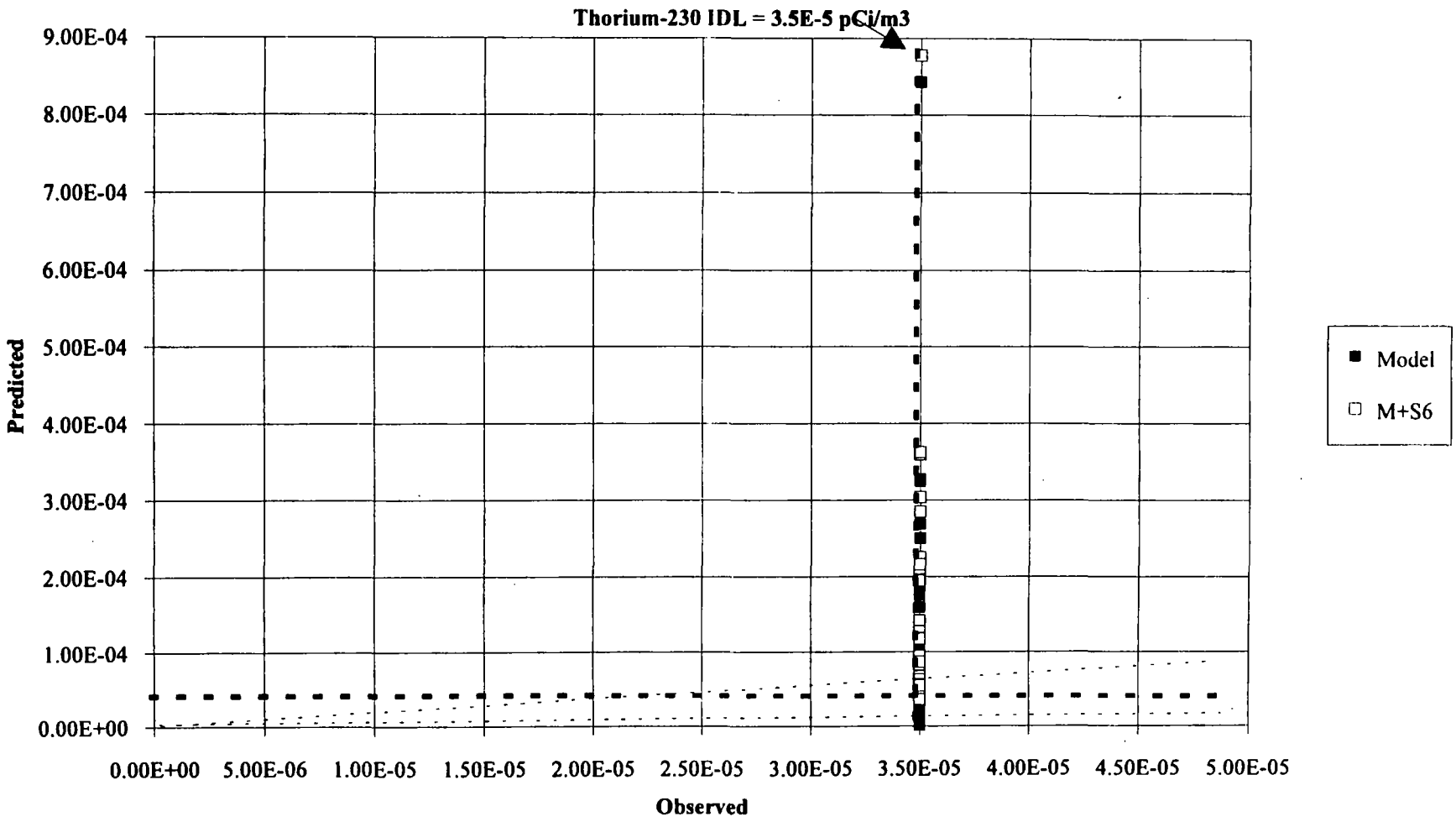


Figure AI-2-164
24-hour Uranium-238 for Site 1 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

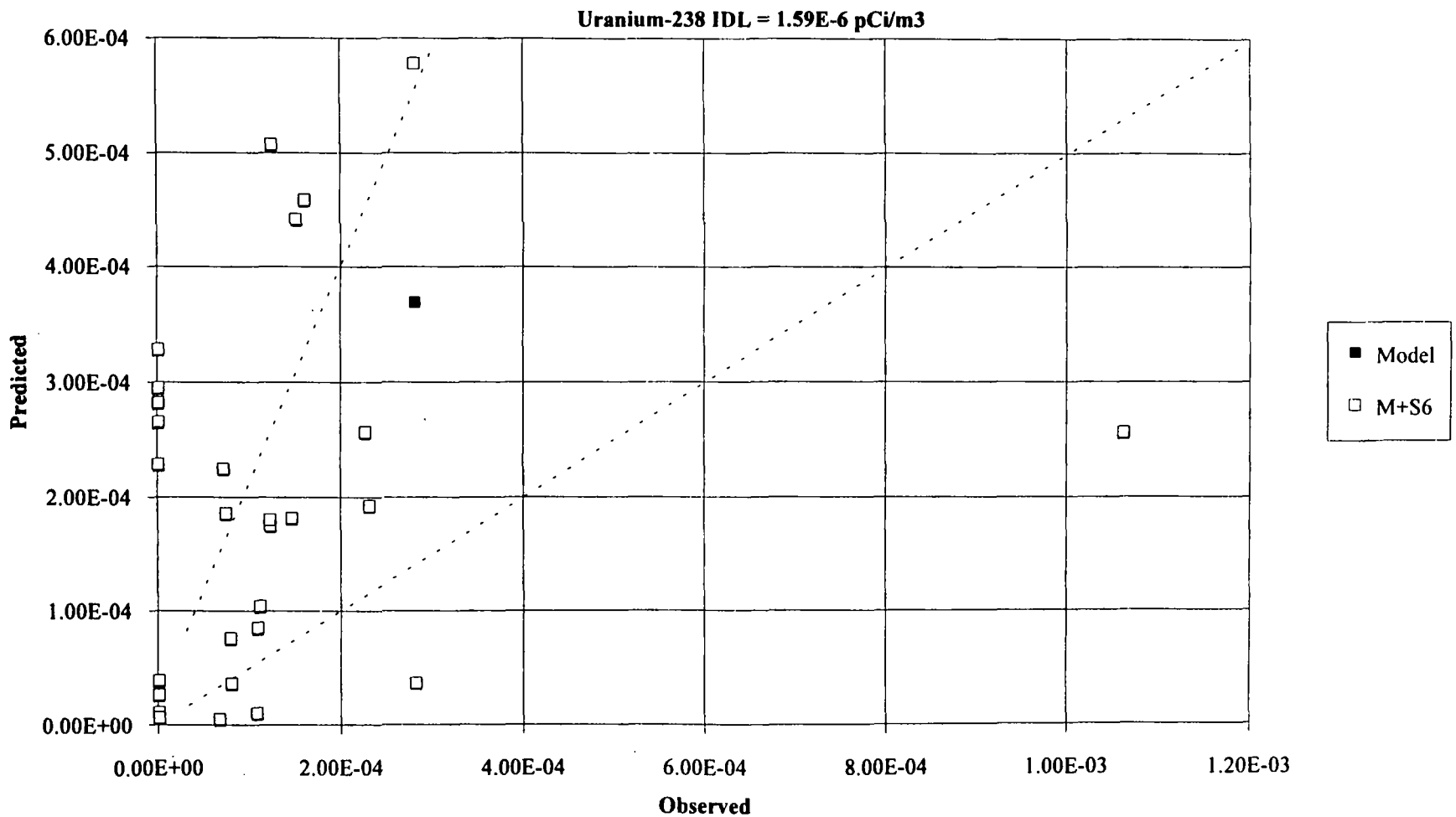


Figure AI-2-165
24-hour Uranium-238 for Site 2 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

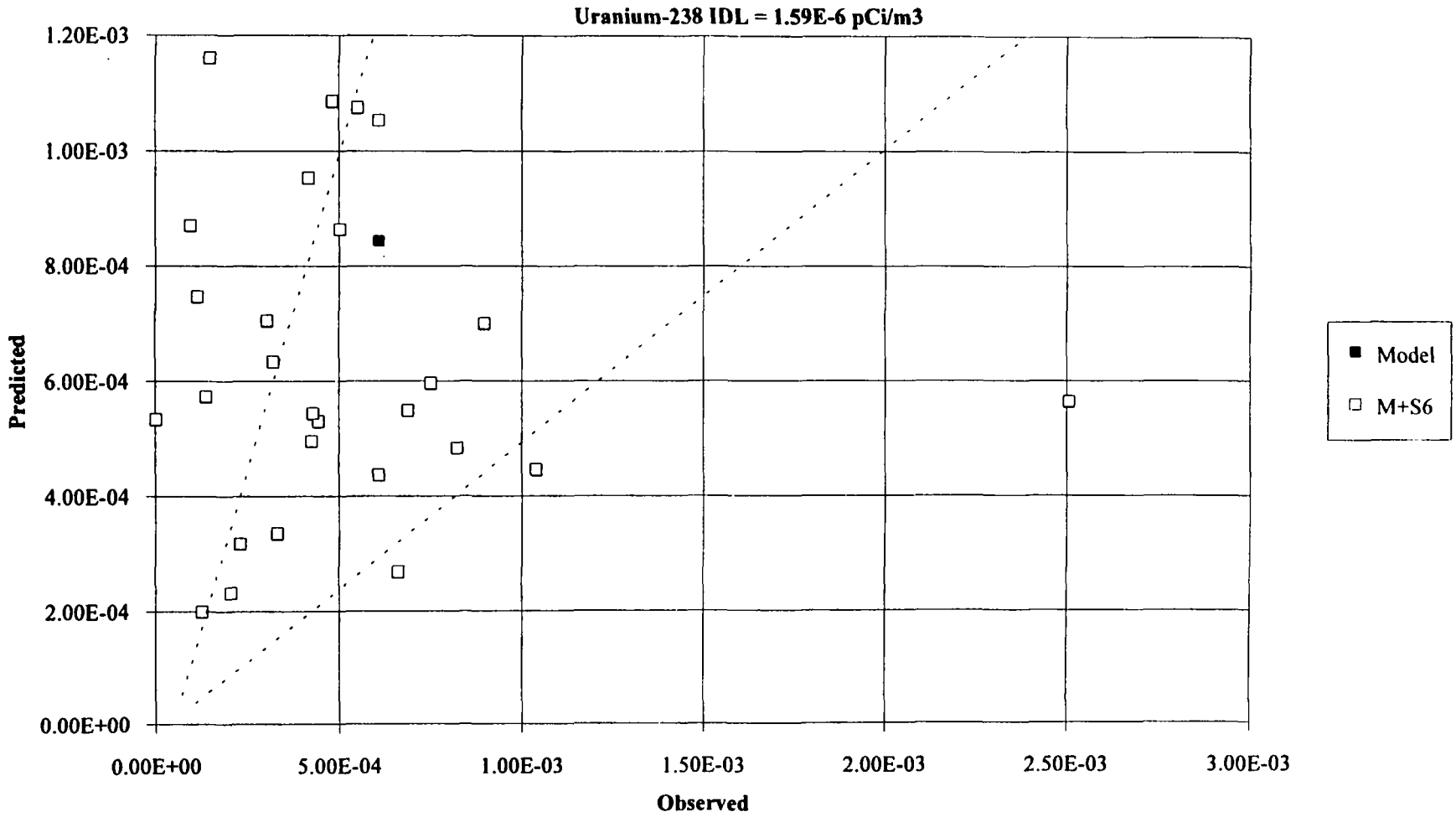


Figure AI-2-167
24-hour Uranium-238 for Site 4 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

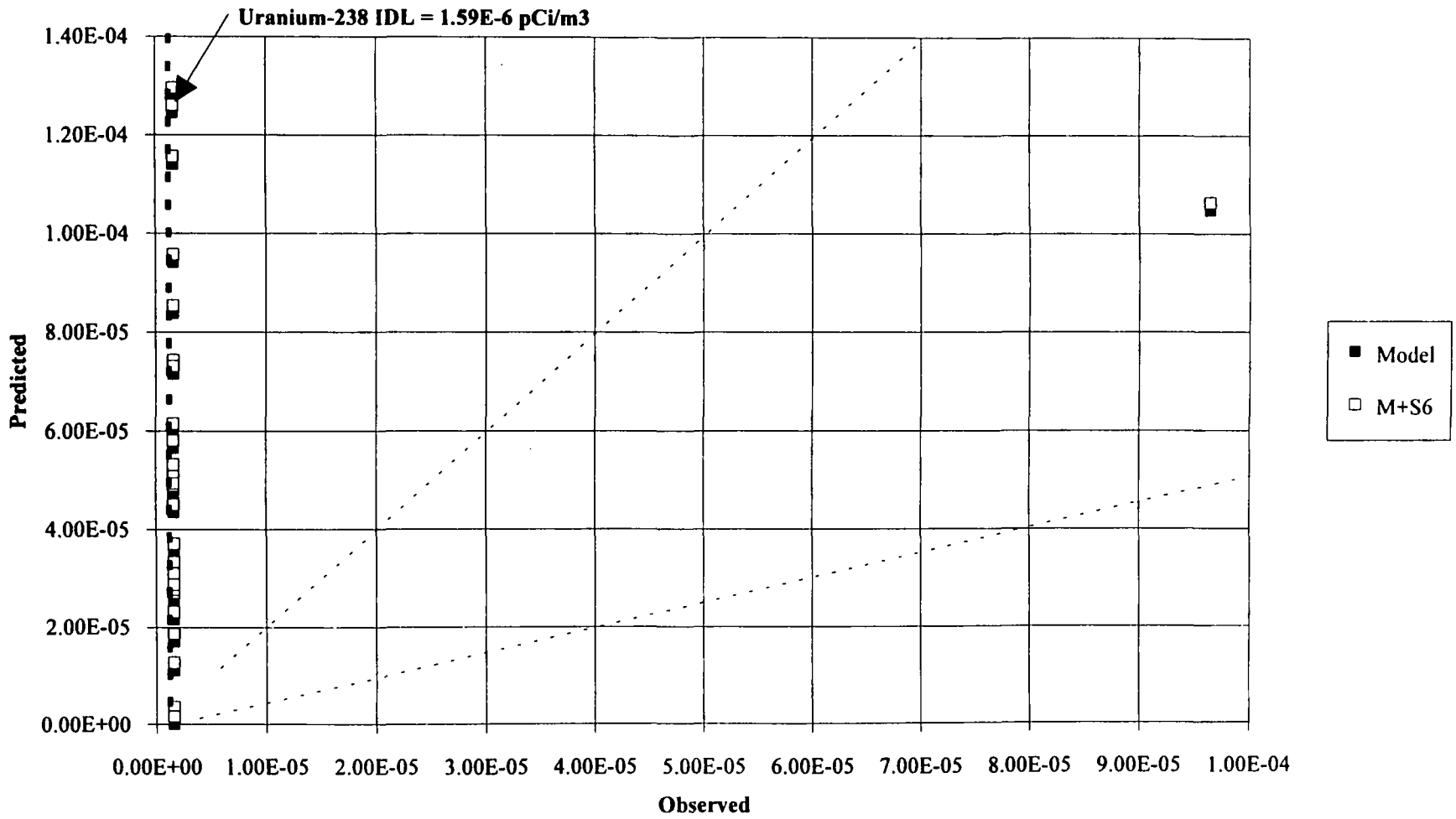


Figure AI-2-168
24-hour Uranium-238 for Site 5 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)

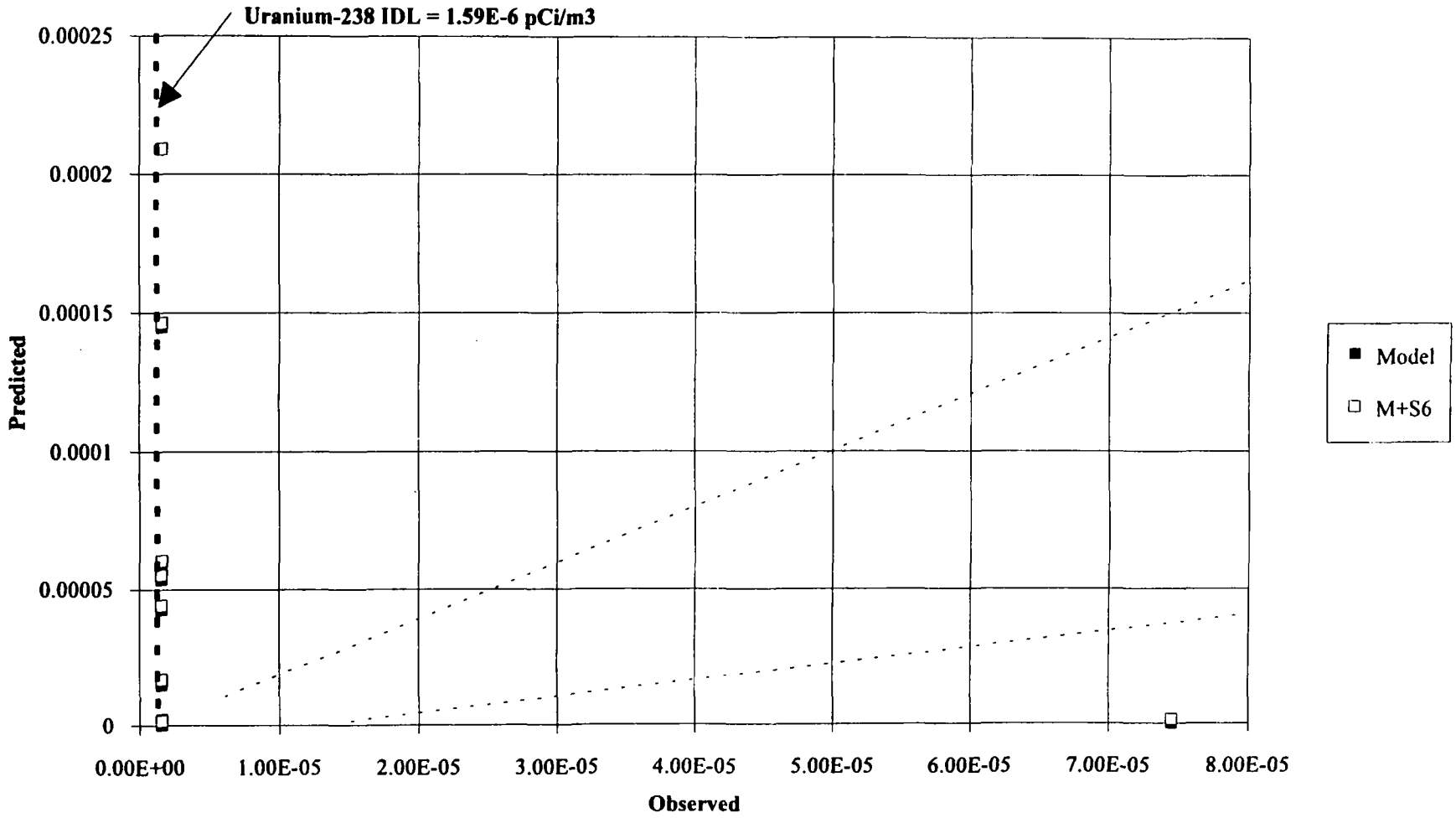
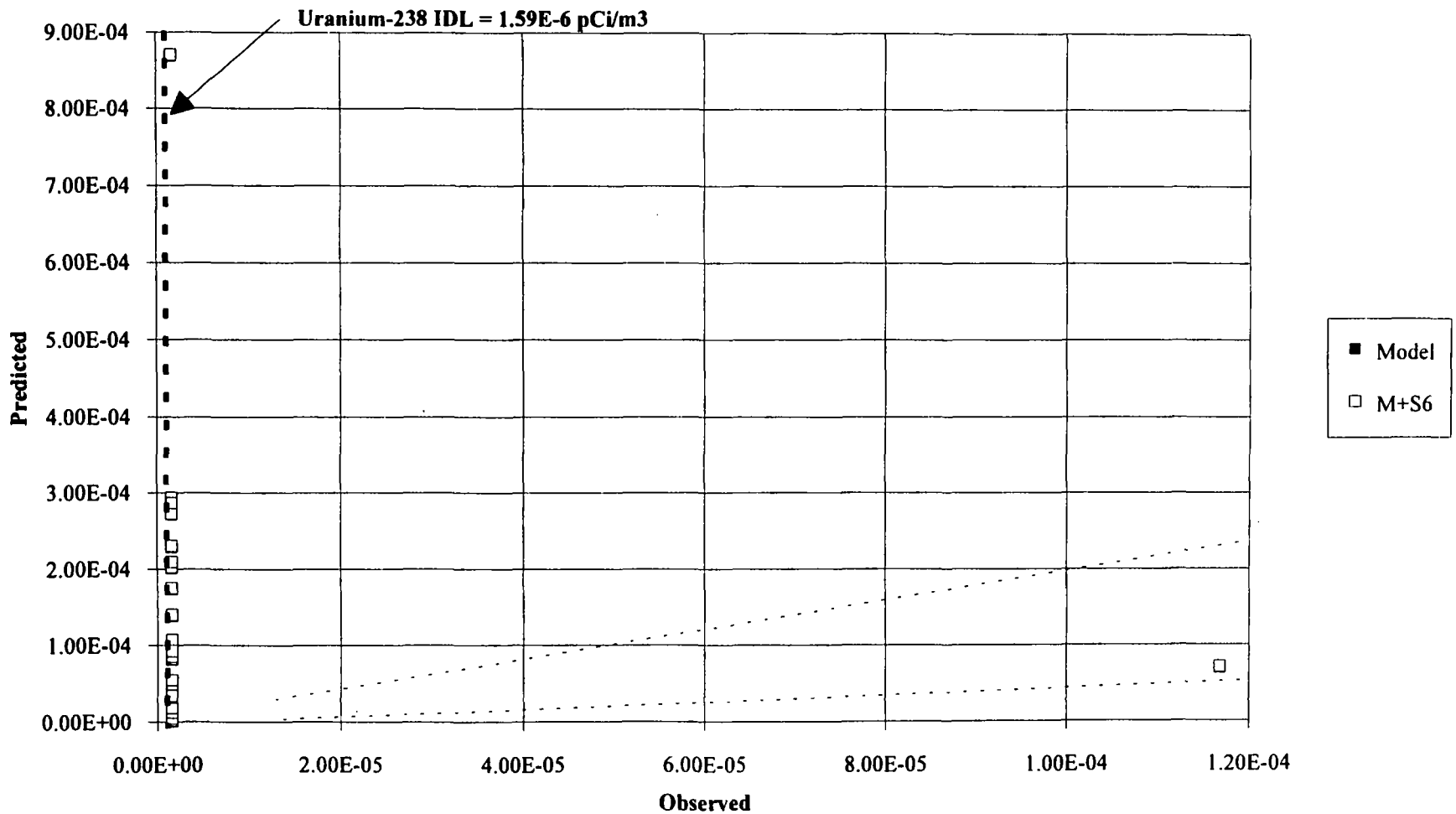


Figure AI-2-169
24-hour Uranium-238 for Site 7 Oct. 1, 1993 to September 30, 1994 (Paired Data, Upwind/Downwind Data)



Appendix AI-3

WVSCORE Results for Selected Constituents

Appendix AI-3

WVSCORE Results for Selected Constituents

WVSCORE Results for PM_{10} October 1993 to September 1994

PM10 Data

Data for Site 1

Comparison Scores for Data File: pm10.prn

08-11-1995 09:13:55

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	49.4	48.6	48.1	47.1	46.7
Mean of Observations	59.1	58.1	57.3	55.9	55.4
2*[P-O]/[P+O]	-0.17	-0.17	-0.17	-0.18	-0.18
S.D. of Predictions	6.6	6.2	5.9	5.0	4.6
S.D. of Observations	9.3	8.8	8.3	7.1	6.4
2*[P-O]/[P+O]	-0.31	-0.33	-0.34	-0.35	-0.36
RHC of Predictions	68.0	66.2	63.9	61.5	59.9
RHC of Observations	85.4	82.2	79.5	75.8	73.1
2*[P-O]/[P+O]	-0.21	-0.23	-0.24	-0.25	-0.26
FOR PAIRED DATA:					
Within a factor of two	65.3%	61.2%	58.2%	54.1%	51.0%
Slope: d[P]/d[0]	1.54	1.43	1.33	1.22	1.16
Correlation coeff. [r]	0.53	0.49	0.43	0.39	0.35
Determination coeff. [R^2]	-0.53	-0.83	-1.20	-1.58	-2.11
MRE = 2*rms<(P-O)/P+O)>	78.2%	74.1%	71.8%	69.3%	65.6%
wMRE= 2*rms<P-O>/rms<P+O>	88.6%	84.9%	82.3%	78.4%	75.8%
Robust MRE	68.2%	64.5%	61.0%	58.6%	55.0%

Data for Site 2

Comparison Scores for Data File: pm10.prn

08-11-1995 09:14:41

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	123.0	120.9	119.0	115.8	114.6
Mean of Observations	110.0	108.3	106.4	103.4	101.9
2*[P-O]/[P+O]	0.12	0.12	0.11	0.11	0.10
S.D. of Predictions	22.9	20.3	19.6	16.3	14.5
S.D. of Observations	21.2	19.5	18.7	15.6	14.4
2*[P-O]/[P+O]	0.14	0.11	0.05	-0.00	-0.04
RHC of Predictions	190.3	176.4	167.8	157.8	150.4
RHC of Observations	175.4	168.7	156.2	145.8	141.2
2*[P-O]/[P+O]	0.11	0.09	0.06	0.04	0.03
FOR PAIRED DATA:					
Within a factor of two	66.3%	63.3%	60.2%	55.1%	53.1%
Slope: d[P]/d[0]	1.11	1.03	0.96	0.90	0.85
Correlation coeff. [r]	0.50	0.46	0.40	0.36	0.31
Determination coeff. [R^2]	0.03	-0.07	-0.18	-0.36	-0.55
MRE = 2*rms<(P-O)/P+O)>	79.7%	76.6%	72.9%	70.1%	67.5%
wMRE= 2*rms<P-O>/rms<P+O>	87.9%	84.7%	79.4%	75.0%	71.7%
Robust MRE	67.5%	64.0%	59.7%	57.6%	55.9%

WVSCORE Results for PM_{10} October 1993 to September 1994

Data for Site 3

Comparison Scores for Data File: pm10.prn

08-11-1995 09:15:01

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	29.5	29.3	29.1	28.8	28.6
Mean of Observations	39.3	38.4	37.6	36.1	35.6
2*[P-O]/[P+O]	-0.22	-0.23	-0.26	-0.27	-0.29
S.D. of Predictions	2.2	2.1	2.0	1.7	1.6
S.D. of Observations	10.1	8.8	8.4	5.9	5.4
2*[P-O]/[P+O]	-1.07	-1.11	-1.23	-1.26	-1.29
RHC of Predictions	35.6	34.8	34.2	33.5	32.8
RHC of Observations	69.4	63.4	58.9	52.5	49.6
2*[P-O]/[P+O]	-0.50	-0.57	-0.72	-0.82	-0.93
FOR PAIRED DATA:					
Within a factor of two	76.5%	74.5%	71.4%	67.3%	65.3%
Slope: d[P]/d[O]	1.10	1.00	0.95	0.89	0.78
Correlation coeff. [r]	0.51	0.46	0.37	0.29	0.24
Determination coeff. [R^2]	-0.00	-0.12	-0.21	-0.30	-0.41
MRE = 2*rms<(P-O)/P+O)>	76.9%	73.9%	69.0%	66.1%	62.7%
wMRE= 2*rms<P-O>/rms<P+O>	93.4%	87.8%	80.7%	73.4%	68.8%
Robust MRE	61.5%	58.6%	53.1%	50.1%	47.3%

Data for Site 4

Comparison Scores for Data File: pm10.prn

08-11-1995 09:15:38

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	33.5	33.1	32.7	32.1	31.9
Mean of Observations	51.1	50.2	49.3	47.9	47.3
2*[P-O]/[P+O]	-0.39	-0.39	-0.41	-0.41	-0.42
S.D. of Predictions	4.5	3.9	3.7	2.6	2.4
S.D. of Observations	9.9	9.0	8.7	7.5	6.6
2*[P-O]/[P+O]	-0.69	-0.76	-0.80	-0.94	-0.99
RHC of Predictions	46.3	44.0	42.3	39.6	38.9
RHC of Observations	80.6	75.8	71.5	66.9	63.2
2*[P-O]/[P+O]	-0.59	-0.63	-0.69	-0.74	-0.81
FOR PAIRED DATA:					
Within a factor of two	66.3%	64.3%	60.2%	56.1%	53.1%
Slope: d[P]/d[O]	0.95	0.89	0.82	0.76	0.72
Correlation coeff. [r]	0.62	0.56	0.50	0.42	0.35
Determination coeff. [R^2]	0.28	0.19	0.09	-0.02	-0.11
MRE = 2*rms<(P-O)/P+O)>	83.6%	80.3%	76.9%	73.5%	70.8%
wMRE= 2*rms<P-O>/rms<P+O>	86.5%	79.8%	74.0%	69.6%	64.0%
Robust MRE	70.2%	66.5%	61.7%	59.0%	56.5%

WVSCORE Results for PM_{10} October 1993 to September 1994

Data for Site 5

Comparison Scores for Data File: pm10.prn

08-11-1995 09:16:03

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	35.5	34.6	33.9	32.7	32.1
Mean of Observations	48.1	46.5	45.2	42.9	41.9
2*[P-O]/[P+O]	-0.26	-0.27	-0.29	-0.30	-0.31
S.D. of Predictions	8.3	7.6	7.2	5.6	4.8
S.D. of Observations	16.7	14.9	14.2	11.3	9.5
2*[P-O]/[P+O]	-0.57	-0.62	-0.66	-0.68	-0.72
RHC of Predictions	60.6	56.7	53.4	49.3	46.1
RHC of Observations	103.8	91.7	84.2	76.4	69.0
2*[P-O]/[P+O]	-0.47	-0.51	-0.58	-0.66	-0.69
FOR PAIRED DATA:					
Within a factor of two	74.5%	71.4%	69.4%	65.3%	63.3%
Slope: d[P]/d[O]	1.09	1.03	0.97	0.93	0.87
Correlation coeff. [r]	0.54	0.47	0.38	0.30	0.20
Determination coeff. [R^2]	0.06	-0.06	-0.19	-0.35	-0.51
MRE = 2*rms<(P-O)/P+O)>	76.0%	74.0%	69.8%	65.8%	63.0%
wMRE= 2*rms<P-O>/rms<P+O>	86.4%	78.2%	74.4%	68.2%	63.9%
Robust MRE	66.3%	63.2%	57.7%	53.7%	50.6%

Data for Site 6

Comparison Scores for Data File: pm10.prn

08-11-1995 09:16:32

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	23.7	23.6	23.5	23.4	23.4
Mean of Observations	60.0	58.0	55.9	52.9	51.4
2*[P-O]/[P+O]	-0.75	-0.77	-0.82	-0.84	-0.87
S.D. of Predictions	0.7	0.7	0.7	0.6	0.6
S.D. of Observations	22.0	20.4	19.7	17.2	15.4
2*[P-O]/[P+O]	-1.85	-1.86	-1.87	-1.87	-1.88
RHC of Predictions	25.5	25.3	25.2	25.0	24.9
RHC of Observations	127.0	117.6	112.1	103.6	97.1
2*[P-O]/[P+O]	-2.86	-3.14	-3.39	-3.66	-3.98
FOR PAIRED DATA:					
Within a factor of two	50.0%	46.2%	38.5%	34.6%	30.8%
Slope: d[P]/d[O]	0.44	0.42	0.40	0.38	0.37
Correlation coeff. [r]	0.98	0.98	0.97	0.96	0.95
Determination coeff. [R^2]	-2.28	-2.48	-2.64	-3.15	-3.58
MRE = 2*rms<(P-O)/P+O)>	83.9%	81.7%	79.2%	75.2%	73.3%
wMRE= 2*rms<P-O>/rms<P+O>	96.8%	94.5%	91.7%	86.4%	83.6%
Robust MRE	85.1%	82.7%	80.2%	76.1%	74.1%

WVSCORE Results for PM_{10} October 1993 to September 1994

Data for Site 7

Comparison Scores for Data File: pm10.prn

08-11-1995 09:16:54

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	64.9	63.2	61.7	59.0	58.1
Mean of Observations	61.4	59.2	57.2	53.9	51.8
2*[P-O]/[P+O]	0.12	0.10	0.08	0.06	0.04
S.D. of Predictions	16.8	16.0	15.2	13.1	12.2
S.D. of Observations	26.2	23.3	22.1	18.6	15.4
2*[P-O]/[P+O]	-0.19	-0.28	-0.38	-0.43	-0.47
RHC of Predictions	115.7	111.9	106.5	98.1	92.3
RHC of Observations	145.9	127.5	115.6	100.6	86.2
2*[P-O]/[P+O]	0.09	0.03	-0.07	-0.17	-0.28
FOR PAIRED DATA:					
Within a factor of two	62.2%	60.2%	58.2%	54.1%	52.0%
Slope: d[P]/d[O]	1.53	1.43	1.33	1.24	1.18
Correlation coeff. [r]	0.55	0.50	0.44	0.39	0.36
Determination coeff. [R^2]	-0.64	-0.81	-1.16	-1.57	-1.85
MRE = 2*rms<(P-O)/P+O)>	78.4%	74.6%	71.7%	69.2%	67.0%
wMRE= 2*rms<P-O>/rms<P+O>	89.4%	85.8%	82.5%	78.2%	76.0%
Robust MRE	67.9%	64.1%	60.9%	58.9%	57.1%

WVSCORE Results for As October 1993 to March 1994

As Data

Note: the 0.0 values shown for the mean, S.D. and RHC values is a result of WVSCORE not being able to display exponential values.

Data for Site 1

Comparison Scores for Data File: as.prn

08-10-1995 16:34:32

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.19	0.17	0.12	0.09	0.06
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.38	-0.42	-0.54	-0.58	-0.63
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.12	-0.16	-0.23	-0.31	-0.38
FOR PAIRED DATA:					
Within a factor of two	78.8%	72.7%	69.7%	63.6%	57.6%
Slope: d[P]/d[O]	2.09	1.87	1.64	1.48	1.36
Correlation coeff. [r]	0.87	0.83	0.74	0.70	0.66
Determination coeff. [R^2]	0.36	-0.02	-0.71	-1.74	-2.82
MRE = 2*rms<(P-O)/P+O)>	75.8%	72.4%	66.2%	62.2%	56.6%
wMRE= 2*rms<P-O>/rms<P+O>	91.4%	82.7%	71.9%	58.2%	49.8%
Robust MRE	69.3%	65.1%	58.6%	55.6%	48.2%

Data for Site 2

Comparison Scores for Data File: as.prn

08-10-1995 16:35:25

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.64	0.63	0.60	0.59	0.58
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.43	0.39	0.29	0.26	0.22
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.40	0.39	0.36	0.33	0.31
FOR PAIRED DATA:					
Within a factor of two	72.7%	69.7%	63.6%	57.6%	54.5%
Slope: d[P]/d[O]	1.96	1.78	1.58	1.44	1.32
Correlation coeff. [r]	0.78	0.72	0.64	0.56	0.50
Determination coeff. [R^2]	0.12	-0.25	-0.74	-1.39	-2.66
MRE = 2*rms<(P-O)/P+O)>	86.8%	77.8%	72.9%	65.4%	61.9%
wMRE= 2*rms<P-O>/rms<P+O>	95.2%	89.2%	78.1%	70.5%	61.8%
Robust MRE	77.0%	68.1%	60.6%	54.7%	49.6%

WVSCORE Results for As October 1993 to March 1994

Data for Site 3

Comparison Scores for Data File: as.prn

08-10-1995 16:35:50

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.04	-0.10	-0.21	-0.27	-0.33
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-1.24	-1.27	-1.36	-1.39	-1.41
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.87	-1.04	-1.27	-1.61	-1.82
FOR PAIRED DATA:					
Within a factor of two	81.8%	78.8%	72.7%	66.7%	60.6%
Slope: d[P]/d[0]	1.98	1.82	1.47	1.32	1.15
Correlation coeff. [r]	0.95	0.91	0.80	0.78	0.73
Determination coeff. [R^2]	0.47	0.18	0.01	-0.65	-1.17
MRE = 2*rms<(P-O)/P+O)>	60.2%	56.9%	52.8%	48.5%	46.2%
wMRE= 2*rms<P-O>/rms<P+O>	77.7%	71.0%	65.0%	60.9%	53.6%
Robust MRE	56.2%	50.5%	45.1%	42.0%	39.0%

Data for Site 4

Comparison Scores for Data File: as.prn

08-10-1995 16:36:08

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.21	-0.25	-0.33	-0.37	-0.42
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-1.26	-1.29	-1.33	-1.35	-1.37
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-1.05	-1.15	-1.38	-1.56	-1.76
FOR PAIRED DATA:					
Within a factor of two	75.8%	72.7%	66.7%	60.6%	57.6%
Slope: d[P]/d[0]	1.55	1.44	1.37	1.28	1.23
Correlation coeff. [r]	0.95	0.93	0.89	0.87	0.83
Determination coeff. [R^2]	0.78	0.65	0.45	0.31	0.03
MRE = 2*rms<(P-O)/P+O)>	80.8%	73.8%	67.1%	59.7%	52.3%
wMRE= 2*rms<P-O>/rms<P+O>	60.0%	52.2%	47.2%	39.0%	33.5%
Robust MRE	69.2%	61.4%	50.8%	47.7%	43.0%

WVSCORE Results for As October 1993 to March 1994

Data for Site 5

Comparison Scores for Data File: as.prn

08-10-1995 16:36:33

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.10	-0.13	-0.19	-0.23	-0.26
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.65	-0.75	-0.82	-1.14	-1.16
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.69	-0.83	-0.96	-1.18	-1.26
FOR PAIRED DATA:					
Within a factor of two	72.7%	69.7%	69.7%	60.6%	54.5%
Slope: d[P]/d[O]	2.58	2.08	1.85	1.57	1.36
Correlation coeff. [r]	0.79	0.66	0.49	0.36	0.26
Determination coeff. [R^2]	-0.02	-1.12	-2.45	-3.90	-6.12
MRE = 2*rms<(P-O)/P+O)>	84.2%	79.3%	70.3%	64.0%	57.0%
wMRE= 2*rms<P-O>/rms<P+O>	125.3%	115.9%	101.7%	85.4%	67.9%
Robust MRE	72.8%	65.9%	52.7%	50.4%	44.7%

Data for Site 6

Comparison Scores for Data File: as.prn

08-10-1995 16:36:57

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.26	-0.32	-0.47	-0.54	-0.61
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-1.70	-1.72	-1.80	-1.82	-1.83
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-1.75	-1.88	-2.92	-3.27	-4.14
FOR PAIRED DATA:					
Within a factor of two	50.0%	46.2%	38.5%	30.8%	26.9%
Slope: d[P]/d[O]	0.63	0.60	0.46	0.44	0.39
Correlation coeff. [r]	0.90	0.86	0.82	0.83	0.81
Determination coeff. [R^2]	0.03	-0.03	-0.09	-0.17	-0.24
MRE = 2*rms<(P-O)/P+O)>	82.3%	80.1%	77.0%	73.4%	70.4%
wMRE= 2*rms<P-O>/rms<P+O>	114.5%	103.7%	101.2%	74.6%	71.5%
Robust MRE	81.7%	79.4%	76.1%	72.3%	69.2%

WVSCORE Results for As October 1993 to March 1994

Data for Site 7

Comparison Scores for Data File: as.prn

08-10-1995 16:37:29

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.77	0.75	0.72	0.70	0.67
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.43	0.41	0.38	0.35	0.30
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.52	0.50	0.48	0.46	0.44
FOR PAIRED DATA:					
Within a factor of two	78.8%	75.8%	69.7%	63.6%	57.6%
Slope: d[P]/d[O]	2.03	1.79	1.65	1.43	1.34
Correlation coeff. [r]	0.89	0.83	0.75	0.73	0.68
Determination coeff. [R^2]	0.43	0.13	-0.65	-1.48	-2.32
MRE = 2*rms<(P-O)/P+O)>	73.6%	70.2%	65.8%	59.1%	53.1%
wMRE= 2*rms<P-O>/rms<P+O>	88.5%	81.0%	72.6%	59.9%	50.9%
Robust MRE	67.6%	62.8%	58.1%	52.3%	45.0%

WVSCORE Results for Cd October 1993 to March 1994

Cd Data

Note: the 0.0 values shown for the mean, S.D. and RHC values is a result of WVSCORE not being able to display exponential values.

Data for Site 1

Comparison Scores for Data File: cd.prn

08-11-1995 07:37:42

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.76	0.73	0.69	0.66	0.64
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.53	0.50	0.41	0.38	0.35
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.44	0.41	0.38	0.36	0.34
FOR PAIRED DATA:					
Within a factor of two	40.0%	36.7%	30.0%	23.3%	20.0%
Slope: d[P]/d[O]	1.31	1.09	0.91	0.75	0.64
Correlation coeff. [r]	0.53	0.38	0.25	0.12	0.02
Determination coeff. [R^2]	-0.05	-0.28	-0.43	-0.75	-1.12
MRE = 2*rms<(P-O)/P+O)>	128.7%	122.3%	117.1%	109.3%	105.2%
wMRE= 2*rms<P-O>/rms<P+O>	147.5%	130.2%	116.2%	101.9%	94.8%
Robust MRE	119.3%	113.0%	105.2%	98.4%	93.9%

Data for Site 2

Comparison Scores for Data File: cd.prn

08-11-1995 07:38:22

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.32	0.28	0.23	0.20	0.17
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.18	-0.21	-0.34	-0.38	-0.42
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.1	0.1	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.02	-0.06	-0.10	-0.16	-0.23
FOR PAIRED DATA:					
Within a factor of two	40.0%	36.7%	30.0%	23.3%	20.0%
Slope: d[P]/d[O]	1.52	1.14	0.79	0.70	0.52
Correlation coeff. [r]	0.59	0.44	0.32	0.10	-0.03
Determination coeff. [R^2]	0.28	0.14	-0.06	-0.86	-1.64
MRE = 2*rms<(P-O)/P+O)>	134.8%	128.2%	122.0%	114.9%	108.1%
wMRE= 2*rms<P-O>/rms<P+O>	155.6%	137.8%	118.9%	108.2%	99.9%
Robust MRE	125.6%	118.0%	110.5%	102.8%	96.9%

WVSCORE Results for Cd October 1993 to March 1994

Data for Site 3

Comparison Scores for Data File: cd.prn

08-11-1995 07:38:47

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.38	0.37	0.35	0.32	0.30
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.77	0.76	0.73	0.72	0.70
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.44	0.43	0.42	0.40	0.39
FOR PAIRED DATA:					
Within a factor of two	53.3%	46.7%	40.0%	33.3%	26.7%
Slope: d[P]/d[O]	2.49	2.03	1.59	1.17	0.95
Correlation coeff. [r]	0.58	0.37	0.22	0.17	0.10
Determination coeff. [R^2]	-0.49	-1.08	-2.06	-3.34	-4.94
MRE = 2*rms<(P-O)/P+O)>	150.4%	142.9%	134.4%	125.6%	118.4%
wMRE= 2*rms<P-O>/rms<P+O>	147.9%	141.1%	132.4%	121.9%	109.3%
Robust MRE	143.9%	135.1%	125.0%	115.4%	105.5%

Data for Site 4

Comparison Scores for Data File: cd.prn

08-11-1995 07:39:16

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.56	0.53	0.47	0.44	0.39
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.45	1.28	0.42	0.36	0.21
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.63	0.59	0.45	0.37	0.26
FOR PAIRED DATA:					
Within a factor of two	43.3%	36.7%	30.0%	26.7%	20.0%
Slope: d[P]/d[O]	1.09	0.76	0.61	0.53	0.41
Correlation coeff. [r]	0.51	0.38	0.20	0.16	0.06
Determination coeff. [R^2]	0.19	0.04	-0.10	-0.22	-0.44
MRE = 2*rms<(P-O)/P+O)>	151.9%	143.6%	140.4%	132.8%	127.1%
wMRE= 2*rms<P-O>/rms<P+O>	145.4%	138.8%	127.3%	109.2%	93.5%
Robust MRE	145.6%	135.9%	132.1%	123.1%	116.3%

WVSCORE Results for Cd October 1993 to March 1994

Data for Site 5

Comparison Scores for Data File: cd.prn

08-11-1995 07:39:53

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.10	-0.14	-0.20	-0.31	-0.35
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.32	0.24	0.16	-0.18	-0.30
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.08	-0.01	-0.21	-0.44	-0.63
FOR PAIRED DATA:					
Within a factor of two	46.7%	40.0%	33.3%	26.7%	23.3%
Slope: d[P]/d[O]	3.20	2.47	1.82	1.37	1.08
Correlation coeff. [r]	0.89	0.82	0.67	0.66	0.58
Determination coeff. [R^2]	0.48	-0.15	-1.18	-3.39	-8.42
MRE = 2*rms<(P-O)/P+O)>	129.9%	124.4%	119.2%	111.5%	104.6%
wMRE= 2*rms<P-O>/rms<P+O>	118.5%	103.2%	93.4%	77.8%	63.6%
Robust MRE	121.1%	114.6%	108.2%	100.4%	91.1%

Note: there was insufficient data for evaluation of Site 6.

Data for Site 7

Comparison Scores for Data File: cd.prn

08-11-1995 07:40:41

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.53	1.49	1.32	1.29	1.17
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.65	1.38	0.52	0.37	0.22
RHC of Predictions	0.1	0.1	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.89	0.84	0.70	0.62	0.50
FOR PAIRED DATA:					
Within a factor of two	33.3%	30.0%	26.7%	16.7%	13.3%
Slope: d[P]/d[O]	1.29	1.12	0.97	0.86	0.70
Correlation coeff. [r]	0.83	0.76	0.61	0.51	0.24
Determination coeff. [R^2]	0.61	0.50	0.28	-0.03	-0.37
MRE = 2*rms<(P-O)/P+O)>	145.3%	138.7%	131.3%	123.9%	117.5%
wMRE= 2*rms<P-O>/rms<P+O>	116.8%	95.1%	80.1%	63.6%	58.8%
Robust MRE	137.8%	130.2%	121.3%	112.5%	105.1%

WVSCORE Results for Cr October 1993 to March 1994

Cr Data

Note: the 0.0 values shown for the mean, S.D. and RHC values is a result of WVSCORE not being able to display exponential values.

Data for Site 1

Comparison Scores for Data File: cr.prn

08-11-1995 08:15:04

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.19	1.07	0.93	0.90	0.82
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.91	0.09	-0.13	-0.21	-0.29
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.67	0.47	0.28	0.21	0.04
FOR PAIRED DATA:					
Within a factor of two	36.7%	33.3%	26.7%	23.3%	20.0%
Slope: d[P]/d[O]	1.82	1.41	1.12	0.92	0.71
Correlation coeff. [r]	0.62	0.48	0.30	0.09	-0.15
Determination coeff. [R^2]	0.29	-0.08	-0.58	-1.81	-3.31
MRE = 2*rms<(P-O)/P+O)>	155.2%	151.0%	145.2%	138.5%	132.0%
wMRE= 2*rms<P-O>/rms<P+O>	163.1%	142.4%	115.8%	101.3%	85.6%
Robust MRE	149.7%	144.8%	138.2%	130.4%	123.3%

Data for Site 2

Comparison Scores for Data File: cr.prn

08-11-1995 08:16:07

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.1	0.1	0.1	0.1	0.1
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.22	1.17	1.08	1.07	1.02
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.88	0.41	0.24	0.19	0.13
RHC of Predictions	0.2	0.2	0.2	0.2	0.2
RHC of Observations	0.1	0.1	0.1	0.1	0.1
2*[P-O]/[P+O]	0.68	0.59	0.49	0.43	0.36
FOR PAIRED DATA:					
Within a factor of two	36.7%	33.3%	26.7%	20.0%	20.0%
Slope: d[P]/d[O]	2.16	1.51	1.22	0.90	0.73
Correlation coeff. [r]	0.13	0.02	-0.03	-0.07	-0.10
Determination coeff. [R^2]	-0.57	-0.89	-1.51	-2.37	-3.98
MRE = 2*rms<(P-O)/P+O)>	149.4%	145.3%	140.7%	133.7%	129.2%
wMRE= 2*rms<P-O>/rms<P+O>	177.4%	173.4%	167.7%	163.0%	159.2%
Robust MRE	143.4%	138.9%	133.3%	124.9%	120.2%

WVSCORE Results for Cr October 1993 to March 1994

Data for Site 3

Comparison Scores for Data File: cr.prn

08-11-1995 08:16:32

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.12	1.09	1.04	1.00	0.97
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.65	0.62	0.61	0.57	0.53
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.62	0.61	0.59	0.58	0.55
FOR PAIRED DATA:					
Within a factor of two	40.0%	33.3%	26.7%	20.0%	13.3%
Slope: d[P]/d[0]	1.48	1.05	0.78	0.54	0.36
Correlation coeff. [r]	0.40	0.27	0.14	0.02	-0.16
Determination coeff. [R^2]	-0.13	-0.27	-0.37	-0.66	-1.23
MRE = 2*rms<(P-O)/P+O)>	161.6%	157.6%	147.8%	140.4%	133.1%
wMRE= 2*rms<P-O>/rms<P+O>	185.2%	165.3%	145.4%	130.6%	117.2%
Robust MRE	157.7%	152.8%	141.6%	132.9%	124.6%

Data for Site 4

Comparison Scores for Data File: cr.prn

08-11-1995 08:16:58

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.36	1.30	1.24	1.21	1.19
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.05	0.88	0.76	0.69	0.64
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.80	0.74	0.70	0.66	0.62
FOR PAIRED DATA:					
Within a factor of two	50.0%	43.3%	36.7%	30.0%	26.7%
Slope: d[P]/d[0]	3.78	2.75	1.30	0.87	0.55
Correlation coeff. [r]	0.74	0.61	0.39	0.38	0.35
Determination coeff. [R^2]	0.48	0.04	-0.69	-6.38	-12.36
MRE = 2*rms<(P-O)/P+O)>	143.4%	137.5%	130.4%	122.9%	116.8%
wMRE= 2*rms<P-O>/rms<P+O>	145.0%	134.4%	120.6%	105.3%	90.2%
Robust MRE	136.7%	129.9%	121.4%	113.1%	105.5%

WVSCORE Results for Cr October 1993 to March 1994

Data for Site 5

Comparison Scores for Data File: cr.prn

08-11-1995 08:17:53

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.03	0.98	0.42	0.37	0.10
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.85	0.77	-0.55	-0.58	-0.64
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.64	0.60	-0.00	-0.12	-0.43
FOR PAIRED DATA:					
Within a factor of two	26.7%	23.3%	16.7%	10.0%	10.0%
Slope: d[P]/d[O]	2.34	1.57	1.22	0.77	0.48
Correlation coeff. [r]	0.16	0.05	-0.01	-0.07	-0.11
Determination coeff. [R^2]	-0.23	-0.44	-1.57	-2.29	-5.58
MRE = 2*rms<(P-O)/P+O)>	153.7%	148.6%	142.3%	137.8%	131.7%
wMRE= 2*rms<P-O>/rms<P+O>	184.0%	182.1%	171.5%	163.4%	147.7%
Robust MRE	147.7%	142.3%	134.7%	130.2%	123.1%

Data for Site 6

Comparison Scores for Data File: cr.prn

08-11-1995 08:18:17

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.18	1.13	0.89	0.79	0.67
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.35	1.30	0.33	0.18	0.02
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.82	0.79	0.57	0.51	0.30
FOR PAIRED DATA:					
Within a factor of two	34.6%	30.8%	26.9%	23.1%	19.2%
Slope: d[P]/d[O]	4.26	4.11	1.75	1.52	1.35
Correlation coeff. [r]	0.94	0.87	0.62	0.64	0.59
Determination coeff. [R^2]	0.06	-0.35	-0.99	-27.34	-32.87
MRE = 2*rms<(P-O)/P+O)>	107.7%	103.9%	98.4%	93.9%	90.1%
wMRE= 2*rms<P-O>/rms<P+O>	129.6%	124.7%	96.3%	87.9%	78.4%
Robust MRE	104.4%	100.6%	94.3%	90.1%	85.9%

WVSCORE Results for Cr October 1993 to March 1994

Data for Site 7

Comparison Scores for Data File: cr.prn

08-11-1995 08:18:57

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.83	1.82	1.81	1.80	1.80
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.71	1.71	1.70	1.69	1.68
RHC of Predictions	0.1	0.1	0.1	0.1	0.1
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.94	0.94	0.94	0.93	0.93
FOR PAIRED DATA:					
Within a factor of two	30.0%	26.7%	23.3%	16.7%	13.3%
Slope: d[P]/d[O]	1.70	1.26	0.82	0.65	0.59
Correlation coeff. [r]	0.40	0.23	0.02	-0.03	-0.10
Determination coeff. [R^2]	-0.23	-0.42	-0.57	-1.12	-1.92
MRE = 2*rms<(P-O)/P+O)>	148.7%	144.3%	139.6%	130.5%	126.9%
wMRE= 2*rms<P-O>/rms<P+O>	177.5%	163.9%	155.8%	128.9%	113.6%
Robust MRE	143.0%	137.6%	131.8%	122.3%	117.7%

WVSCORE Results for Po-210 October 1993 to March 1994

Po-210 Data

Note: the 0.0 values shown for the mean, S.D. and RHC values is a result of WVSCORE not being able to display exponential values.

Data for Site 1

Comparison Scores for Data File: po.prn

08-11-1995 10:48:02

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.1	0.1	0.1	0.1	0.1
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.21	1.19	1.16	1.12	1.09
S.D. of Predictions	0.1	0.1	0.1	0.1	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.52	1.50	1.49	1.48	1.46
RHC of Predictions	0.3	0.3	0.3	0.2	0.2
RHC of Observations	0.1	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.84	0.84	0.83	0.82	0.81
Within a factor of two	51.4%	45.7%	40.0%	34.3%	31.4%
Slope: d[P]/d[O]	5.33	4.63	3.43	2.12	1.33
Correlation coeff. [r]	0.58	0.42	0.16	0.13	0.10
Determination coeff. [R^2]	-0.57	-3.74	-16.32	-30.16	-53.58
MRE = 2*rms<(P-O)/P+O)>	110.5%	105.0%	99.8%	95.4%	89.2%
wMRE= 2*rms<P-O>/rms<P+O>	177.0%	171.3%	165.8%	112.1%	95.5%
Robust MRE	102.5%	96.5%	89.0%	84.5%	78.7%

Data for Site 2

Comparison Scores for Data File: po.prn

08-11-1995 10:49:05

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.1	0.1	0.1	0.1	0.1
Mean of Observations	0.1	0.1	0.1	0.1	0.1
2*[P-O]/[P+O]	-0.37	-0.39	-0.41	-0.43	-0.45
S.D. of Predictions	0.1	0.1	0.1	0.0	0.0
S.D. of Observations	0.1	0.1	0.1	0.1	0.1
2*[P-O]/[P+O]	-0.35	-0.38	-0.41	-0.42	-0.46
RHC of Predictions	0.3	0.3	0.2	0.2	0.2
RHC of Observations	0.5	0.4	0.4	0.3	0.3
2*[P-O]/[P+O]	-0.42	-0.51	-0.57	-0.62	-0.68
FOR PAIRED DATA:					
Within a factor of two	45.7%	37.1%	34.3%	28.6%	22.9%
Slope: d[P]/d[O]	2.05	1.78	1.47	1.24	1.04
Correlation coeff. [r]	0.48	0.35	0.27	0.13	0.03
Determination coeff. [R^2]	-0.12	-0.88	-1.64	-3.17	-5.45
MRE = 2*rms<(P-O)/P+O)>	115.8%	111.0%	105.1%	100.5%	97.1%
wMRE= 2*rms<P-O>/rms<P+O>	137.6%	129.5%	114.6%	104.7%	89.3%
Robust MRE	109.9%	104.0%	97.3%	92.5%	89.3%

WVSCORE Results for Po-210 October 1993 to March 1994

Data for Site 3

Comparison Scores for Data File: po.prn

08-11-1995 10:49:41

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.68	0.67	0.66	0.64	0.64
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.78	0.76	0.73	0.67	0.64
RHC of Predictions	0.1	0.1	0.1	0.1	0.1
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.54	0.53	0.50	0.48	0.47
FOR PAIRED DATA:					
Within a factor of two	54.3%	48.6%	42.9%	37.1%	31.4%
Slope: d[P]/d[O]	1.27	0.93	0.76	0.56	0.33
Correlation coeff. [r]	0.52	0.38	0.23	0.09	0.05
Determination coeff. [R^2]	0.18	-0.16	-0.34	-0.64	-1.01
MRE = 2*rms<(P-O)/P+O)>	130.6%	123.6%	117.7%	111.6%	107.0%
wMRE= 2*rms<P-O>/rms<P+O>	164.1%	154.1%	133.9%	119.6%	105.2%
Robust MRE	123.0%	114.8%	107.9%	101.9%	96.1%

Data for Site 4

Comparison Scores for Data File: po.prn

08-11-1995 10:50:01

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.81	0.79	0.77	0.75	0.73
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.76	0.70	0.57	0.55	0.52
RHC of Predictions	0.1	0.1	0.1	0.1	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.49	0.47	0.43	0.39	0.37
FOR PAIRED DATA:					
Within a factor of two	62.9%	57.1%	51.4%	48.6%	42.9%
Slope: d[P]/d[O]	1.53	1.36	0.91	0.79	0.60
Correlation coeff. [r]	0.70	0.59	0.41	0.34	0.18
Determination coeff. [R^2]	0.24	0.15	-0.03	-0.38	-1.08
MRE = 2*rms<(P-O)/P+O)>	104.6%	96.3%	91.8%	84.0%	79.9%
wMRE= 2*rms<P-O>/rms<P+O>	129.1%	120.3%	103.6%	86.4%	77.6%
Robust MRE	98.3%	88.3%	82.9%	74.6%	69.2%

WVSCORE Results for Po-210 October 1993 to March 1994

Data for Site 5

Comparison Scores for Data File: po.prn

08-11-1995 10:50:23

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.04	-0.08	-0.11	-0.20	-0.26
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.28	0.25	0.19	-0.02	-0.08
RHC of Predictions	0.1	0.1	0.1	0.1	0.1
RHC of Observations	0.1	0.1	0.1	0.1	0.1
2*[P-O]/[P+O]	0.19	0.15	0.08	-0.02	-0.11
FOR PAIRED DATA:					
Within a factor of two	40.0%	37.1%	31.4%	28.6%	20.0%
Slope: d[P]/d[0]	0.75	0.65	0.55	0.48	0.40
Correlation coeff. [r]	0.42	0.31	0.14	-0.05	-0.15
Determination coeff. [R^2]	0.06	-0.06	-0.19	-0.28	-0.38
MRE = 2*rms<(P-O)/P+O)>	133.4%	127.6%	122.2%	115.8%	110.2%
wMRE= 2*rms<P-O>/rms<P+O>	152.8%	142.5%	128.5%	111.5%	101.4%
Robust MRE	127.0%	119.8%	113.7%	107.5%	101.9%

Data for Site 6

Comparison Scores for Data File: po.prn

08-11-1995 10:50:46

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.12	-0.16	-0.20	-0.23	-0.25
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.17	0.04	-0.19	-0.27	-0.33
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.11	0.03	-0.07	-0.18	-0.30
FOR PAIRED DATA:					
Within a factor of two	100.0%	100.0%	100.0%	100.0%	100.0%
Slope: d[P]/d[0]	0.94	0.90	0.82	0.79	0.75
Correlation coeff. [r]	0.97	0.96	0.90	0.89	0.88
Determination coeff. [R^2]	0.86	0.79	0.74	0.71	0.68
MRE = 2*rms<(P-O)/P+O)>	33.4%	32.3%	31.1%	29.1%	27.5%
wMRE= 2*rms<P-O>/rms<P+O>	40.0%	36.2%	33.0%	22.3%	20.4%
Robust MRE	33.7%	32.5%	31.3%	29.4%	27.6%

WVSCORE Results for Po-210 October 1993 to March 1994

Data for Site 7

Comparison Scores for Data File: po.prn

08-11-1995 10:51:06

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.3	0.3	0.3	0.3	0.2
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.68	1.68	1.66	1.65	1.64
S.D. of Predictions	0.2	0.2	0.2	0.2	0.1
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.71	1.69	1.60	1.57	1.53
RHC of Predictions	0.9	0.8	0.8	0.7	0.6
RHC of Observations	0.1	0.1	0.1	0.1	0.1
2*[P-O]/[P+O]	0.92	0.92	0.91	0.89	0.88
FOR PAIRED DATA:					
Within a factor of two	48.6%	42.9%	37.1%	31.4%	28.6%
Slope: d[P]/d[O]	0.99	0.80	0.34	0.26	0.21
Correlation coeff. [r]	0.55	0.34	0.12	0.03	-0.05
Determination coeff. [R^2]	0.22	0.03	-0.04	-0.10	-0.22
MRE = 2*rms<(P-O)/P+O)>	124.8%	120.3%	113.7%	108.7%	102.0%
wMRE= 2*rms<P-O>/rms<P+O>	183.4%	176.2%	165.3%	115.6%	87.4%
Robust MRE	116.6%	112.0%	103.1%	97.7%	89.7%

WVSCORE Results for U-238 October 1993 to March 1994

U-238 Data

Note: the 0.0 values shown for the mean, S.D. and RHC values is a result of WVSCORE not being able to display exponential values.

Data for Site 1

Comparison Scores for Data File: u8.prn

08-11-1995 10:55:33

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.64	0.62	0.44	0.43	0.29
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.48	0.44	-0.53	-0.64	-0.78
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.42	0.40	-0.01	-0.06	-0.43
FOR PAIRED DATA:					
Within a factor of two	37.9%	34.5%	27.6%	24.1%	20.7%
Slope: d[P]/d[0]	1.80	1.59	1.40	1.23	1.11
Correlation coeff. [r]	0.84	0.79	0.69	0.63	0.48
Determination coeff. [R^2]	0.57	0.23	-0.11	-0.71	-1.69
MRE = 2*rms<(P-O)/P+O)>	154.9%	150.0%	144.0%	136.0%	129.1%
wMRE= 2*rms<P-O>/rms<P+O>	106.1%	90.8%	78.3%	67.3%	54.1%
Robust MRE	153.1%	147.9%	141.6%	133.1%	125.9%

Data for Site 2

Comparison Scores for Data File: u8.prn

08-11-1995 10:55:51

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.31	0.30	0.19	0.17	0.09
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.08	-0.13	-0.76	-0.84	-0.97
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.15	0.12	-0.26	-0.33	-0.66
FOR PAIRED DATA:					
Within a factor of two	34.5%	31.0%	24.1%	17.2%	13.8%
Slope: d[P]/d[0]	1.76	1.40	1.15	0.96	0.78
Correlation coeff. [r]	0.46	0.37	0.28	0.21	0.15
Determination coeff. [R^2]	0.04	-0.10	-0.54	-1.19	-2.51
MRE = 2*rms<(P-O)/P+O)>	161.3%	157.0%	150.8%	142.4%	136.9%
wMRE= 2*rms<P-O>/rms<P+O>	132.6%	122.2%	111.5%	102.8%	97.1%
Robust MRE	159.7%	155.2%	148.8%	139.9%	134.1%

WVSCORE Results for U-238 October 1993 to March 1994

Data for Site 3

Comparison Scores for Data File: u8.prn

08-11-1995 10:56:06

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.46	1.39	1.19	1.12	1.00
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	-0.03	-0.07	-0.16	-0.18	-0.20
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.43	0.36	0.20	0.07	0.03
FOR PAIRED DATA:					
Within a factor of two	37.9%	31.0%	27.6%	20.7%	13.8%
Slope: d[P]/d[O]	1.43	1.28	1.06	0.90	0.73
Correlation coeff. [r]	0.78	0.60	0.44	0.30	0.20
Determination coeff. [R^2]	0.04	-0.09	-0.24	-0.46	-0.59
MRE = 2*rms<(P-O)/P+O)>	161.5%	152.3%	146.0%	138.6%	131.8%
wMRE= 2*rms<P-O>/rms<P+O>	124.1%	109.0%	94.4%	79.4%	69.6%
Robust MRE	159.9%	150.3%	143.7%	135.9%	128.8%

Data for Site 4

Comparison Scores for Data File: u8.prn

08-11-1995 10:56:25

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.56	1.50	1.34	1.27	1.16
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.13	0.08	-0.02	-0.05	-0.08
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.55	0.46	0.32	0.20	0.17
FOR PAIRED DATA:					
Within a factor of two	34.5%	31.0%	24.1%	20.7%	13.8%
Slope: d[P]/d[O]	1.73	1.38	1.06	0.83	0.67
Correlation coeff. [r]	0.21	0.13	0.02	-0.06	-0.12
Determination coeff. [R^2]	-0.39	-0.64	-1.13	-1.95	-3.05
MRE = 2*rms<(P-O)/P+O)>	163.9%	158.7%	154.1%	147.2%	141.8%
wMRE= 2*rms<P-O>/rms<P+O>	172.3%	164.2%	151.3%	138.7%	128.7%
Robust MRE	162.4%	157.1%	152.2%	145.0%	139.7%

WVSCORE Results for U-238 October 1993 to March 1994

Data for Site 5

Comparison Scores for Data File: u8.prn

08-11-1995 10:56:51

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.81	0.67	0.55	0.46	0.41
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.13	0.06	-0.01	-0.24	-0.28
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.16	0.07	-0.00	-0.12	-0.21
FOR PAIRED DATA:					
Within a factor of two	41.4%	34.5%	27.6%	24.1%	17.2%
Slope: d[P]/d[0]	3.62	2.82	1.94	0.68	0.39
Correlation coeff. [r]	0.30	0.19	0.08	-0.06	-0.17
Determination coeff. [R^2]	-0.41	-0.60	-4.48	-9.22	-16.25
MRE = 2*rms<(P-O)/P+O)>	174.1%	165.3%	159.4%	153.9%	146.0%
wMRE= 2*rms<P-O>/rms<P+O>	176.9%	168.3%	165.9%	161.6%	154.3%
Robust MRE	173.1%	163.9%	157.7%	152.2%	144.0%

Note: there was insufficient data for evaluation of Site 6.

Data for Site 7

Comparison Scores for Data File: u8.prn

08-11-1995 10:57:13

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	0.0	0.0	0.0	0.0	0.0
Mean of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.78	1.72	1.60	1.52	1.42
S.D. of Predictions	0.0	0.0	0.0	0.0	0.0
S.D. of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	1.51	1.44	1.31	1.25	1.15
RHC of Predictions	0.0	0.0	0.0	0.0	0.0
RHC of Observations	0.0	0.0	0.0	0.0	0.0
2*[P-O]/[P+O]	0.87	0.85	0.82	0.78	0.72
FOR PAIRED DATA:					
Within a factor of two	41.4%	37.9%	31.0%	24.1%	17.2%
Slope: d[P]/d[0]	2.41	1.82	1.19	0.92	0.59
Correlation coeff. [r]	0.34	0.16	0.03	-0.01	-0.11
Determination coeff. [R^2]	-0.44	-0.96	-1.41	-3.46	-5.01
MRE = 2*rms<(P-O)/P+O)>	165.4%	157.9%	150.3%	143.8%	138.4%
wMRE= 2*rms<P-O>/rms<P+O>	176.6%	167.8%	158.6%	148.6%	139.0%
Robust MRE	164.1%	156.2%	148.2%	141.5%	135.7%

WVSCORE Results for Total Fluorides October 1993 to April 1994

Total Fluoride Data

Data for Site 1

Comparison Scores for Data File: fl.prn

08-11-1995 11:04:23

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	3.1	3.0	3.0	2.9	2.9
Mean of Observations	6.3	5.9	5.6	5.1	4.9
2*[P-O]/[P+O]	-0.51	-0.55	-0.61	-0.64	-0.69
S.D. of Predictions	0.5	0.5	0.4	0.4	0.3
S.D. of Observations	3.4	3.2	3.0	2.6	2.5
2*[P-O]/[P+O]	-1.48	-1.49	-1.50	-1.51	-1.52
RHC of Predictions	4.4	4.3	4.1	4.0	3.9
RHC of Observations	15.1	14.2	13.1	12.3	11.7
2*[P-O]/[P+O]	-2.01	-2.07	-2.20	-2.35	-2.48
FOR PAIRED DATA:					
Within a factor of two	84.6%	80.8%	73.1%	69.2%	61.5%
Slope: d[P]/d[0]	0.59	0.55	0.50	0.47	0.45
Correlation coeff. [r]	0.85	0.79	0.67	0.59	0.47
Determination coeff. [R^2]	0.16	0.08	0.02	-0.08	-0.14
MRE = 2*rms<(P-O)/P+O)>	65.1%	61.1%	56.5%	51.3%	47.1%
wMRE= 2*rms<P-O>/rms<P+O>	90.8%	87.5%	83.7%	78.0%	71.4%
Robust MRE	64.6%	60.8%	54.9%	51.1%	45.6%

Data for Site 2

Comparison Scores for Data File: fl.prn

08-11-1995 11:04:50

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	5.1	5.1	5.0	4.9	4.8
Mean of Observations	5.6	5.4	5.2	4.9	4.8
2*[P-O]/[P+O]	0.02	-0.00	-0.04	-0.06	-0.09
S.D. of Predictions	0.7	0.7	0.6	0.6	0.6
S.D. of Observations	2.1	1.8	1.8	1.3	1.2
2*[P-O]/[P+O]	-0.68	-0.72	-0.94	-0.99	-1.05
RHC of Predictions	6.6	6.5	6.4	6.2	6.1
RHC of Observations	11.5	10.2	9.5	8.4	7.8
2*[P-O]/[P+O]	-0.26	-0.33	-0.49	-0.58	-0.73
FOR PAIRED DATA:					
Within a factor of two	88.5%	84.6%	76.9%	73.1%	65.4%
Slope: d[P]/d[0]	1.03	0.96	0.85	0.81	0.76
Correlation coeff. [r]	0.33	0.15	-0.01	-0.09	-0.20
Determination coeff. [R^2]	-0.01	-0.15	-0.36	-0.58	-0.80
MRE = 2*rms<(P-O)/P+O)>	66.1%	58.8%	55.1%	48.5%	43.9%
wMRE= 2*rms<P-O>/rms<P+O>	67.3%	62.6%	58.0%	48.3%	41.8%
Robust MRE	64.4%	57.2%	52.3%	45.7%	39.9%

WVSCORE Results for Total Fluorides October 1993 to April 1994

Note: Total fluorides can not be compared for Sites 3, 4, and 5 since no gaseous monitoring was conducted at these sites.

Data for Site 6

Comparison Scores for Data File: fl.prn

08-11-1995 11:05:21

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	1.7	1.7	1.7	1.7	1.7
Mean of Observations	1.9	1.9	1.8	1.8	1.8
2*[P-O]/[P+O]	-0.05	-0.06	-0.08	-0.08	-0.09
S.D. of Predictions	0.2	0.1	0.1	0.1	0.1
S.D. of Observations	0.4	0.3	0.3	0.2	0.2
2*[P-O]/[P+O]	-0.56	-0.62	-0.76	-0.81	-0.85
RHC of Predictions	2.2	2.2	2.1	2.1	2.1
RHC of Observations	2.9	2.7	2.6	2.4	2.3
2*[P-O]/[P+O]	-0.11	-0.14	-0.21	-0.26	-0.31
FOR PAIRED DATA:					
Within a factor of two	100.0%	100.0%	100.0%	100.0%	100.0%
Slope: d[P]/d[O]	0.94	0.94	0.92	0.91	0.90
Correlation coeff. [r]	0.93	0.92	0.90	0.89	0.88
Determination coeff. [R^2]	0.54	0.47	0.41	0.36	0.32
MRE = 2*rms<(P-O)/P+O)>	13.1%	11.9%	11.2%	9.3%	8.4%
wMRE= 2*rms<P-O>/rms<P+O>	15.7%	13.8%	13.1%	10.1%	8.8%
Robust MRE	13.3%	12.0%	11.3%	9.3%	8.4%

Data for Site 7

Comparison Scores for Data File: fl.prn

08-11-1995 11:05:42

NUMBER OF CASES = 26

	90%	75%	Mean	25%	10%
Mean of Predictions	6.0	5.6	5.3	4.7	4.5
Mean of Observations	4.9	4.7	4.5	4.1	4.0
2*[P-O]/[P+O]	0.23	0.20	0.18	0.13	0.09
S.D. of Predictions	4.3	3.8	3.5	2.3	1.6
S.D. of Observations	2.4	2.1	2.0	1.6	1.3
2*[P-O]/[P+O]	0.63	0.60	0.56	0.45	0.21
RHC of Predictions	18.7	15.8	13.8	10.8	9.0
RHC of Observations	12.8	11.0	9.8	8.6	7.4
2*[P-O]/[P+O]	0.37	0.35	0.29	0.22	0.16
FOR PAIRED DATA:					
Within a factor of two	80.8%	76.9%	69.2%	65.4%	57.7%
Slope: d[P]/d[O]	0.87	0.73	0.65	0.57	0.53
Correlation coeff. [r]	0.27	0.20	0.11	0.04	-0.02
Determination coeff. [R^2]	-0.08	-0.16	-0.25	-0.35	-0.46
MRE = 2*rms<(P-O)/P+O)>	85.5%	79.7%	71.5%	64.0%	57.0%
wMRE= 2*rms<P-O>/rms<P+O>	97.2%	92.9%	85.1%	76.8%	66.2%
Robust MRE	81.1%	74.5%	64.7%	57.9%	53.2%

Appendix AJ

Case Studies

AJ-1.0 PURPOSE

This appendix presents the results of the case study analyses conducted in support of the air dispersion modeling. The case studies were performed to evaluate the sensitivity of the emissions inventories and dispersion model to day-specific changes to the inventory, and as a method of evaluating the accuracy and representativeness of the model in addition to those described in Section 5 of Volume 2 of Part III.

The previous EMF atmospheric dispersion modeling study (Bechtel, 1994k, pages 1-4) indicated that detailed case studies would be developed and submitted to EPA to:

> *...compare particular plant emissions or activities with monitoring data or modeled estimates of air quality, to determine whether the sources identified as the most likely remedial action targets based on modeling analyses were actually responsible for elevated constituents on given days. Through case study analysis, it will be determined whether episodic activities or emissions, not included in the emissions inventories, were responsible for elevated constituent impacts. Episodic emissions might include emissions resulting from equipment malfunction or bypass, or non-EMF sources.*

Model-predicted concentrations (or activities) from the 1994 study (Bechtel, 1994k) were compared with monitoring data collected by the EMF air monitoring program to identify two types of situations:

(1) Days when model-predicted concentrations (or activities) were greater than monitoring results. Model predictions that routinely exceed monitored levels at near-field receptors may indicate:

- That the daily constituent emission rate for one (or more) source was overstated in the emission inventory;
- That the modeling results may have overpredicted ambient concentrations through an inadequate mathematical simulation, or;
- That certain sources assumed to be operating were in fact not operating or were operating at reduced levels.

(2) Days when model-predictions were less than monitoring results. Model predictions that were less than monitored levels at near-field receptors may indicate:

- There were contributions from emission sources not included in the inventory because:
  - The sources were not present within the EMF facilities (i.e., agricultural tilling);
  - The source emissions were episodic or unforeseen, such as emissions resulting from equipment malfunction or temporary bypass, and were not adequately represented in the inventory; or
  - The sources were not known to exist or were not adequately characterized.
- The source emissions were understated in the emissions inventory.
- There was an inadequate mathematical simulation of certain sources in the modeling code.

In selecting case study days for analysis, emphasis was placed on constituents that might have particular significance in evaluating human and ecological risk: arsenic, cadmium, chromium (total), polonium-210, and PM_{10}.

In addition, EPA and IDEQ requested that the period around January 20, 1994 be evaluated. IDEQ identified this period as a minor atmospheric stagnation episode, based on monitoring data recorded by its nephelometer, located in downtown Pocatello (IDEQ, 1994). The IDEQ expressed interest in gaining an understanding of how emissions from the EMF facilities might have influenced air quality during this episode. The IDEQ also requested that June 7, 1994, be evaluated as a case study. Operations at the EMF facilities were in a reduced mode on June 7, 1994 for routine maintenance.

Initially, the Companies discussed the completion of 9 case study days with the EPA (including the January 20 period and June 7). A preliminary review of the initial five case study results led to significant refinements of the base emissions inventory and an improvement in model performance. For this reason, it was felt that conducting the 4 remaining case studies would be of no further benefit for evaluating model performance. The 5 case studies initially undertaken were completed and are presented here.

The five case study events evaluated in this Appendix are:

(1) April 14, 1994

April 14 was selected for case study analysis because the highest PM_{10} concentration detected during the monitoring program (150.7 $\mu g/m^3$) at Site 2 was measured on this day. The model-predicted PM_{10} concentration at Site 2 in the September 1994 modeling study (Bechtel, 1994k) was 1.9 times less than the monitored concentration at Site 2, although within a factor of two of the observed value.

(2) October 24, 1993

The highest-monitored polonium-210 activity (0.35 pCi/m^3) was observed on this day at Site 2. Model-predicted activities of polonium-210 in the September 1994 modeling study (Bechtel, 1994k) were less than the monitored value by greater than a factor of 2.

(3) January 6, 1994

The highest monitored total chromium concentration (0.12 $\mu g/m^3$) was observed at Site 2 on this day. Model-predicted concentrations of total chromium in the September 1994 study (Bechtel, 1994k) were less than monitored values by greater than a factor of 2. Crushing of ferrophos was being conducted at BAPCO and was suspected as a possible source of the high total chromium concentrations. January 6 was selected as a case study day to examine the effect of adding ferrophos crushing to the inventory.

(4) June 7, 1994

The IDEQ requested that this day be evaluated. Operations at FMC and Simplot were reduced during routine plant maintenance.

(5) January 18-22, 1994 (Stagnation Period)

The period between January 18-22 was identified by the IDEQ as a minor atmosphere stagnation episode in Pocatello. A case study analysis for this period was conducted at the request of the

IDEQ. Gravimetric data were available for January 18, 20, and 22. Inorganic and radionuclide constituent data were available for January 20 only.

AJ-1.1 CASE STUDY METHODOLOGY

The first step in the case study analysis was to model air quality using the baseline emissions inventory with meteorological data collected at Site 1 on the case study day. The baseline inventory was that used to perform the full year of dispersion modeling reported in the September 1994 modeling study (Bechtel, 1994k). The development of the 1994 baseline inventory and subsequent refinements in the inventory reported in this 1995 study are described in detail in Section 3.1 of the air modeling section of this RI report. (The final emission inventories and modeling parameters presented in this 1995 report are referred to in this appendix as the "revised baseline inventory" or revised "base case".)

The next step was to adjust the emissions inventory based on meteorological and operating conditions at the facilities on the case study day. Emission factors used in the inventory were recalculated if the factor was based upon a wind speed or a precipitation adjustment factor that was not applicable to the meteorological conditions on the case study day. Detailed information regarding plant operation on the case study day was obtained from operating personnel. This information included data on processes that were not operating on that day, and material throughput for the major processes that were operating.

The inventories were then adjusted for each case study day (daily emissions only) in light of that day's meteorology and plant operating conditions and model runs were made a second time. In each case study, modeling was always performed using Site 1 meteorological data.

By comparing model predictions using the two inventories, the performance of the model under base case conditions could be evaluated against the day-specific inventory. In principle, the day-specific model predictions (including the addition of background constituent levels) should be within a factor of 2 of the monitoring results recorded for that day (this "factor of two" is the EPA's guideline for acceptable model performance). If the model predictions for the base case inventory were in good agreement with the modeled results using the case study inventory (and both sets of predictions were within a factor of two of monitoring results), it was concluded that the base case emissions inventories were representative of typical or average operations at the facilities and that model performance was satisfactory. If satisfactory performance was not

reached upon conclusion of the second model run, further evaluation of the inventories and modeling parameters was made. In some cases, this process identified data input errors or incorrect assumptions used in calculating emission factors (e.g., vehicle weights or number of vehicle trips). Appropriate changes were made in the inventory or modeling codes and a third model run was conducted, followed by comparisons of predictions with observed constituent levels. This process was iterated if necessary.

AJ-1.2 PRESENTATION OF RESULTS

A summary table was prepared for each case study day (e.g., Table AJ-1). Each table compared model-predicted concentrations (or activities) from the September 1994 modeling study, the revised baseline inventory, and the day-specific case study inventory, with monitored concentrations (or activities) at each site.

Monitored concentrations (or activities) at each site are shown in the second column under "Observed." The model-predicted concentration from the September 1994 modeling study is shown under column heading A for reference purposes only. The concentrations (or activities) predicted using the revised baseline inventories and case study inventories are shown under column headings B and C, respectively. For each set of model predictions, the background value observed at Site 6 (the background site) on the case study day was added to the model-predicted value, to enable an appropriate comparison with the monitoring data. The last column for each set of results indicates model performance.

Model performance "within 2" indicates that the ratio of the model-predicted value (plus background) to the monitored value was greater than 0.5 and less than 2.0. Model performance within a factor of 2 is considered satisfactory per EPA guidelines. Model performance greater than 2 (> 2) indicates model overprediction by greater than a factor of 2.0. Model performance less than 2 (< 2) indicates model underprediction by a factor of less than 0.5. If both the model and monitored value were observed to be below typical instrument detection limits, model and monitored results were judged to agree and are noted by "agree @ IDL" in the performance column.

In cases where the monitored value of a constituent was a nondetect, the instrument detection limit (IDL) is shown in the "Observed" column. IDLs in Tables AJ-1, AJ-2, AJ-3, AJ-4, and AJ-5 are indicated by a less than (<) sign preceding the number.

On days for which the constituent concentration (or activity) observed at Site 6 was a nondetect, no background value was added to the model-predicted concentration (or activity). It should be noted that the results currently shown in the summary tables for the September 1994 modeling results include a different background value than the one reported in the September 1994 report (Bechtel, 1994k). In that report, the 95% upper confidence level (UCL) of the geometric mean of all samples collected at Site 6 when it was predominantly upwind from the EMF facilities was added as background to the modeling results. The background levels used in Tables AJ-1, AJ-2, AJ-3, AJ-4, and AJ-5 are specific to the case study day. Therefore, the results shown in these tables for this report's September 1994 modeling are not directly comparable with the model predictions (that included background contributions) that were published in the September 1994 report.

Monitored concentrations and model-predicted values for the base case and case study inventories were also plotted on 3-D bar graph plots for the major constituents of interest. These plots present a graphical comparison of the case study results. Monitored concentrations (or activities) at each site are plotted on the X-axis, alongside base case and case study model-predicted values. Modeled values shown in the plots include the background concentration (or activity) observed at Site 6 on the case study day.

The sections AJ-1.2.1 through AJ-1.2.5 describe the results of each case study evaluation. General conclusions are presented in section AJ-1.2.6

AJ-1.2.1 APRIL 14, 1994 CASE SETTING

Meteorology

A summary of meteorological data for April 14 at Sites 1 and 7 is presented in Table AJ-7. Wind roses for Sites 1 and 7 are provided in Figures AJ-1 and AJ-2. Winds recorded at Site 1 on April 14 were entirely from the southwest quadrant, placing Site 2 immediately downwind of EMF sources. The average wind speed on April 14 was in excess of 20 mph, with occasional gusts up

to 30 mph. Hourly average wind speeds recorded at Site 1 were 14 mph or greater. Wind patterns at Site 7 were very similar. There was no precipitation on April 14.

Monitoring Data Overview

PM_{10} concentrations at all sites on April 14 are plotted in Figure AJ-3. The highest value occurred at Site 2 (150.7 $\mu g/m^3$), with the next highest concentration at Site 1 (53.1 $\mu g/m^3$). Monitored values for individual constituents detected on April 14 are provided in Table AJ-1.

The total phosphorus concentration detected in the Site 2 PM_{10} sample on April 14 was 16.2 $\mu g/m^3$, which was in the upper range of the concentrations observed at Site 2 between October 1993 and March 1994. However, this concentration was less than the maximum (26.8 $\mu g/m^3$), which was detected at Site 2 on March 17, 1994.

Polonium-210 was also elevated in the Site 2 PM_{10} sample (0.10 pCi/m^3), but was less than the maximum (0.35 pCi/m^3), which was observed at Site 2 during October 1993.

Operating Conditions on April 14

FMC Facility

- Ore receiving, coke unloading, and silica hauling did not occur on April 14.
- Twenty-six loads of calciner fines were hauled to the north shale berm on this day. These fines were loaded onto haul units by front end loader at the calciner fines stockpile. Calciner fines were hauled in 50-ton haul units and placed along the inside shale pile berm. This occurred over approximately 4 hours.

J. R. Simplot Plant

- No known upsets or unusual conditions occurred on April 14 at the Simplot facility.

BAPCO

- No information related to activities at BAPCO was available for April 14.

Other Conditions

No unusual activities were noted in log books maintained by the EMF air pathways monitoring program field technicians on the April 14 case study day.

Adjustments to Inventories for April 14 Case Study

FMC Facility

- Emissions from ore receiving, coke unloading, and silica hauling were set at zero, since these activities did not occur on April 14.
- Emission factors for calculating wind erosion from stockpiles were modified three ways:
  - The mean number of days for precipitation was set at zero since no precipitation occurred on April 14.
  - The mean wind speed used to calculate wind erosion from the stockpiles was raised to 20 mph from 10 mph, since the daily average wind speed at Site 1 on April 14 was 20.3 mph. Most hourly averages throughout the day were near or above 20 mph.
  - The percentage of time that stockpiles were subjected to wind speeds > 12 mph at the mean pile height was raised to 100% from 29%, since each hourly average wind speed value on April 14 was > 12 mph.
- All emission factors for unpaved roads were recalculated with the number of precipitation days set at zero.
- Calciner fines handling emissions were revised to reflect 1,300 tons of material handled at the fines stockpile. These emissions were accounted for in the area source total for the calciner fines stockpile.
- Non-routine calciner fines recycling was added to the inventory as a batch loadout operation using the tonnage of material handled. These emissions were accounted for and modeled as area emissions at the main shale stockpiles.
- Emission factors for ore reclaiming were recalculated as a batch operation to reflect ore reclaiming by FEL instead of the wheel reclaimer.
- Emission factors for material transfer processes were recalculated using a daily average wind speed of 20 mph.

- Emission factors for the calciners were recalculated based on the operating mode on that day.
- Assumed control efficiencies of 50% (latex spray on ore pile) were set at zero for ore reclaiming, since the ore pile was nearly depleted and the effectiveness of the spray was likely to be diminished.
- Vehicle traffic associated with hauling the calciner fines to the north shale pile were added into the appropriate paved and unpaved roads (Roads 23, 24, and 18).

Simplot Plant

- The emission factors for unpaved roads were recalculated by setting the mean number of days having precipitation to zero, since no precipitation occurred on April 14.

BAPCO

- Detailed information regarding activates at BAPCO on April 14 were not available for this study; therefore, no revisions were made to the emissions inventory for BAPCO.

Adjustments to Model for Case Study Day (April 14, 1994)

Point source stack parameters at FMC (stack temperature, exit velocity, etc.) were adjusted for actual operating conditions on the case study day.

Case Study Results

Modeling results for the April 14 case study day are summarized in Table AJ-1. Three-dimensional bar graphs for PM_{10}, total phosphorus, and uranium-238 are presented in Figures AJ-4 through AJ-7.

Modeled versus monitored results for PM_{10} on April 14 were all within a factor of 2 for the base case inventory (Figure AJ-4). However, the monitored value at Site 2 was almost 2.0 times greater than the model-predicted concentration at Site 2 for the base case inventory. Following adjustments to the inventory in the case study model run, the monitored PM_{10} concentration at Site 2 was greater than the model-predicted value by a factor of 1.2, an indication of improved model

performance. Model performance at Sites 1, 3, 4, and 7 did not change significantly (Figure AJ-4). Results for the base case and case study confirmation were both within a factor of 2 of observed levels.

Results for modeled total phosphorus improved with the case study inventory, but still remained underpredicted by greater than a factor of 2 at Sites 1 and 2 (Figure AJ-5). Model-predicted values for total phosphorus were within a factor of two at Sites 3, 4, 5, and 7 for both the base case and case study confirmation (Table AJ-1).

Comparisons of model predictions for the base case and case study runs with the observed activity of polonium-210 are plotted in Figure AJ-6. Polonium-210 was overpredicted by approximately a factor of four at Sites 1 and 2, with no significant improvement for the case study run. Uranium-238 was underpredicted by a factor of 0.6 at Site 2 for the base case, and overpredicted by a factor of 1.5 at Site 2 for the case study model run.

Conclusion

The most significant change between the base case and the April 14-specific inventories was the addition of calciner fines recycling at the shale storage piles. It is believed that this activity, in combination with high wind speeds (>20 mph), contributed significantly to the measured PM_{10} concentration at Site 2. This was confirmed with the model results for the case study day — model performance for PM_{10} improved from underprediction by a factor 2 to within a factor of approximately 1.2. The addition of calciner fines recycling at the main shale piles improved model performance for PM_{10}, yet did not cause an imbalance or significant change in model performance for other constituents (i.e. total phosphorus, polonium-210).

Calciner fines recycling at the shale storage piles was not added to the annual baseline inventory since this activity is not a routine occurrence. Calciner fines are normally recycled into the crushing process and are not typically deposited at the base of the shale piles. This activity was conducted by FMC on a test basis only and is not planned to be repeated.

The April 14 case study was the first case study evaluated and led to significant refinements to the baseline emissions inventories. The addition of calciner fines recycling initially showed only marginal improvement in model performance, increasing the model-predicted PM_{10} concentration at Site 2 by only several $\mu g/m^3$. During the case study process, refinements of the baseline inventory in other areas were made, including: revisions to vehicle weights used to calculate road particulate emissions; redistribution of total vehicle miles traveled; correction in the methodology used to calculate the percentage of silt in road dust; and recalculation of the silt content of the oversized ore pile (that contained disposed baghouse fines). Each of these refinements is described in greater detail in Section 3.1.1 of Part III, Volume 2 of the RI report.

AJ-1.2.2 October 24, 1993 Case Study

The highest monitored polonium-210 activity was observed on this day. The model-predicted activity of polonium-210 in the September 1994 modeling study was less than the monitored value at Site 2 by a factor of 3.5. This day was selected for a case study analysis to evaluate model underprediction of polonium-210.

Meteorology

A summary of meteorological data for October 24 at Sites 1 and 7 is presented in Table AJ-8. Wind roses for Sites 1 and 7 are provided in Figures AJ-8 and AJ-9. Winds recorded at Site 1 on October 24 were mostly from the southwest, with moderate wind speeds in the morning hours, increasing to 10-20 mph in the afternoon. Wind patterns at Site 7 were similar. There was no precipitation on October 24.

Monitoring Data Overview

On October 24, 1993 the highest polonium-210 activity (0.35 pCi/m^3) measured between October 1993 to March 1994 was observed at Site 2. Cadmium was also elevated at Site 2 (0.036

$\mu g/m^3$), but was below the upper range of cadmium concentrations measured at this site during the monitoring program.

The PM_{10} concentration at Site 2 was 107 $\mu g/m^3$, which was the highest-measured value during October 1993. Site 1 also had an elevated PM_{10} concentration (48 $\mu g/m^3$), while the community sites (Sites 3, 4, 5, and 6) had PM_{10} concentrations similar to other days during the month. Total fluoride concentrations at all sites were 4 $\mu g/m^3$ or less.

Operating Conditions October 24, 1993

FMC Facility

- Furnace # 3 was not operating.
- Calciner #1 was operating in a 1-lung mode; calciner #2, in a 2-lung mode.
- Ore stockpiling was not occurring.
- No silica hauling and no fines reclaiming occurred on October 24.
- No PRV or CO flare releases were noted in shutdown/bypass reports.

J.R. Simplot Plant

- Simplot was operating in a normal mode for all processes.

Adjustments to Inventories for October 24

FMC Facility

- Emissions from all 4 PRVs, the 4 furnace CO flares, and furnace #3 were set at zero.
- Emissions for ore receiving and silica stockpiling were set at zero.
- Coke unloading emissions were recalculated based on the tonnage of material and hours of operation.
- Fugitives associated with the briquetting building and calciner processes were recalculated based on the tonnage of material handled on that day.

- Emission factors for the calciners were recalculated based on the operating mode on that day.

Simplot Plant

- No known upsets or unusual conditions occurred on October 24 at the Simplot facility.

BAPCO

- Detailed information regarding activities at BAPCO was not available for October 24; therefore, no revisions were made to the emissions inventory for BAPCO.

Adjustments to Model for Case Study Day (October 24, 1993)

Point source stack parameters at FMC (stack temperature, exit velocity, etc.) were adjusted for actual operating conditions on the case study day.

Case Study Results

A summary of case study results for October 24 are presented in Table AJ-2. Bar graph plots for PM_{10}, and polonium-210 are presented in Figures AJ-10 and AJ-11.

A plot of base case inventory and case study results versus monitored PM_{10} data is shown in Figure AJ-10. There was no significant change in model performance for PM_{10} on the case study day. The model-predicted PM_{10} concentration at Site 1 was 27.5 $\mu g/m^3$ for the base case and 27.3 $\mu g/m^3$ for the case study; both values are within a factor of two of the observed concentration of 48.0 $\mu g/m^3$. At Site 2, the model-predicted concentration for the base case was 83.3 $\mu g/m^3$ and 87.4 $\mu g/m^3$ for the case study, compared to an observed concentration of 106.8 $\mu g/m^3$. Minor changes in model-predicted concentrations were also observed at the community sites. At Site 4, the base case modeled PM_{10} concentration was 20.5 $\mu g/m^3$, and 20.8 $\mu g/m^3$ for the case study. Both values are within a factor of two of the observed concentration of 17.6 $\mu g/m^3$. Model-predicted concentrations for the base case and case study PM_{10} model runs were within several $\mu g/m^3$ of the values predicted in the September 1994 modeling study for all sites (Table AJ-2).

The case study evaluation for polonium-210 led to significant improvements in the modeling parameters associated with polonium-210 emissions. The model-predicted activity of polonium-210 was 0.045 pCi/m^3 at Site 2 in the September 1994 modeling study (Table AJ-2), well below the observed activity of 0.35 pCi/m^3. This represented a model underprediction by a factor of 7.8. It was determined during the case study analysis that the exit velocities of the FMC calciner scrubber stacks, the primary source of polonium-210, were overestimated in the September 1994 inventory. Recalculation of the stack exit velocities resulted in an improvement in the model performance of polonium-210 to within a factor of 2, for both the base case and case study model runs (Figure AJ-11).

Conclusion

October 24, 1993 was selected for case study analysis to evaluate factors that may have contributed to the underprediction of polonium-210. Evaluation of this case study lead to refinements in the baseline emission inventory for the FMC calciner stack parameters. The results of the baseline and case study model runs using the revised parameters showed that model performance was satisfactory, and that other adjustments to the inventories for day-specific emissions were not significant.

AJ-1.2.3 JANUARY 6, 1994 CASE STUDY

The highest-monitored total chromium concentration (0.12 μg/m^3 at Site 2) was observed on this day. Crushing of ferrophos was being conducted at BAPCO and was suspected as a potential source contributing toward the chromium values. Although model performance for total chromium was satisfactory (i.e., within a factor of 2) for the September 1994 modeling study (Table AJ-3), this day was selected for a case study to evaluate the sensitivity of the model to addition of a previously undefined source. Ferrophos crushing at BAPCO was added to the case study inventory in place of slag crushing. Ferrophos was crushed using equipment normally used to crush slag; therefore, concurrent emissions from both sources was not possible.

Meteorology

A summary of meteorological data for January 6 at Sites 1 and 7 is presented in Table AJ-9. Wind roses for Sites 1 and 7 are provided in Figures AJ-12 and AJ-13. Winds recorded at Site 1 on January 6 were entirely from the south-southwest, with high wind speeds most of the day. The 24-hour average wind speed for the day was 20 mph. Wind patterns were nearly identical at Site 7 on this day (Figures AJ-12 and AJ-13). There was a trace of precipitation with a trace of ice/snow reportedly covering the ground at the Pocatello airport.

Monitoring Data Overview

The total chromium concentration in the PM_{10}-sized fraction at Site 2 was approximately 0.12 $\mu g/m^3$. PM_{10} cadmium was also elevated at Site 2 at 0.03 $\mu g/m^3$, which was in the upper range of cadmium values measured during the monitoring program. PM_{10} concentrations at Sites 1 and 2 (45.5 $\mu g/m^3$ and 92.8 $\mu g/m^3$, respectively) were the second highest monitored concentrations observed during January. The other monitoring sites had PM_{10} concentrations similar to other levels detected at these site on other days during January.

Operating Conditions on January 6

FMC Facility

- Furnace # 1 was not in operation.
- Calciner #1 was operating in a 1-lung mode; calciner #2, in a 2-lung mode.
- Ore stockpiling was not occurring.
- No silica hauling and no fines reclaiming occurred on January 6.
- No PRV or CO flare releases were noted in shutdown/bypass reports.

J.R. Simplot Plant

- Simplot operating in normal mode for all processes.

Adjustments to Inventories for January 6 Case Study

FMC Facility

- Emissions from all 4 PRVs, the 4 furnace CO flares, and furnace #1 were set at zero.
- Emission factors for wind erosion from stockpiles were recalculated using an average wind speed of 20 mph. The exposure period of piles to wind speeds above 12 mph was set at 100%.
- Emissions for ore receiving and silica stockpiling were set at zero.
- Coke unloading emissions were recalculated based on the tonnage of material handled and the hours of operation.
- Fugitives associated with briquetting building and calciner processes were recalculated based on the tonnage of material handled on that day.
- Emission factors for the calciners were recalculated based on the operating mode on that day.

Simplot Plant

- No changes were made.

BAPCO

- Ferrophos was reported to have been crushed at BAPCO on January 6. Emissions for this activity were added to the BAPCO emissions inventory from the crusher normally used to crush slag at this location. According to information supplied by FMC, ferrophos was crushed for 4.5 hours on January 6. The tonnage of material crushed was not available, so it was assumed that the crushers processed 2/3 of the amount of slag listed in the baseline inventory.
- Metals emissions for ferrophos crushing were added to the BAPCO inventory.
- Slag crushing was removed from the inventory.
- It was assumed that asphalt batching did not occur on this day (due to winter conditions). Emissions from asphalt batching were set at zero.

Adjustments to Model for Case Study Day (January 6, 1994)

Point source stack parameters at FMC (stack temperature, exit velocity, etc.) were adjusted for the operating conditions on the case study day.

Case Study Results

Modeling results for the January 6 case study day are summarized in Table AJ-3. Three-dimensional bar graphs for PM_{10}, total chromium, and nickel are presented in Figures AJ-14 through AJ-16.

PM_{10} concentrations predicted for the revised baseline and case study model runs versus monitored values at each site are plotted in Figure AJ-14. There was no significant change in the model performance of PM_{10} between the base case and case study model runs. Model results for the base case and case study were also similar to the results of the September 1994 modeling study (Table AJ-3).

Model-predicted total chromium values for the base case and the case study model runs are presented in Figure AJ-15. Model-predicted concentrations of total chromium went from under-prediction by a factor of 0.7 at both Sites 1 and 2, to overprediction by a factor of 1.5 at these same sites (Table AJ-3). A possible explanation for the overprediction for the case study model run was that the exact tonnage of ferrophos crushed on January 6 was not known, only the hours that this activity occurred (4.5 hours). The assumption made regarding the tonnage processed may have overestimated the total chromium emission for the case study model run.

Nickel, which is also present in ferrophos at elevated concentrations, went from underprediction at Site 2 by a factor of 0.7 to overprediction at Site 2 by a factor of 1.4 (Figure AJ-16).

Conclusion

January 6 was selected for case study analysis to evaluate whether an additional, previously unmodeled activity might have contributed to the observed levels of total chromium. The results

of the case study showed that the addition of ferrophos crushing at BAPCO influenced model-predicted concentrations. However, the actual amount of ferrophos crushed was uncertain.

Ferrophos crushing was not added to the annual emissions inventory due to uncertainties in process rates. This activity no longer occurs at the BAPCO facility; BAPCO ended operations at this site in March, 1995.

AJ-1.2.4 JUNE 7, 1994

The IDEQ requested that this day be evaluated. Operations at FMC and Simplot were reduced during routine plant maintenance.

Meteorology

A summary of meteorological data for June 7 at Sites 1 and 7 is presented in Table AJ-8. Wind roses for Sites 1 and 7 are provided in Figures AJ-17 and AJ-18. Winds at Site 1 on June 7 were from the south to southwest during most of the day, with moderate wind speeds around 13 mph. Wind patterns were similar at Site 7. Three-hundredths (0.03) of an inch of precipitation and at least one hail storm during the day were recorded at the Pocatello airport.

Monitoring Data Overview

June 7 was the lowest monitored PM_{10} day during the month of June. PM_{10} concentrations were 19 $\mu g/m^3$ or less at all seven sites. Concentrations or activities for inorganics and radionuclides were at the low end of the range detected across all seven sites, and were nondetects in most instances.

Operating Conditions on June 7

FMC Facility

- Ore stockpiling and silica hauling were the only industrial activities taking place at FMC. All other process activities were not operational on June 7.

J.R. Simplot Plant

- Operational time for granulation 1 was 7 hours. Other granulation process operation times were 23 hours or more.
- The #3 and #4 sulfuric acid plants, the phos acid plant, and the liquid plant were non-operational.

Adjustments to Inventories for June 7 Case Study

FMC Facility

- Point and fugitive emissions from process sources were set at zero.
- Emission factors for wind erosion from stockpiles were recalculated using a peak wind speed of 18 mph.
- The tonnage and hours of operation for ore receiving and silica receiving were added to the inventory.
- Emissions from slag excavation and dumping were set at zero.
- A 50%-control efficiency was added to road dust emissions and uncontrolled stockpile emissions, since there was 0.03 inches of precipitation on June 7.
- Medium and heavy vehicle classes were eliminated from road emission calculations.

Simplot Plant

- Operational time for granulation 1 was set at 7 hours.
- Emissions from the previously listed sources were set to zero.

BAPCO

- Detailed information regarding activities at BAPCO were not available for June 7; therefore, no revisions were made to the emissions inventory for BAPCO.

Adjustments to Model for Case Study Day (June 7, 1994)

No adjustment were made to FMC stack parameters since point sources at FMC were not operating on the case study day.

Case Study Results

Modeling results for the June 7 case study day are summarized in Table AJ-4. Three-dimensional bar graphs for PM_{10}, polonium-210, particulate fluorides, and U-238 are presented in Figures AJ-19 through AJ-22. Gaseous fluoride sampling had been discontinued (as approved by EPA) at the end of April, 1994. Consequently, total fluoride levels are not available in the monitoring records.

PM_{10} results for the base case and the case study model runs are plotted against monitored concentrations in Figure AJ-19. As can be seen in the graph, model performance for PM_{10} improved from overprediction at the near-field receptors (Sites 1 and 2) for the base case, to within a factor of 2 for the case study model run. This was an indication that the model was operating appropriately, since predicted PM_{10} concentrations at near-field receptors in the base case inventory assumed operational point sources. A similar pattern was observed for polonium-210 (Figure AJ-20). The point source emission for polonium-210 (FMC calciners) was set at zero in the case study model run.

Model performance at Site 2 for fluoride also improved, while Simplot sources of fluorides (i.e., cooling towers) remained operational during the case study inventory. This was an indication the inventories contain a representative balance of fluorides between the FMC and Simplot facilities (Table AJ-4).

Uranium-238, which was overpredicted at Site 2, was predicted within a factor of 2 at Site 2 for the case study model run. This further confirmed model sensitivity, since model-predicted values were in agreement with monitored data, after eliminating non-operating sources in the inventory.

Conclusions

The June 7 case study analysis was conducted at the request of the EPA and IDEQ to evaluate model sensitivity when certain EMF facility sources were not operating. The results of the case study evaluation indicate that the model is responsive to such operational changes. Model

predictions made using the case study inventory were in good agreement with monitored data for most constituents, although total chromium, lead-210, and thorium-230 continued to be overpredicted at the near-field receptors in the case study analysis. This suggests that those constituents may be overstated in EMF emission sources that were not modified in the case study inventory.

AJ-1.2.5 JANUARY 18 THROUGH JANUARY 22, 1994 CASE STUDY (STAGNATION PERIOD)

The period between January 18-22 was identified by the IDEQ as a minor air quality stagnation episode in Pocatello. A case study analysis for this period was conducted at the request of the EPA/IDEQ.

Gravimetric data (PM_{10} and TSP) were available for January 18, 20, and 22. Inorganic and radionuclide data were available for January 20 only.

Meteorology

A summary of meteorological data for January 20 at Sites 1 and 7 is presented in Table AJ-11. Wind roses for Sites 1 and 7 are provided in Figures AJ-23 and AJ-24. Winds during the five-day period were variable and mostly 5 mph or less on all days. Site 1 had slightly stronger wind speeds with several hourly averages around 6 mph. There were distinct differences in the daily wind direction between Site 1 and Site 7. Winds at Site 1 were predominantly from the west-northwest (Figure AJ-23), while winds measured at Site 7 were predominantly from the east to southeast (Figure AJ-24). Stability categories indicated that there was a ground based inversion in the early morning and late evening hours, with some breaking up of the inversion in the middle of the day. Ambient air temperature remained slightly below freezing during the five-day period. The Pocatello airport weather data noted smoke and haze on January 20. The IDEQ noted that this period was a minor stagnation period, based on nephelometer readings at its observation station at Garret and Gould streets in Pocatello.

Monitoring Data Overview (January 20)

PM_{10} concentrations near the EMF facilities (Sites 1 and 2 at 49.4 $\mu g/m^3$ and 72.9 $\mu g/m^3$, respectively) were lower than on most other days during January. PM_{10} concentrations at Sites 3, 4, 5, and (in the range of 40-55 $\mu g/m^3$) were higher than concentrations measured at these sites on other days in January.

Constituent levels observed at all monitoring sites are presented in Table AJ-5. At the community sites (Sites 3 and 4), most constituents (i.e., beryllium, cadmium, nickel, total phosphorus, radium-226, thorium-230, and uranium-238) were not detected on January 20. Total chromium was not detected at Site 3, but was detected at low levels at Site 4.

Operating Conditions on January 20

FMC Facility

- Ore stockpiling and silica hauling did not occur on any day during this period.
- The #2 furnace CO flare was flared for 6.5 hours on January 20.
- No PRV releases were reported in shutdown/bypass reports.
- Furnace #1 was not operating.

J.R. Simplot Plant

- No known upsets or unusual conditions were reported for the Simplot facility.

Adjustments to Inventories for the Stagnation Period

FMC Facility

- All emissions from #1 furnace were set at zero.
- Emission factors for wind erosion from stockpiles were recalculated using an average wind speed of 5 mph.
- Emission factors for material handling were recalculated using an average wind speed of 5 mph.

- Ore reclaiming emissions were calculated based on the tonnage of ore handled during each of the 3 days.
- The operational time for the #2 furnace CO flare was set at 6.5 hours on January 20. Operational times for all other furnace CO flares were set at zero on all days.

Simplot Plant

- Simplot operating in normal mode for all processes.

BAPCO

- It was assumed that asphalt batching did not occur due to winter conditions; therefore, emissions from these sources were set at zero.

Adjustments to Model for Case Study

Point source stack parameters at FMC (stack temperature, exit velocity, etc.) were adjusted for the operating conditions on the case study day.

Case Study Results

Modeling results for January 20 are summarized in Table AJ-5. Three-dimensional bar graph plots for PM_{10}, total phosphorus, total chromium, and total fluorides are shown in Figures AJ-25 through AJ-28.

PM_{10} concentrations were underpredicted at Sites 1 through 5 for both the base case and case study model runs. The PM_{10} concentration at Site 7 was overpredicted for both the base case and the case study inventories (Figure AJ-25). The overprediction decreased slightly from 96 $\mu g/m^3$ in the base case model run to 75 $\mu g/m^3$ in the case study model run at Site 7. The PM_{10} underprediction at Sites 1 through 5 likely reflects impacts from non-EMF site sources at these monitoring locations. Under stagnation conditions when the air mass is not moving out of the Pocatello air basin, emissions from non-EMF site sources would build up in the region and be measured at the monitoring sites.

Total phosphorus was underpredicted at Sites 1, 2, and 5 for both the base case and the case study model runs (Figure AJ-26). Total phosphorus was overpredicted for both cases at Site 7.

Total chromium was slightly overpredicted at Sites 2, 4, and 5 (Figure AJ-27) and overpredicted by a large margin at Site 7. Total fluorides showed generally good agreement at Sites 1, 2, and 6 with a similar overprediction at Site 7. There were no significant differences or improvements in model performance for total fluorides between the base case and the case study model runs.

The PM_{10} overprediction of many constituents at Site 7 is most likely the result of differences in the wind direction measured at Sites 1 and 7. The prevailing wind direction at Site 1 (used in the model) was from the west-northwest; winds from this direction would carry plant emissions towards Site 7. Wind direction at Site 7, however, varied from east-northeast to southeast, opposite the direction of Site 1. Since Site 1 meteorological data was used to conduct the modeling, the model did not recognize the different air flow pattern which occurred at Site 7 on January 20. In reality, air emissions from the EMF facilities were likely carried towards Site 7 (based on Site 1 wind direction), but pushed back towards the northwest by the different air flow pattern which was occurring at Site 7 before the emissions impacted the Site 7 monitoring station. Model-predicted values at Site 7 were overestimated because the upper level wind direction (at Site 7) was not taken into account. Thus, the model overprediction at Site 7 on January 20 is not an indication that the model was performing incorrectly; rather, it was the result of different meteorological regimes at the two sites.

Conclusions

Model performance was generally good for metals and radionuclides. Both model predictions and monitoring observations indicated that most of these constituents were not detected at the community monitoring sites north of the facilities.

Model-predicted concentrations (without addition of background) of PM_{10} at the community sites (Sites 3 and 4) were small — 0.0 $\mu g/m^3$ at Site 3 and 5.4 $\mu g/m^3$ at Site 4—whereas the monitored concentrations of PM_{10} at these sites were 42.2 $\mu g/m^3$ and 56.6 $\mu g/m^3$, respectively. The PM_{10} underprediction at Sites 3 and 4 is likely the result of impacts from non-EMF site sources. Under stagnation conditions, the air mass is not moving out of the Pocatello air basin, and particulate

emissions from non-EMF site sources could build up in the region and be measured at the monitoring sites.

Model overprediction for some EMF site-related constituents at Site 7 was not an indication that the model was performing incorrectly. Rather, this overprediction was the result of different wind flow patterns at Sites 1 and 7, which were not taken into account in the modeling.

AJ-1.2.6 GENERAL CONCLUSIONS

Development of the case studies identified several inappropriate assumptions and inaccuracies in the baseline emissions inventories and modeling parameters that were used in the 1994 modeling study. These insights were used to revise the baseline inventory and modeling parameters, resulting in an improvement in model performance.

The case studies confirmed that the revised baseline emission inventories and modeling parameters provide representative predictions (within the bounds of EPA guidelines) of the effects of facility emissions. Table AJ-6 summarizes model performance for each constituent using the revised baseline inventory as modified to reflect the meteorology and operating conditions at the facilities on each of the case study days.

The analyses indicated that the revised baseline daily emission inventory satisfactorily predicted the levels of PM_{10}, TSP, arsenic, beryllium, cadmium, total fluorides, nickel, lead-210, polonium-210, and radium-226 and -228. The case studies also showed that the model tended to overpredict total chromium, thorium-230, and uranium, and underpredict total phosphorus in many cases.

October 24, 1993 was selected for case study analysis because the polonium-210 activity at Site 2 (0.045 pCi/m^3) predicted in the 1994 study was less than a factor of two of the observed activity (0.35 pCi/m^3). In addition, predicted activities at other sites were generally greater than observed levels. The case study evaluation resulted in a change to model input parameters for the calculated exit velocities for the calciner stacks, the primary source of polonium-210 emissions. Using revised calciner stack exit velocities for the model input parameters, the predicted polonium-210

activity at Site 2 (including background) was 0.33 pCi/m^3 for the revised baseline and 0.31 pCi/m^3 for the case study model run. In both instances, model performance for polonium-210 improved to within a factor of two (i.e., 0.9) of the monitored activity. This case study resulted in

On April 14, 1994, the measured PM_{10} concentration at Site 2 was 150.7 μg/m^3, compared with a modeled concentration of 74.8 μg/m^3 (base case). Addition of a previously undefined source active during this period (calciner fines recycling at the FMC shale piles) to the emissions inventory increased the model-predicted concentration to 127.4 μg/m^3. This confirmed that the model was performing within EPA guidelines and that it was sensitive to adjustments to the modeled input emission rates. Calciner fines recycling was not added to the permanent emissions inventory, because this was not a routine activity and was only being conducted on an experimental basis.

The June 7, 1994 case study evaluated a day when FMC point sources were not operating and Simplot operations were in a reduced mode. By eliminating non-operating sources from the emissions inventories, model-predicted concentrations decreased and model performance was acceptable (within a factor of two of observed levels) for most constituents. However, total chromium was overpredicted at 4 of 6 sites, lead-210 was overpredicted at 5 of 6 sites, and uranium was overpredicted at 3 of 6 sites. Review of the modeling results indicated that these overpredictions were likely attributable to an overstatement of total chromium and uranium in windblown emissions from several FMC stockpiles, while the overprediction in lead-210 was likely attributable to an overstatement in emissions from BAPCO area sources. Underpredictions were noted for TSP (2 of 6 sites), cadmium (1 of 6 sites), total phosphorus (2 of 6 sites), and polonium-210 (4 of 6 sites).

The case studies also confirmed model performance at Site 5 (a far-field community monitoring site). In the majority of cases, model-predicted values at Site 5 were zero or near the constituent's detection limit (IDL). Most monitored constituent concentrations (or activities) at Site 5 were

also below or near the IDL. This was an indication that where the model predicted no EMF site-related effects would occur, indeed no effects were measured.

At the request of the EPA and the IDEQ, the period of January 18 through January 22, 1994 was evaluated. The IDEQ identified this period as a minor atmospheric stagnation episode in Pocatello, based on data collected at the IDEQ's downtown monitoring site. Monitored levels at the community sites (Sites 3 and 4) of constituents of potential concern in evaluating risk to human health (i.e., beryllium, cadmium, nickel, radium-226, thorium-230, and uranium-238) were below detection levels on January 20. Other constituents at these sites were either below detection levels (i.e., total phosphorus at both sites and total chromium at Site 3), or were detected at low levels (i.e., total chromium at Site 4). The revised base inventory and case study both predicted that EMF facility contributions of these constituents at these sites were either zero (at Site 3) or below or near detection levels at Site 4.

However, the monitored levels of PM_{10} (42.2 and 56.6 $\mu g/m^3$) and TSP (78.8 and 103 $\mu g/m^3$) at Sites 3 and 4, respectively, were well above model-predicted levels [both zero at Site 3, and 4.5 $\mu g/m^3$ (PM_{10}) and 5.6 $\mu g/m^3$ (TSP) at Site 4]. Winds on January 20, 1994 were light and variable, although predominately from the east. Consequently, Sites 3 and 4 were generally not downwind of the EMF facilities on this day. This was an indication that sources of PM_{10} and TSP from other than the EMF facilities impacted these locations.

Air Modeling Report
Tables for Appendix AJ

Table AJ-1
Comparison of Monitored and Modeled Concentrations or Activities for April 14, 1994 (μg/m³ or pCi/m³)

Site 1

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	53.1	24.2	42.2	Within 2	20.7	38.7	Within 2	27.3	45.3	Within 2
TSP	141.1	41.2	101.2	Within 2	37.0	97.0	Within 2	42.4	102.4	Within 2
Arsenic	6.22E-04	8.31E-04	8.31E-04	Within 2	7.54E-04	7.54E-04	Within 2	1.06E-03	1.06E-03	Within 2
Beryllium	NM	3.08E-05	NA	NA	5.92E-06	NA	NA	7.25E-06	NA	NA
Cadmium	5.65E-03	1.78E-02	1.78E-02	> 2	9.25E-03	9.25E-03	Within 2	1.03E-02	1.03E-02	Within 2
Chromium, Total	9.95E-03	2.82E-02	2.82E-02	> 2	1.97E-02	1.97E-02	Within 2	4.28E-02	4.28E-02	> 2
Total Fluorides	8.7	1.5	3.4	< 2	1.5	3.4	< 2	1.3	3.2	< 2
Nickel	NM	6.01E-03	NA	NA	4.00E-03	NA	NA	7.73E-03	NA	NA
Phosphorus	3.9	1.9	1.9	Within 2	1.3	1.3	< 2	1.7	1.7	< 2
Lead-210	6.74E-04	3.35E-04	8.24E-03	> 2	4.05E-04	8.31E-03	> 2	4.91E-04	8.39E-03	> 2
Polonium-210	2.74E-02	1.64E-01	1.71E-01	> 2	1.16E-01	1.23E-01	> 2	1.21E-01	1.28E-01	> 2
Radium-226	< 0.0005	2.87E-04	2.87E-04	Agree @ IDL	2.61E-04	2.61E-04	Agree @ IDL	4.55E-04	4.55E-04	Agree @ IDL
Thorium-230	2.56E-04	3.56E-04	3.56E-04	Within 2	3.10E-04	3.10E-04	Within 2	4.65E-04	4.65E-04	Within 2
U-238	2.27E-04	2.97E-04	2.97E-04	Within 2	2.68E-04	2.68E-04	Within 2	3.59E-04	3.59E-04	Within 2

Site 2

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	150.7	58.2	76.2	Within 2	57.3	75.3	Within 2	111.6	129.6	Within 2
TSP	442.6	129.4	189.4	< 2	115.0	175.0	< 2	184.8	244.8	Within 2
Arsenic	2.35E-03	2.42E-03	2.42E-03	Within 2	2.67E-03	2.67E-03	Within 2	4.83E-03	4.83E-03	> 2
Beryllium	NM	4.51E-05	NA	NA	1.81E-05	NA	NA	3.49E-05	NA	NA
Cadmium	3.11E-02	4.16E-02	4.16E-02	Within 2	2.43E-02	2.43E-02	Within 2	3.24E-02	3.24E-02	Within 2
Chromium, Total	4.86E-02	8.66E-02	8.66E-02	Within 2	7.65E-02	7.65E-02	Within 2	2.53E-01	2.53E-01	> 2
Total Fluorides	4.8	1.6	3.5	Within 2	2.5	4.4	Within 2	2.6	4.5	Within 2
Nickel	NM	1.67E-02	NA	NA	1.48E-02	NA	NA	4.31E-02	NA	NA
Phosphorus	16.2	5.0	5.0	< 2	3.9	3.9	< 2	7.4	7.4	< 2
Lead-210	1.01E-02	7.59E-04	8.66E-03	Within 2	1.27E-03	9.17E-03	Within 2	1.92E-03	9.82E-03	Within 2
Polonium-210	1.01E-01	1.03E-01	1.10E-01	Within 2	2.38E-01	2.45E-01	> 2	3.47E-01	3.54E-01	> 2
Radium-226	< 0.0005	6.60E-04	6.60E-04	Agree @ IDL	8.07E-04	8.07E-04	Agree @ IDL	2.18E-03	2.18E-03	> 2
Thorium-230	7.40E-04	4.78E-04	4.78E-04	Within 2	6.46E-04	6.46E-04	Within 2	1.74E-03	1.74E-03	> 2
U-238	1.04E-03	4.67E-04	4.67E-04	< 2	6.48E-04	6.48E-04	Within 2	1.61E-03	1.61E-03	Within 2

Site 3

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	28.7	58.2	76.2	> 2	3.7	21.7	Within 2	4.2	22.2	Within 2
TSP	142.1	11.7	71.7	Within 2	6.3	66.3	< 2	6.5	66.5	< 2
Arsenic	2.10E-04	2.45E-04	2.45E-04	Within 2	1.76E-04	1.76E-04	Within 2	1.89E-04	1.89E-04	Within 2
Beryllium	NM	7.15E-06	NA	NA	1.12E-06	NA	NA	1.16E-06	NA	NA
Cadmium	1.98E-03	5.51E-03	5.51E-03	> 2	2.32E-03	2.32E-03	Within 2	1.96E-03	1.96E-03	Within 2
Chromium, Total	< 0.00017	7.00E-03	7.00E-03	> 2	3.43E-03	3.43E-03	> 2	6.15E-03	6.15E-03	> 2
Total Fluorides	NM	0.2	NA	NA	0.3	NA	NA	0.3	NA	NA
Nickel	NM	1.18E-03	NA	NA	7.05E-04	NA	NA	1.13E-03	NA	NA
Phosphorus	< 0.2	0.5	0.5	> 2	0.2	0.2	Within 2	0.3	0.3	Within 2
Lead-210	8.77E-03	9.63E-05	8.00E-03	Within 2	8.43E-05	7.98E-03	Within 2	9.26E-05	7.99E-03	Within 2
Polonium-210	1.20E-02	3.47E-02	4.16E-02	> 2	2.28E-02	2.97E-02	> 2	2.15E-02	2.84E-02	> 2
Radium-226	< 0.0005	6.77E-05	6.77E-05	Agree @ IDL	4.92E-05	4.92E-05	Agree @ IDL	7.16E-05	7.16E-05	Agree @ IDL
Thorium-230	< 0.000035	6.29E-05	6.29E-05	Within 2	4.34E-05	4.34E-05	Within 2	6.12E-05	6.12E-05	Within 2
U-238	< 1.59E-6	5.83E-05	5.83E-05	> 2	4.21E-05	4.21E-05	> 2	5.13E-05	5.13E-05	> 2

Site 4

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	19.5	3.5	21.5	Within 2	4.2	22.2	Within 2	6.1	24.1	Within 2
TSP	72.7	7.2	67.2	Within 2	7.5	67.5	Within 2	10.1	70.1	Within 2
Arsenic	< 0.00017	1.35E-04	1.35E-04	Agree @ IDL	1.67E-04	1.67E-04	Agree @ IDL	2.55E-04	2.55E-04	Within 2
Beryllium	NM	5.00E-06	NA	NA	1.64E-06	NA	NA	1.89E-06	NA	NA
Cadmium	< 0.0013	2.35E-03	2.35E-03	Within 2	1.95E-03	1.95E-03	Within 2	2.07E-03	2.07E-03	Within 2
Chromium, Total	< 0.00017	3.89E-03	3.89E-03	> 2	4.76E-03	4.76E-03	> 2	1.08E-02	1.08E-02	> 2
Total Fluorides	NM	0.2	NA	NA	0.3	NA	NA	0.2	NA	NA
Nickel	NM	8.53E-04	NA	NA	9.11E-04	NA	NA	1.87E-03	NA	NA
Phosphorus	< 0.2	0.2	0.2	Within 2	0.2	0.2	Within 2	0.3	0.3	Within 2
Lead-210	7.08E-03	8.25E-05	7.98E-03	Within 2	1.06E-04	8.01E-03	Within 2	1.37E-04	8.04E-03	Within 2
Polonium-210	7.47E-03	2.35E-02	3.04E-02	> 2	2.25E-02	2.94E-02	> 2	1.74E-02	2.43E-02	> 2
Radium-226	< 0.0005	5.32E-05	5.32E-05	Agree @ IDL	6.72E-05	6.72E-05	Agree @ IDL	1.21E-04	1.21E-04	Agree @ IDL
Thorium-230	< 0.000035	4.51E-05	4.51E-05	Within 2	5.42E-05	5.42E-05	Within 2	9.70E-05	9.70E-05	> 2
U-238	< 1.59E-06	3.71E-05	3.71E-05	> 2	4.66E-05	4.66E-05	> 2	4.04E-05	4.04E-05	> 2

Notes:

"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable

Performance = Model Performance:

Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-1 (continued)
Comparison of Monitored and Modeled Concentrations or Activities for April 14, 1994 (μg/m³ or pCi/m³)

Site 5										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	16.7	0.0	18.0	Within 2	0.0	18.0	Within 2	0.0	18.0	Within 2
TSP	61.9	0.0	60.0	Within 2	0.0	60.0	Within 2	0.0	60.0	Within 2
Arsenic	< 0.00017	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Beryllium	NM	0.00E+00	NA	NA	0.00E+00	NA	NA	0.00E+00	NA	NA
Cadmium	< 0.0013	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Chromium, Total	< 0.00017	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Total Fluorides	1.8	0.0	NA	Within 2	0.0	NA	Within 2	0.0	NA	Within 2
Nickel	NM	0.00E+00	NA	NA	0.00E+00	NA	NA	0.00E+00	NA	NA
Phosphorus	< 0.2	0.00	0.0	Agree @ IDL	0.0	0.0	Agree @ IDL	0.0	0.0	Agree @ IDL
Lead-210	6.10E-03	0.00E+00	7.90E-03	Within 2	0.00E+00	7.90E-03	Within 2	0.00E+00	7.90E-03	Within 2
Polonium-210	8.70E-03	0.00E+00	6.90E-03	Within 2	0.00E+00	6.90E-03	Within 2	0.00E+00	6.90E-03	Within 2
Radium-226	< 0.0005	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Thorium-230	< 0.000035	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
U-238	< 1.59E-6	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL

Site 7										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	19.2	0.7	18.7	Within 2	2.6	20.6	Within 2	4.9	22.9	Within 2
TSP	48.0	1.2	61.2	Within 2	4.8	64.8	Within 2	8.8	68.8	Within 2
Arsenic	2.03E-04	1.41E-05	1.41E-05	Within 2	7.66E-05	7.66E-05	Within 2	1.82E-04	1.82E-04	Within 2
Beryllium	NM	5.59E-07	NA	NA	9.23E-07	NA	NA	1.67E-06	NA	NA
Cadmium	< 0.0013	2.02E-04	2.02E-04	Agree @ IDL	4.87E-04	4.87E-04	Agree @ IDL	9.70E-04	9.70E-04	Agree @ IDL
Chromium, Total	< 0.00017	4.56E-04	4.56E-04	> 2	3.26E-03	3.26E-03	> 2	9.51E-03	9.51E-03	> 2
Total Fluorides	NM	6.16E-03	NA	NA	0.2	NA	NA	0.2	NA	NA
Nickel	NM	1.07E-04	NA	NA	5.87E-04	NA	NA	1.60E-03	NA	NA
Phosphorus	< 0.2	0.01	0.01	Agree @ IDL	0.1	0.1	Agree @ IDL	0.2	0.2	Within 2
Lead-210	6.10E-03	3.39E-05	7.93E-03	Within 2	5.76E-05	7.96E-03	Within 2	9.82E-05	8.00E-03	Within 2
Polonium-210	7.32E-03	3.45E-05	6.93E-03	Within 2	1.09E-04	7.01E-03	Within 2	2.58E-04	7.16E-03	Within 2
Radium-226	< 0.0005	1.39E-05	1.39E-05	Agree @ IDL	4.89E-05	4.89E-05	Agree @ IDL	1.07E-04	1.07E-04	Agree @ IDL
Thorium-230	< 0.000035	1.10E-05	1.10E-05	Agree @ IDL	4.12E-05	4.12E-05	Within 2	8.77E-05	8.77E-05	> 2
U-238	< 1.59E-6	5.54E-06	5.54E-06	> 2	2.24E-05	2.24E-05	> 2	7.67E-06	7.67E-06	> 2

Notes:

"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable

Performance = Model Performance:

Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-2
Comparison of Monitored and Modeled Concentrations or Activities for October 24, 1993 (μg/m³ or pCi/m³)

Site 1

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	48.0	14.4	28.4	Within 2	13.5	27.5	Within 2	13.3	27.3	Within 2
TSP	93.8	26.9	54.9	Within 2	23.1	51.1	Within 2	22.3	50.3	Within 2
Arsenic	1.61E-03	3.73E-04	1.73E-03	Within 2	4.07E-04	1.77E-03	Within 2	3.57E-04	1.72E-03	Within 2
Beryllium	< 0.00017	1.13E-05	1.13E-05	Agree @ IDL	3.62E-06	3.62E-06	Agree @ IDL	3.66E-06	3.66E-06	Agree @ IDL
Cadmium	5.13E-03	5.70E-03	5.70E-03	Within 2	4.88E-03	4.88E-03	Within 2	3.77E-03	3.77E-03	Within2
Chromium, Total	5.54E-03	1.40E-02	1.40E-02	> 2	1.18E-02	1.18E-02	> 2	1.08E-02	1.08E-02	Within 2
Total Fluorides	1.0	1.2	1.2	Within 2	1.1	1.1	Within 2	1.1	1.1	Within 2
Nickel	3.61E-03	2.93E-03	2.93E-03	Within 2	2.43E-03	2.43E-03	Within 2	2.27E-03	2.27E-03	Within 2
Phosphorus	2.9	0.9	0.9	< 2	0.8	0.8	< 2	0.7	0.7	< 2
Lead-210	4.23E-02	1.86E-04	4.41E-02	Within 2	2.47E-04	4.41E-02	Within 2	2.53E-04	4.41E-02	Within 2
Polonium-210	4.47E-02	4.59E-02	5.29E-02	Within 2	7.14E-02	7.84E-02	Within 2	7.62E-02	8.32E-02	Within 2
Radium-226	< 0.0005	1.39E-04	1.39E-04	Agree @ IDL	1.57E-04	1.57E-04	Agree @ IDL	1.43E-04	1.43E-04	Agree @ IDL
Thorium-230	< 0.000035	2.55E-04	2.55E-04	> 2	2.22E-04	2.22E-04	> 2	2.17E-04	2.17E-04	Within 2
U-238	1.47E-04	1.82E-04	1.82E-04	Within 2	1.81E-04	1.81E-04	Within 2	1.70E-04	1.70E-04	Within 2

Site 2

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	106.8	71.3	85.3	Within 2	69.3	83.3	Within 2	73.4	87.4	Within 2
TSP	270.7	132.4	160.4	Within 2	122.0	150.0	Within 2	130.3	158.3	Within 2
Arsenic	2.45E-03	2.41E-03	3.77E-03	Within 2	2.74E-03	4.10E-03	Within 2	2.40E-03	3.76E-03	Within 2
Beryllium	2.71E-04	4.02E-05	4.02E-05	Within 2	1.80E-05	1.80E-05	Within 2	2.11E-05	2.11E-05	Within 2
Cadmium	3.55E-02	3.30E-02	3.30E-02	Within 2	2.61E-02	2.61E-02	Within 2	1.54E-02	1.54E-02	< 2
Chromium, Total	3.50E-02	9.64E-02	9.64E-02	> 2	7.61E-02	7.61E-02	> 2	7.20E-02	7.20E-02	> 2
Total Fluorides	3.8	3.5	3.5	Within 2	4.4	4.4	Within 2	4.1	4.1	Within 2
Nickel	7.56E-03	1.82E-02	1.82E-02	> 2	1.50E-02	1.50E-02	Within 2	1.50E-02	1.50E-02	Within 2
Phosphorus	12.6	4.7	4.7	< 2	4.4	4.4	< 2	3.8	3.8	< 2
Lead-210	4.77E-02	7.64E-04	4.46E-02	Within 2	1.29E-03	4.52E-02	Within 2	1.50E-03	4.54E-02	Within 2
Polonium-210	3.51E-01	3.81E-02	4.51E-02	< 2	2.89E-01	2.96E-01	Within 2	2.38E-01	2.45E-01	Within 2
Radium-226	< 0.0005	6.37E-04	6.37E-04	Within 2	8.20E-04	8.20E-04	Within 2	7.10E-04	7.10E-04	Within 2
Thorium-230	6.48E-04	8.77E-04	8.77E-04	Within 2	1.30E-03	1.30E-03	Within 2	1.23E-03	1.23E-03	Within 2
U-238	8.98E-04	6.75E-04	6.75E-04	Within 2	9.79E-04	9.79E-04	Within 2	9.03E-04	9.03E-04	Within 2

Site 3

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	21.3	6.6	20.6	Within 2	4.9	18.9	Within 2	4.4	18.4	Within 2
TSP	57.6	12.8	40.8	Within 2	8.5	36.5	Within 2	7.7	35.7	Within 2
Arsenic	1.19E-03	2.82E-04	1.64E-03	Within 2	2.38E-04	1.60E-03	Within 2	1.85E-04	1.55E-03	Within 2
Beryllium	< 0.00017	7.26E-06	7.26E-06	Agree @ IDL	1.85E-06	1.85E-06	Agree @ IDL	1.79E-06	1.79E-06	Agree @ IDL
Cadmium	2.18E-03	4.97E-03	4.97E-03	> 2	3.61E-03	3.61E-03	Within 2	2.15E-03	2.15E-03	Within 2
Chromium, Total	2.12E-03	8.78E-03	8.78E-03	> 2	4.80E-03	4.80E-03	> 2	4.46E-03	4.46E-03	> 2
Total Fluorides	NM	0.2	NA	NA	0.3	NA	NA	0.3	NA	NA
Nickel	< 0.0033	1.76E-03	1.76E-03	Agree @ IDL	9.91E-04	9.91E-04	Agree @ IDL	9.25E-04	9.25E-04	Agree @ IDL
Phosphorus	0.8	0.5	0.5	Within 2	0.4	0.4	Within 2	0.3	0.3	< 2
Lead-210	3.57E-02	1.12E-04	4.40E-02	Within 2	1.10E-04	4.40E-02	Within 2	1.09E-04	4.40E-02	Within 2
Polonium-210	2.82E-02	3.03E-02	3.73E-02	Within 2	4.89E-02	5.59E-02	Within 2	4.73E-02	5.43E-02	Within 2
Radium-226	< 0.0005	7.66E-05	7.66E-05	Agree @ IDL	7.40E-05	7.40E-05	Agree @ IDL	6.64E-05	6.64E-05	Agree @ IDL
Thorium-230	< 0.000035	6.95E-05	6.95E-05	Within 2	6.43E-05	6.43E-05	Within 2	5.77E-05	5.77E-05	Within 2
U-238	< 1.59E-06	6.48E-05	6.48E-05	> 2	6.42E-05	6.42E-05	> 2	5.73E-04	5.73E-04	> 2

Site 4

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	17.6	7.3	21.3	Within 2	6.5	20.5	Within 2	6.8	20.8	Within 2
TSP	37.1	12.2	40.2	Within 2	9.1	37.1	Within 2	9.9	37.9	Within 2
Arsenic	1.24E-03	2.11E-04	1.57E-03	Within 2	2.05E-04	1.57E-03	Within 2	1.94E-04	1.55E-03	Within 2
Beryllium	< 0.00017	3.59E-06	3.59E-06	Agree @ IDL	1.24E-06	1.24E-06	Agree @ IDL	1.41E-06	1.41E-06	Agree @ IDL
Cadmium	< 0.00133	2.54E-03	2.54E-03	Within 2	1.15E-03	1.15E-03	Within 2	9.80E-04	9.80E-04	Agree @ IDL
Chromium, Total	1.33E-03	9.30E-03	9.30E-03	> 2	6.81E-03	6.81E-03	> 2	6.48E-03	6.48E-03	> 2
Total Fluorides	NM	0.7	NA	NA	0.5	NA	NA	0.5	NA	NA
Nickel	< 0.0033	1.73E-03	1.73E-03	Agree @ IDL	1.34E-03	1.34E-03	Agree @ IDL	1.31E-03	1.31E-03	Agree @ IDL
Phosphorus	< 0.2	0.5	0.5	> 2	0.4	0.4	Within 2	0.4	0.4	Within 2
Lead-210	4.39E-02	7.27E-05	4.40E-02	Within 2	1.04E-04	4.40E-02	Within 2	1.16E-04	4.40E-02	Within 2
Polonium-210	1.40E-02	1.64E-03	8.60E-03	Within 2	1.87E-03	8.83E-03	Within 2	3.40E-03	1.04E-02	Within 2
Radium-226	< 0.0005	7.22E-05	7.22E-05	Within 2	6.63E-05	6.63E-05	Within 2	6.30E-05	6.30E-05	Within 2
Thorium-230	< 0.000035	1.03E-04	1.03E-04	> 2	9.18E-05	9.18E-05	> 2	8.94E-05	8.94E-05	> 2
U-238	< 1.59E-06	7.92E-05	7.92E-05	> 2	7.16E-05	7.16E-05	> 2	6.94E-05	6.94E-05	> 2

Notes:
"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable

Performance = Model Performance:
Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-2 (continued)
Comparison of Monitored and Modeled Concentrations or Activities for October 24, 1993 (μg/m³ or pCi/m³)

Site 5										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	19.8	8.1	22.1	Within 2	9.7	23.7	Within 2	9.3	23.3	Within 2
TSP	38.6	16.0	44.0	Within 2	17.2	45.2	Within 2	14.9	42.9	Within 2
Arsenic	1.35E-03	3.80E-04	1.74E-03	Within 2	4.16E-04	1.78E-03	Within 2	3.71E-04	1.73E-03	Within 2
Beryllium	< 0.00017	8.30E-06	8.30E-06	Agree @ IDL	4.38E-06	4.38E-06	Agree @ IDL	5.26E-06	5.26E-06	Agree @ IDL
Cadmium	5.05E-03	5.48E-03	5.48E-03	Within 2	6.85E-03	6.85E-03	Within 2	6.98E-03	6.98E-03	Within 2
Chromium, Total	2.36E-03	1.34E-02	1.34E-02	> 2	1.06E-02	1.06E-02	> 2	8.86E-03	8.86E-03	> 2
Total Fluorides	NM	0.5	NA	NA	0.8	NA	NA	0.6	NA	NA
Nickel	< 0.0033	2.62E-03	2.62E-03	Agree @ IDL	2.19E-03	2.19E-03	Agree @ IDL	1.94E-03	1.94E-03	Agree @ IDL
Phosphorus	1.1	0.6	0.6	Within 2	0.8	0.8	Within 2	0.6	0.6	Within 2
Lead-210	3.82E-02	1.36E-04	4.40E-02	Within 2	2.04E-04	4.41E-02	Within 2	1.99E-04	4.41E-02	Within 2
Polonium-210	4.48E-02	2.38E-02	3.08E-02	Within 2	1.25E-01	1.32E-01	> 2	1.46E-01	1.53E-01	> 2
Radium-226	< 0.0005	1.12E-04	1.12E-04	Agree @ IDL	1.63E-04	1.63E-04	Agree @ IDL	1.35E-04	1.35E-04	Agree @ IDL
Thorium-230	< 0.000035	9.48E-05	9.48E-05	> 2	1.45E-04	1.45E-04	> 2	1.17E-04	1.17E-04	> 2
U-238	< 1.59E-06	9.21E-05	9.21E-05	> 2	1.45E-04	1.45E-04	> 2	1.21E-04	1.21E-04	> 2

Site 7										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}*	-	15.0	29.0	NA	21.6	35.6	NA	20.6	34.6	NA
TSP	36.1	24.4	52.4	Within 2	32.2	60.2	Within 2	30.0	58.0	Within 2
Arsenic	-	5.58E-04	1.92E-03	NA	8.78E-04	2.24E-03	NA	7.66E-04	2.13E-03	NA
Beryllium	-	2.17E-05	2.17E-05	NA	7.70E-06	7.70E-06	NA	7.47E-06	7.47E-06	NA
Cadmium	-	1.03E-02	1.03E-02	NA	1.06E-02	1.06E-02	NA	8.77E-03	8.77E-03	NA
Chromium, Total	-	1.40E-02	1.40E-02	NA	2.61E-02	2.61E-02	NA	2.55E-02	2.55E-02	NA
Total Fluorides	1.5	0.9	0.9	Within 2	1.5	1.5	Within 2	1.4	1.4	Within 2
Nickel	-	3.12E-03	3.12E-03	NA	4.80E-03	4.80E-03	NA	4.67E-03	4.67E-03	NA
Phosphorus	-	0.9	0.9	NA	1.2	1.2	NA	1.0	1.0	NA
Lead-210	-	3.58E-04	4.42E-02	NA	5.61E-04	4.44E-02	NA	5.49E-04	4.44E-02	NA
Polonium-210	-	1.10E-01	1.17E-01	NA	1.33E-01	1.40E-01	NA	1.31E-01	1.38E-01	NA
Radium-226	-	2.16E-04	2.16E-04	NA	3.78E-04	3.78E-04	NA	3.32E-04	3.32E-04	NA
Thorium-230	-	1.81E-04	1.81E-04	NA	3.08E-04	3.08E-04	NA	2.93E-04	2.93E-04	NA
U-238	-	1.51E-04	1.51E-04	NA	2.74E-04	2.74E-04	NA	2.58E-04	2.58E-04	NA

Notes:

"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable
*PM_{10} sample was void at Site 7

Performance = Model Performance:

Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-3
Comparison of Monitored and Modeled Concentrations or Activities for January 6, 1994 (μg/m³ or pCi/m³)

Site 1

Constituent	Observed	Sept 1994 Model (A) Prediction	Sept 1994 Model A+Background	Sept 1994 Model Performance	Revised Base Inventory (B) Predicted	Revised Base Inventory B+Background	Revised Base Inventory Performance	Case Study Confirmation (C) Prediction	Case Study Confirmation C+Background	Case Study Confirmation Performance
PM_{10}	45.5	32.3	33.3	Within 2	26.5	27.5	Within 2	25.4	26.4	Within 2
TSP	108.8	65.5	69.5	Within 2	47.3	51.3	Within 2	54.4	58.4	Within 2
Arsenic	8.30E-04	1.13E-03	1.13E-03	Within 2	9.97E-04	9.97E-04	Within 2	7.87E-04	7.87E-04	Within 2
Beryllium	< 0.00017	3.73E-05	3.73E-05	Agree @ IDL	7.65E-06	7.65E-06	Agree @ IDL	8.03E-06	8.03E-06	Agree @ IDL
Cadmium	8.87E-03	2.28E-02	2.28E-02	> 2	1.21E-02	1.21E-02	Within 2	1.34E-02	1.34E-02	Within 2
Chromium, Total	3.60E-02	3.85E-02	3.91E-02	Within 2	2.49E-02	2.55E-02	Within 2	5.37E-02	5.43E-02	Within 2
Total Fluorides	NM	2.1	NA	NA	1.7	NA	NA	1.6	NA	NA
Nickel	6.61E-03	8.12E-03	8.12E-03	Within 2	5.08E-03	5.08E-03	Within 2	1.03E-02	1.03E-02	Within 2
Phosphorus	3.9	2.7	2.7	Within 2	1.7	1.7	< 2	1.7	1.7	< 2
Lead-210	3.83E-03	4.48E-04	3.87E-03	Within 2	5.56E-04	3.98E-03	Within 2	5.55E-04	3.98E-03	Within 2
Polonium-210	1.93E-02	1.82E-01	1.82E-01	> 2	1.54E-01	1.54E-01	> 2	1.57E-01	1.57E-01	> 2
Radium-226	< 0.0005	3.71E-04	3.71E-04	Agree @ IDL	3.29E-04	3.29E-04	Agree @ IDL	3.39E-04	3.39E-04	Agree @ IDL
Thorium-230	3.00E-04	5.04E-04	5.04E-04	Within 2	3.95E-04	3.95E-04	Within 2	4.12E-04	4.12E-04	Within 2
U-238	< 1.59E-06	4.02E-04	4.02E-04	> 2	3.32E-04	3.32E-04	> 2	3.44E-04	3.44E-04	> 2

Site 2

Constituent	Observed	Sept 1994 Model (A) Prediction	Sept 1994 Model A+Background	Sept 1994 Model Performance	Revised Base Inventory (B) Predicted	Revised Base Inventory B+Background	Revised Base Inventory Performance	Case Study Confirmation (C) Prediction	Case Study Confirmation C+Background	Case Study Confirmation Performance
PM_{10}	92.8	55.4	56.4	Within 2	64.4	65.4	Within 2	72.3	73.3	Within 2
TSP	297.8	114.8	118.8	< 2	126.0	130.0	< 2	165.0	169.0	Within 2
Arsenic	2.79E-03	2.32E-05	2.32E-05	< 2	3.01E-03	3.01E-03	Within 2	2.79E-03	2.79E-03	Within 2
Beryllium	< 0.00017	2.73E-05	2.73E-05	Agree @ IDL	1.59E-05	1.59E-05	Agree @ IDL	2.09E-05	2.09E-05	Agree @ IDL
Cadmium	3.01E-02	4.18E-02	4.18E-02	Within 2	2.49E-02	2.49E-02	Within 2	1.63E-02	1.63E-02	Within 2
Chromium, Total	1.19E-01	7.15E-02	7.21E-02	Within 2	7.93E-02	7.99E-02	Within 2	1.74E-01	1.75E-01	Within 2
Total Fluorides	NM	1.1	NA	NA	2.3	NA	NA	2.6	NA	NA
Nickel	2.25E-02	1.39E-02	1.39E-02	Within 2	1.55E-02	1.55E-02	Within 2	3.25E-02	3.25E-02	Within 2
Phosphorus	13.3	5.4	5.4	< 2	4.2	4.2	< 2	4.7	4.7	< 2
Lead-210	8.89E-03	6.81E-04	4.10E-03	< 2	1.43E-03	4.85E-03	Within 2	1.69E-03	5.11E-03	Within 2
Polonium-210	2.96E-02	1.46E-04	1.46E-04	< 2	5.53E-02	5.53E-02	Within 2	3.93E-02	3.93E-02	Within 2
Radium-226	< 0.0005	4.19E-04	4.19E-04	Agree @ IDL	7.41E-04	7.41E-04	Within 2	1.01E-03	1.01E-03	Within 2
Thorium-230	7.40E-04	3.13E-04	3.13E-04	< 2	5.67E-04	5.67E-04	Within 2	7.90E-04	7.90E-04	Within 2
U-238	3.32E-04	2.97E-04	2.97E-04	Within 2	5.68E-04	5.68E-04	Within 2	7.60E-04	7.60E-04	> 2

Site 3

Constituent	Observed	Sept 1994 Model (A) Prediction	Sept 1994 Model A+Background	Sept 1994 Model Performance	Revised Base Inventory (B) Predicted	Revised Base Inventory B+Background	Revised Base Inventory Performance	Case Study Confirmation (C) Prediction	Case Study Confirmation C+Background	Case Study Confirmation Performance
PM_{10}	7.9	2.5	3.5	< 2	1.7	2.7	< 2	1.3	2.3	< 2
TSP	23.2	5.5	9.5	< 2	2.9	6.9	< 2	3.8	7.8	< 2
Arsenic	< 0.00017	1.07E-04	1.07E-04	Agree @ IDL	7.21E-05	7.21E-05	Agree @ IDL	4.40E-03	4.40E-03	> 2
Beryllium	< 0.00017	1.55E-06	1.55E-06	Agree @ IDL	3.68E-07	3.68E-07	Agree @ IDL	3.36E-07	3.36E-07	Agree @ IDL
Cadmium	< 0.0013	1.43E-03	1.43E-03	Within 2	5.88E-04	5.88E-04	Agree @ IDL	2.97E-04	2.97E-04	Agree @ IDL
Chromium, Total	4.97E-03	2.87E-03	3.44E-03	Within 2	1.31E-03	1.88E-03	< 2	5.86E-03	6.43E-03	Within 2
Total Fluorides	NM	0.1	NA	NA	0.1	NA	NA	0.1	NA	NA
Nickel	< 0.0033	5.59E-04	5.59E-04	Agree @ IDL	2.61E-04	2.61E-04	Agree @ IDL	1.09E-03	1.09E-03	Agree @ IDL
Phosphorus	1.1	0.1	0.1	< 2	0.1	0.1	< 2	0.1	0.1	< 2
Lead-210	2.28E-03	5.21E-05	3.47E-03	Within 2	5.35E-05	3.47E-03	Within 2	4.68E-05	3.47E-03	Within 2
Polonium-210	5.26E-03	2.00E-03	2.00E-03	< 2	1.39E-03	1.39E-03	< 2	1.21E-03	1.21E-03	< 2
Radium-226	< 0.0005	2.60E-05	2.60E-05	Agree @ IDL	1.83E-05	1.83E-05	Agree @ IDL	1.79E-05	1.79E-05	Agree @ IDL
Thorium-230	< 0.000035	2.00E-05	2.00E-05	Agree @ IDL	1.25E-05	1.25E-05	Agree @ IDL	1.28E-05	1.28E-05	Agree @ IDL
U-238	< 1.59E-06	1.90E-05	1.90E-05	> 2	1.34E-05	1.34E-05	> 2	1.32E-05	1.32E-05	> 2

Site 4

Constituent	Observed	Sept 1994 Model (A) Prediction	Sept 1994 Model A+Background	Sept 1994 Model Performance	Revised Base Inventory (B) Predicted	Revised Base Inventory B+Background	Revised Base Inventory Performance	Case Study Confirmation (C) Prediction	Case Study Confirmation C+Background	Case Study Confirmation Performance
PM_{10}	3.8	2.4	3.4	Within 2	3.0	4.0	Within 2	4.8	5.8	Within 2
TSP	15.3	4.7	8.7	Within 2	5.2	9.2	Within 2	9.5	13.5	Within 2
Arsenic	< 0.00017	8.46E-05	8.46E-05	Agree @ IDL	1.06E-04	1.06E-04	Agree @ IDL	1.79E-04	1.79E-04	Within 2
Beryllium	< 0.00017	1.90E-06	1.90E-06	Agree @ IDL	9.43E-07	9.43E-07	Agree @ IDL	1.54E-06	1.54E-06	Agree @ IDL
Cadmium	< 0.0013	1.06E-03	1.06E-03	Agree @ IDL	7.77E-04	7.77E-04	Agree @ IDL	1.01E-03	1.01E-03	Agree @ IDL
Chromium, Total	1.43E-03	2.43E-03	3.00E-03	> 2	3.77E-03	4.34E-03	> 2	1.29E-02	1.35E-02	> 2
Total Fluorides	NM	0.1	NA	NA	0.2	NA	NA	0.3	NA	NA
Nickel	< 0.0033	4.99E-04	4.99E-04	Within 2	6.86E-04	6.86E-04	Within 2	2.24E-03	2.24E-03	Within 2
Phosphorus	< 0.2	0.1	0.1	Agree @ IDL	0.1	0.1	Agree @ IDL	0.3	0.3	Within 2
Lead-210	2.75E-03	7.17E-05	3.49E-03	Within 2	7.86E-05	3.50E-03	Within 2	1.07E-04	3.53E-03	Within 2
Polonium-210	2.45E-03	3.34E-03	3.34E-03	Within 2	3.84E-03	3.84E-03	Within 2	4.54E-03	4.54E-03	Within 2
Radium-226	< 0.0005	3.58E-05	3.58E-05	Agree @ IDL	4.93E-05	4.93E-05	Agree @ IDL	9.98E-05	9.98E-05	Agree @ IDL
Thorium-230	< 0.000035	2.91E-05	2.91E-05	Agree @ IDL	3.88E-05	3.88E-05	Within 2	7.95E-05	7.95E-05	> 2
U-238	< 1.59E-06	1.99E-05	1.99E-05	> 2	2.94E-05	2.94E-05	> 2	6.48E-05	6.48E-05	> 2

Notes:
"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable

Performance = Model Performance:
Within 2 = Modeled values are within a factor of 2 monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-3 (continued)
Comparison of Monitored and Modeled Concentrations or Activities for January 6, 1994 (μg/m³ or pCi/m³)

Site 5										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	1.0	0.0	1.0	Within 2	0.0	1.0	Within 2	0.0	1.0	Within 2
TSP	4.0	0.0	4.0	Within 2	0.0	4.0	Within 2	0.0	4.0	Within 2
Arsenic	< 0.00017	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Beryllium	< 0.00017	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Cadmium	1.34E-03	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Chromium, Total	7.90E-04	0.00E+00	5.70E-04	Within 2	0.00E+00	5.70E-04	Within 2	0.00E+00	5.70E-04	Within 2
Total Fluorides	NM	0.0	NA	NA	0.0	NA	NA	0.0	NA	NA
Nickel	< 0.0033	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Phosphorus	< 0.2	0.0	0.0	Agree @ IDL	0.0	0.0	Agree @ IDL	0.0	0.0	Agree @ IDL
Lead-210	2.90E-03	0.00E+00	3.42E-03	Within 2	0.00E+00	3.42E-03	Within 2	0.00E+00	3.42E-03	Within 2
Polonium-210	2.10E-03	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Radium-226	< 0.0005	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Thorium-230	< 0.000035	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
U-238	< 1.59E-06	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL

Site 7										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	1.6	0.4	1.4	Within 2	1.7	2.7	Within 2	3.0	4.0	> 2
TSP	3.4	0.7	4.7	Within 2	3.2	7.2	Within 2	5.7	9.7	> 2
Arsenic	< 0.00017	5.79E-06	5.79E-06	Agree @ IDL	4.45E-05	4.45E-05	Agree @ IDL	1.02E-04	1.02E-04	Agree @ IDL
Beryllium	< 0.00017	3.49E-07	3.49E-07	Agree @ IDL	6.33E-07	6.33E-07	Agree @ IDL	1.05E-06	1.05E-06	Agree @ IDL
Cadmium	< 0.0013	1.11E-04	1.11E-04	Agree @ IDL	2.97E-04	2.97E-04	Agree @ IDL	5.50E-04	5.50E-04	Agree @ IDL
Chromium, Total	7.90E-04	2.36E-04	8.06E-04	Within 2	1.93E-03	2.50E-03	> 2	5.94E-03	6.51E-03	> 2
Total Fluorides	NM	3.19E-03	NA	NA	0.1	NA	NA	0.2	NA	NA
Nickel	< 0.0033	6.59E-05	6.59E-05	Agree @ IDL	3.57E-04	3.57E-04	Agree @ IDL	1.02E-03	1.02E-03	Agree @ IDL
Phosphorus	< 0.2	0.01	0.01	Agree @ IDL	0.1	0.1	Agree @ IDL	0.1	0.1	Agree @ IDL
Lead-210	2.20E-03	2.07E-05	3.44E-03	Within 2	3.63E-05	3.46E-03	Within 2	5.88E-05	3.48E-03	Within 2
Polonium-210	< 0.00037	2.17E-05	2.17E-05	Agree @ IDL	6.99E-05	6.99E-05	Agree @ IDL	1.54E-04	1.54E-04	Agree @ IDL
Radium-226	< 0.0005	9.12E-06	9.12E-06	Agree @ IDL	3.30E-05	3.30E-05	Agree @ IDL	6.60E-05	6.60E-05	Agree @ IDL
Thorium-230	< 0.000035	7.43E-06	7.43E-06	Agree @ IDL	2.89E-05	2.89E-05	Agree @ IDL	5.52E-05	5.52E-05	Agree @ IDL
U-238	< 1.59E-06	3.31E-06	3.31E-06	> 2	1.33E-05	1.33E-05	> 2	3.62E-05	3.62E-05	> 2

Notes:
"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable

Performance = Model Performance:
Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-4
Comparison of Monitored and Modeled Concentrations or Activities for June 7, 1994 (μg/m³ or pCi/m³)

Site 1

Constituent	Observed	Sept 1994 Model (A) Prediction	Sept 1994 Model A+Background	Sept 1994 Model Performance	Revised Base Inventory (B) Predicted	Revised Base Inventory B+Background	Revised Base Inventory Performance	Case Study Confirmation (C) Prediction	Case Study Confirmation C+Background	Case Study Confirmation Performance
PM_{10}	10.0	15.5	21.5	> 2	15.8	21.8	> 2	7.8	13.8	Within 2
TSP	36.6	29.5	48.5	Within 2	27.7	46.7	Within 2	12.0	31.0	Within 2
Arsenic	< 0.00017	4.76E-04	4.76E-04	> 2	5.64E-04	5.64E-04	> 2	1.33E-04	1.33E-04	Agree @ IDL
Beryllium	NM	1.08E-05	NA	NA	3.71E-06	NA	NA	8.49E-07	NA	NA
Cadmium	1.46E-03	8.35E-03	8.35E-03	> 2	5.86E-03	5.86E-03	> 2	1.08E-03	1.08E-03	Within 2
Chromium, Total	< 0.00017	1.70E-02	1.70E-02	> 2	1.53E-02	1.53E-02	> 2	4.47E-03	4.47E-03	> 2
Total Fluorides	NM	1.1	NA	NA	1.0	NA	NA	0.6	NA	NA
Nickel	NM	3.45E-03	NA	NA	3.07E-03	NA	NA	8.61E-04	NA	NA
Phosphorus	0.8	1.1	1.1	Within 2	0.9	0.9	Within 2	0.2	0.2	< 2
Lead-210	< 0.00057	1.96E-04	2.53E-03	> 2	2.95E-04	2.63E-03	> 2	1.38E-04	2.47E-03	> 2
Polonium-210	< 0.00037	3.13E-02	3.13E-02	> 2	3.84E-02	3.84E-02	> 2	1.61E-04	1.61E-04	< 2
Radium-226	< 0.0005	1.50E-05	1.50E-05	Agree @ IDL	1.77E-04	1.77E-04	Agree @ IDL	6.21E-05	6.21E-05	Agree @ IDL
Thorium-230	< 0.000035	2.03E-04	2.03E-04	> 2	2.20E-04	2.20E-04	> 2	1.05E-04	1.05E-04	> 2
U-238	1.23E-04	1.61E-04	1.61E-04	Within 2	1.81E-04	1.81E-04	Within 2	8.12E-05	8.12E-05	Within 2

Site 2

Constituent	Observed	Sept 1994 Model (A) Prediction	Sept 1994 Model A+Background	Sept 1994 Model Performance	Revised Base Inventory (B) Predicted	Revised Base Inventory B+Background	Revised Base Inventory Performance	Case Study Confirmation (C) Prediction	Case Study Confirmation C+Background	Case Study Confirmation Performance
PM_{10}	19.3	52.8	58.8	> 2	67.8	73.8	> 2	20.0	26.0	Within 2
TSP	80.1	123.0	142.0	Within 2	136.0	155.0	Within 2	41.3	60.3	Within 2
Arsenic	3.39E-04	1.77E-03	1.77E-03	> 2	2.98E-03	2.98E-03	> 2	4.62E-04	4.62E-04	Within 2
Beryllium	NM	5.06E-05	NA	NA	2.13E-05	NA	NA	3.33E-06	NA	NA
Cadmium	5.23E-03	3.11E-02	3.11E-02	> 2	2.76E-02	2.76E-02	> 2	2.72E-03	2.72E-03	Within 2
Chromium, Total	5.07E-03	8.66E-02	8.66E-02	> 2	1.00E-01	1.00E-01	> 2	2.41E-02	2.41E-02	> 2
Total Fluorides	NM	2.0	NA	NA	3.1	NA	NA	0.8	NA	NA
Nickel	NM	1.65E-02	NA	NA	1.92E-02	NA	NA	4.08E-03	NA	NA
Phosphorus	2.0	4.1	4.1	> 2	4.4	4.4	> 2	0.7	0.7	< 2
Lead-210	< 0.00057	7.08E-04	3.04E-03	> 2	1.26E-03	3.59E-03	> 2	3.90E-04	2.72E-03	> 2
Polonium-210	5.07E-03	1.52E-01	1.52E-01	> 2	1.97E-01	1.97E-01	> 2	6.10E-04	6.10E-04	< 2
Radium-226	< 0.0005	6.96E-04	6.96E-04	Within 2	9.12E-04	9.12E-04	Within 2	2.32E-04	2.32E-04	Agree @ IDL
Thorium-230	< 0.000035	5.73E-04	5.73E-04	> 2	7.36E-04	7.36E-04	> 2	4.13E-04	4.13E-04	> 2
U-238	1.15E-04	5.66E-04	5.66E-04	> 2	7.21E-04	7.21E-04	> 2	2.36E-04	2.36E-04	Within 2

Site 3

Constituent	Observed	Sept 1994 Model (A) Prediction	Sept 1994 Model A+Background	Sept 1994 Model Performance	Revised Base Inventory (B) Predicted	Revised Base Inventory B+Background	Revised Base Inventory Performance	Case Study Confirmation (C) Prediction	Case Study Confirmation C+Background	Case Study Confirmation Performance
PM_{10}	6.0	4.5	10.5	Within 2	3.2	9.2	Within 2	1.3	7.3	Within 2
TSP	43.5	8.4	27.4	Within 2	5.5	24.5	Within 2	2.0	21.0	< 2
Arsenic	< 0.00017	1.59E-04	1.59E-04	Within 2	1.34E-04	1.34E-04	Within 2	2.52E-05	2.52E-05	Agree @ IDL
Beryllium	NM	4.66E-06	NA	NA	1.06E-06	NA	NA	1.67E-07	NA	NA
Cadmium	< 0.0013	3.49E-03	3.49E-03	> 2	1.84E-03	1.84E-03	Within 2	1.96E-04	1.96E-04	Within 2
Chromium, Total	< 0.00017	5.02E-03	5.02E-03	> 2	3.07E-03	3.07E-03	> 2	7.43E-04	7.43E-04	> 2
Total Fluorides	NM	0.2	NA	NA	0.6	NA	NA	0.1	NA	NA
Nickel	NM	1.06E-03	NA	NA	6.27E-04	NA	NA	1.40E-04	NA	NA
Phosphorus	< 0.2	0.4	0.4	Within 2	0.2	0.2	Within 2	0.0	0.0	Agree @ IDL
Lead-210	< 0.00057	6.76E-05	2.40E-03	> 2	6.17E-05	2.39E-03	> 2	2.73E-05	2.36E-03	> 2
Polonium-210	2.85E-03	2.06E-02	2.06E-02	> 2	1.83E-02	1.83E-02	> 2	3.08E-05	3.08E-05	Within 2
Radium-226	< 0.0005	4.93E-05	4.93E-05	Agree @ IDL	4.49E-05	4.49E-05	Agree @ IDL	1.46E-05	1.46E-05	Agree @ IDL
Thorium-230	< 0.000035	5.76E-05	5.76E-05	Within 2	4.46E-05	4.46E-05	Within 2	1.59E-05	1.59E-05	Agree @ IDL
U-238	< 1.59E-6	4.62E-05	4.62E-05	> 2	3.88E-05	3.88E-05	> 2	1.25E-05	1.25E-05	> 2

Site 4

Constituent	Observed	Sept 1994 Model (A) Prediction	Sept 1994 Model A+Background	Sept 1994 Model Performance	Revised Base Inventory (B) Predicted	Revised Base Inventory B+Background	Revised Base Inventory Performance	Case Study Confirmation (C) Prediction	Case Study Confirmation C+Background	Case Study Confirmation Performance
PM_{10}	11.2	6.7	12.7	Within 2	4.9	10.9	Within 2	1.9	7.9	Within 2
TSP	56.6	13.1	32.1	Within 2	8.7	27.7	Within 2	3.1	22.1	< 2
Arsenic	< 0.00017	2.75E-04	2.75E-04	Within 2	2.00E-04	2.00E-04	Within 2	5.33E-05	5.33E-05	Agree @ IDL
Beryllium	NM	7.54E-06	NA	NA	1.83E-06	NA	NA	3.89E-07	NA	NA
Cadmium	< 0.0013	5.54E-03	5.54E-03	> 2	2.55E-03	2.55E-03	Within 2	3.80E-04	3.80E-04	< 2
Chromium, Total	< 0.00017	7.81E-03	7.81E-03	> 2	5.43E-03	5.43E-03	> 2	1.70E-03	1.70E-03	Agree @ IDL
Total Fluorides	NM	0.3	NA	NA	0.7	NA	NA	0.2	NA	NA
Nickel	NM	1.64E-03	NA	NA	1.06E-03	NA	NA	3.02E-04	NA	NA
Phosphorus	< 0.2	0.6	0.6	> 2	0.3	0.3	Within 2	0.1	0.1	Within 2
Lead-210	< 0.00057	1.18E-04	2.45E-03	> 2	1.10E-04	2.44E-03	> 2	5.10E-05	2.38E-03	> 2
Polonium-210	2.86E-03	3.39E-02	3.39E-02	> 2	2.72E-02	2.72E-02	> 2	6.40E-05	6.40E-05	< 2
Radium-226	< 0.0005	8.30E-05	8.30E-05	Agree @ IDL	7.80E-05	7.80E-05	Agree @ IDL	2.75E-05	2.75E-05	Agree @ IDL
Thorium-230	< 0.000035	8.45E-05	8.45E-05	> 2	6.76E-05	6.76E-05	Within 2	2.31E-05	2.31E-05	Within 2
U-238	< 1.59E-06	6.88E-05	6.88E-05	> 2	5.76E-05	5.76E-05	> 2	1.80E-05	1.80E-05	> 2

Notes:

"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable
*Monitored values are particulate fluorides only

Performance = Model Performance:

Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-4 (continued)
Comparison of Monitored and Modeled Concentrations or Activities for June 7, 1994 (μg/m³ or pCi/m³)

Site 5										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	3.3	0.0	6.0	Within 2	0.0	6.0	Within 2	0.0	6.0	Within 2
TSP	20.0	0.0	19.0	Within 2	0.0	19.0	Within 2	0.0	19.0	Within 2
Arsenic	< 0.00017	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Beryllium	NM	0.00E+00	NA	NA	0.00E+00	NA	NA	0.00E+00	NA	NA
Cadmium	< 0.0013	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Chromium, Total	< 0.0007	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Total Fluorides	NM	0.0	NA	NA	0.0	NA	NA	0.0	NA	NA
Nickel	NM	0.00E+00	NA	NA	0.00E+00	NA	NA	0.00E+00	NA	NA
Phosphorus	< 0.2	0.0	0.0	Agree @ IDL	0.0	0.0	Agree @ IDL	0.0	0.0	Agree @ IDL
Lead-210	< 0.00057	0.00E+00	2.33E-03	Agree @ IDL	0.00E+00	2.33E-03	Agree @ IDL	0.00E+00	2.33E-03	Agree @ IDL
Polonium-210	3.00E-03	0.00E+00	0.00E+00	< 2	0.00E+00	0.00E+00	< 2	0.00E+00	0.00E+00	< 2
Radium-226	< 0.0005	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Thorium-230	< 0.000035	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
U-238	< 1.59E-6	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL

Site 7										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	6.4	1.8	7.8	Within 2	3.1	9.1	Within 2	1.4	7.4	Within 2
TSP	21.3	3.6	22.6	Within 2	5.9	24.9	Within 2	2.5	21.5	Within 2
Arsenic	< 0.00017	5.52E-05	5.52E-05	Agree @ IDL	9.50E-05	9.50E-05	Agree @ IDL	4.25E-05	4.25E-05	Agree @ IDL
Beryllium	NM	1.20E-06	NA	NA	1.08E-06	NA	NA	4.60E-07	NA	NA
Cadmium	< 0.0013	6.35E-04	6.35E-04	Agree @ IDL	6.15E-04	6.15E-04	Agree @ IDL	2.83E-04	2.83E-04	Agree @ IDL
Chromium, Total	< 0.0007	1.38E-03	1.38E-03	> 2	3.75E-03	3.75E-03	> 2	1.69E-03	1.69E-03	> 2
Total Fluorides	NM	0.03	NA	NA	0.2	NA	NA	0.1	NA	NA
Nickel	NM	2.92E-04	NA	NA	6.79E-04	NA	NA	2.87E-04	NA	NA
Phosphorus	< 0.2	0.04	0.04	Agree @ IDL	0.1	0.1	Within 2	4.44E-03	4.44E-03	Agree @ IDL
Lead-210	< 0.00057	6.66E-05	2.40E-03	> 2	7.40E-05	2.40E-03	> 2	3.33E-05	2.36E-03	> 2
Polonium-210	1.98E-03	6.73E-05	6.73E-05	Within 2	1.28E-04	1.28E-04	Within 2	6.01E-05	6.01E-05	Within 2
Radium-226	< 0.0005	2.85E-05	2.85E-05	Agree @ IDL	5.75E-05	5.75E-05	Agree @ IDL	2.70E-05	2.70E-05	Agree @ IDL
Thorium-230	< 0.000035	2.23E-05	2.23E-05	Agree @ IDL	4.81E-05	4.81E-05	Within 2	2.24E-05	2.24E-05	Agree @ IDL
U-238	< 1.59E-6	1.29E-05	1.29E-05	> 2	2.67E-05	2.67E-05	> 2	1.22E-05	1.22E-05	> 2

Notes:
"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable

Performance = Model Performance:
Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-5
Comparison of Monitored and Modeled Concentrations or Activities for January 20, 1994 ($\mu g/m^3$ or pCi/m^3)

Site 1

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	49.4	0.0	21.0	< 2	0.0	21.0	< 2	0.0	21.0	< 2
TSP	89.5	0.0	26.0	< 2	0.0	26.0	< 2	0.0	26.0	< 2
Arsenic	7.48E-04	3.00E-10	6.60E-04	Within 2	1.76E-08	6.60E-04	Within 2	1.35E-08	6.60E-04	Within 2
Beryllium	< 1.67E-04	5.90E-11	5.90E-11	Agree @ IDL	9.71E-11	9.71E-11	Agree @ IDL	6.96E-11	6.96E-11	Agree @ IDL
Cadmium	< 1.33E-03	2.13E-09	2.13E-09	Agree @ IDL	4.22E-08	4.22E-08	Agree @ IDL	3.07E-08	3.07E-08	Agree @ IDL
Chromium, Total	2.86E-03	1.83E-07	1.83E-07	< 2	7.10E-07	7.10E-07	< 2	3.85E-07	3.85E-07	< 2
Total Fluorides	2.8	0.0	1.6	Within 2	0.0	1.6	Within 2	0.0	1.6	Within 2
Nickel	< 3.33E-03	3.28E-08	3.28E-08	Agree @ IDL	1.23E-07	1.23E-07	Agree @ IDL	7.06E-08	7.06E-08	Agree @ IDL
Phosphorus	0.86	7.3E-06	7.3E-06	< 2	3.2E-05	3.2E-05	< 2	2.5E-05	2.5E-05	< 2
Lead-210	-	1.20E-09	5.17E-02	NA	5.27E-09	5.17E-02	NA	4.27E-09	5.17E-02	NA
Polonium-210	-	3.72E-09	9.90E-03	NA	1.35E-08	9.90E-03	NA	6.78E-09	9.90E-03	NA
Radium-226	-	1.48E-09	1.48E-09	NA	5.29E-09	5.29E-09	NA	2.65E-09	2.65E-09	NA
Thorium-230	-	1.23E-09	1.23E-09	NA	5.44E-09	5.44E-09	NA	3.37E-09	3.37E-09	NA
U-238	-	1.04E-09	1.04E-09	NA	4.28E-09	4.28E-09	NA	2.48E-09	2.48E-09	NA

Site 2

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	A+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	72.9	5.6	26.6	< 2	16.9	37.9	Within 2	16.9	37.9	Within 2
TSP	173.2	0.0	26.0	< 2	11.1	37.1	< 2	9.1	35.1	< 2
Arsenic	1.38E-03	1.01E-05	6.70E-04	Within 2	2.19E-04	8.79E-04	Within 2	1.12E-04	7.72E-04	Within 2
Beryllium	< 1.67E-04	1.68E-07	1.68E-07	Agree @ IDL	1.78E-06	1.78E-06	Agree @ IDL	9.11E-07	9.11E-07	Agree @ IDL
Cadmium	3.48E-03	5.07E-04	5.07E-04	< 2	2.31E-03	2.31E-03	Within 2	2.31E-03	2.31E-03	Within 2
Chromium, Total	1.16E-02	1.50E-03	1.50E-03	< 2	1.76E-02	1.76E-02	Within 2	9.02E-03	9.02E-03	Within 2
Total Fluorides	4.0	0.7	2.3	Within 2	1.8	3.4	Within 2	1.8	3.4	Within 2
Nickel	4.15E-03	4.09E-04	4.09E-04	Within 2	3.12E-03	3.12E-03	Within 2	1.70E-03	1.70E-03	Within 2
Phosphorus	2.0	1.9E-01	1.9E-01	< 2	7.3E-01	7.3E-01	< 2	7.3E-01	7.3E-01	< 2
Lead-210	5.44E-02	5.33E-06	5.17E-02	Within 2	8.89E-05	5.18E-02	Within 2	4.44E-05	5.17E-02	Within 2
Polonium-210	1.89E-02	2.62E-05	9.93E-03	Within 2	3.61E-04	1.03E-02	Within 2	1.89E-04	1.01E-02	Within 2
Radium-226	< 0.0005	1.62E-05	1.62E-05	Agree @ IDL	1.49E-04	1.49E-04	Agree @ IDL	8.06E-05	8.06E-05	Agree @ IDL
Thorium-230	2.41E-04	1.43E-04	1.43E-04	Within 2	6.45E-04	6.45E-04	> 2	6.45E-04	6.45E-04	> 2
U-238	3.23E-04	7.94E-05	7.94E-05	< 2	3.02E-04	3.02E-04	Within 2	2.93E-04	2.93E-04	Within 2

Site 3

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	42.2	0.0	21.0	Within 2	0.0	21.0	Within 2	0.0	21.0	Within 2
TSP	78.8	0.0	26.0	< 2	0.0	26.0	< 2	0.0	26.0	< 2
Arsenic	9.40E-04	0.00E+00	6.60E-04	Within 2	0.00E+00	6.60E-04	Within 2	0.00E+00	6.60E-04	Within 2
Beryllium	< 1.67E-04	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Cadmium	< 1.33E-03	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Chromium, Total	< 1.67E-04	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Total Fluorides	NM	0.0	NA	NA	0.0	NA	NA	0.0	NA	NA
Nickel	3.70E-03	0.00E+00	0.00E+00	Within 2	0.00E+00	0.00E+00	Within 2	0.00E+00	0.00E+00	Within 2
Phosphorus	< 0.2	0.0	0.0E+00	Agree @ IDL	0.0	0.0E+00	Agree @ IDL	0.0	0.0E+00	Agree @ IDL
Lead-210	4.95E-02	0.00E+00	5.17E-02	Within 2	0.00E+00	5.17E-02	Within 2	0.00E+00	5.17E-02	Within 2
Polonium-210	1.20E-02	0.00E+00	9.90E-03	Within 2	0.00E+00	9.90E-03	Within 2	0.00E+00	9.90E-03	Within 2
Radium-226	< 0.0005	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
Thorium-230	< 0.000035	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL
U-238	< 1.59E-06	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL	0.00E+00	0.00E+00	Agree @ IDL

Site 4

		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	56.6	5.4	26.4	< 2	4.5	25.5	< 2	4.3	25.3	< 2
TSP	103.0	8.0	34.0	< 2	5.6	31.6	< 2	5.9	31.9	< 2
Arsenic	1.02E-03	1.26E-04	7.86E-04	Within 2	1.17E-04	7.77E-04	Within 2	1.01E-04	7.61E-04	Within 2
Beryllium	< 1.67E-04	2.54E-06	2.54E-06	Agree @ IDL	7.06E-07	7.06E-07	Agree @ IDL	7.19E-07	7.19E-07	Agree @ IDL
Cadmium	< 1.33E-03	1.64E-03	1.64E-03	Within 2	8.64E-04	8.64E-04	Agree @ IDL	6.04E-04	6.04E-04	Agree @ IDL
Chromium, Total	2.64E-03	6.62E-03	6.62E-03	> 2	3.81E-03	3.81E-03	Within 2	3.07E-03	3.07E-03	Within 2
Total Fluorides	NM	0.6	NA	NA	0.4	NA	NA	0.4	NA	NA
Nickel	< 3.33E-03	1.27E-03	1.27E-03	Agree @ IDL	7.83E-04	7.83E-04	Agree @ IDL	6.80E-04	6.80E-04	Agree @ IDL
Phosphorus	< 0.2	0.3	0.3	Within 2	0.3	0.3	Within 2	0.2	0.2	Within 2
Lead-210	4.88E-02	4.45E-05	5.17E-02	Within 2	5.74E-05	5.18E-02	Within 2	6.37E-05	5.18E-02	Within 2
Polonium-210	1.35E-02	2.05E-03	1.20E-02	Within 2	3.51E-03	1.34E-02	Within 2	2.12E-03	1.20E-02	Within 2
Radium-226	< 0.0005	5.30E-05	5.30E-05	Agree @ IDL	3.86E-05	3.86E-05	Agree @ IDL	3.11E-05	3.11E-05	Agree @ IDL
Thorium-230	< 0.000035	1.00E-04	1.00E-04	> 2	8.47E-05	8.47E-05	> 2	7.89E-05	7.89E-05	> 2
U-238	< 1.59E-06	7.23E-05	7.23E-05	> 2	5.98E-05	5.98E-05	> 2	5.46E-05	5.46E-05	> 2

Notes:
"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable
- Inadequate sample material was available for lab analysis

Performance = Model Performance:
Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

Table AJ-5 (continued)
Comparison of Monitored and Modeled Concentrations or Activities for January 20, 1994 (μg/m³ or pCi/m³)

Site 5										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	56.9	6.0	27.0	< 2	4.8	25.8	< 2	3.7	24.7	< 2
TSP	101.6	10.8	36.8	< 2	6.7	32.7	< 2	6.5	32.5	< 2
Arsenic	1.07E-03	2.46E-04	9.06E-04	Within 2	2.08E-04	8.68E-04	Within 2	1.74E-04	8.34E-04	Within 2
Beryllium	< 1.67E-04	5.84E-06	5.84E-06	Agree @ IDL	1.24E-06	1.24E-06	Agree @ IDL	1.61E-06	1.61E-06	Agree @ IDL
Cadmium	3.58E-03	4.20E-03	4.20E-03	Within 2	2.45E-03	2.45E-03	Within 2	1.47E-03	1.47E-03	< 2
Chromium, Total	3.45E-03	5.75E-03	5.75E-03	Within 2	4.06E-03	4.06E-03	Within 2	3.43E-03	3.43E-03	Within 2
Total Fluorides	NM	0.2	NA	NA	0.3	NA	NA	0.2	NA	NA
Nickel	< 3.33E-03	1.21E-03	1.21E-03	Agree @ IDL	8.21E-04	8.21E-04	Agree @ IDL	7.30E-04	7.30E-04	Agree @ IDL
Phosphorus	1.7	0.4	0.4	< 2	0.2	0.2	< 2	0.2	0.2	< 2
Lead-210	4.99E-02	1.42E-04	5.18E-02	Within 2	1.41E-04	5.18E-02	Within 2	1.44E-04	5.18E-02	Within 2
Polonium-210	2.91E-02	2.22E-02	3.21E-02	Within 2	1.15E-02	2.14E-02	Within 2	1.99E-02	2.98E-02	Within 2
Radium-226	< 0.0005	6.82E-05	6.82E-05	Agree @ IDL	6.05E-05	6.05E-05	Agree @ IDL	5.66E-05	5.66E-05	Agree @ IDL
Thorium-230	< 0.000035	5.69E-05	5.69E-05	Within 2	4.77E-05	4.77E-05	Within 2	4.50E-05	4.50E-05	Within 2
U-238	7.52E-05	5.02E-05	5.02E-05	Within 2	4.43E-05	4.43E-05	Within 2	4.29E-05	4.29E-05	Within 2

Site 7										
		Sept 1994 Model			Revised Base Inventory			Case Study Confirmation		
Constituent	Observed	(A) Prediction	A+Background	Performance	(B) Predicted	B+Background	Performance	(C) Prediction	C+Background	Performance
PM_{10}	51.6	67.6	88.6	Within 2	75.3	96.3	Within 2	53.5	74.5	Within 2
TSP	74.6	132.5	158.5	> 2	124.4	150.4	> 2	104.5	130.5	Within 2
Arsenic	1.18E-03	2.58E-03	3.24E-03	> 2	3.33E-03	3.99E-03	> 2	2.48E-03	3.14E-03	> 2
Beryllium	< 1.67E-04	1.07E-04	1.07E-04	Agree @ IDL	2.85E-05	2.85E-05	Agree @ IDL	2.69E-05	2.69E-05	Agree @ IDL
Cadmium	1.47E-03	5.23E-02	5.23E-02	> 2	4.76E-02	4.76E-02	> 2	1.95E-02	1.95E-02	> 2
Chromium, Total	2.57E-03	8.23E-02	8.23E-02	> 2	7.75E-02	7.75E-02	> 2	6.19E-02	6.19E-02	> 2
Total Fluorides	3.3	3.7	5.3	Within 2	4.6	6.2	Within 2	3.9	5.5	Within 2
Nickel	< 3.33E-03	1.78E-02	1.78E-02	> 2	1.55E-02	1.55E-02	> 2	1.29E-02	1.29E-02	> 2
Phosphorus	0.9	5.4	5.4	> 2	5.1	5.1	> 2	3.3	3.3	> 2
Lead-210	4.51E-02	1.01E-03	5.27E-02	Within 2	1.75E-03	5.35E-02	Within 2	1.60E-03	5.33E-02	Within 2
Polonium-210	2.00E-02	5.73E-01	5.83E-01	> 2	6.95E-01	7.05E-01	> 2	4.38E-01	4.48E-01	> 2
Radium-226	-	9.32E-04	9.32E-04	NA	1.23E-03	1.23E-03	NA	8.81E-04	8.81E-04	NA
Thorium-230	-	8.11E-04	8.11E-04	NA	1.03E-03	1.03E-03	NA	7.32E-04	7.32E-04	NA
U-238	< 1.59E-06	7.28E-04	7.28E-04	> 2	9.36E-04	9.36E-04	> 2	6.80E-04	6.80E-04	> 2

Notes:
"< Detection Limit" - Actual value was a non-detect
NM - Not measured
NA - Not applicable
- Inadequate sample material was available for lab analysis

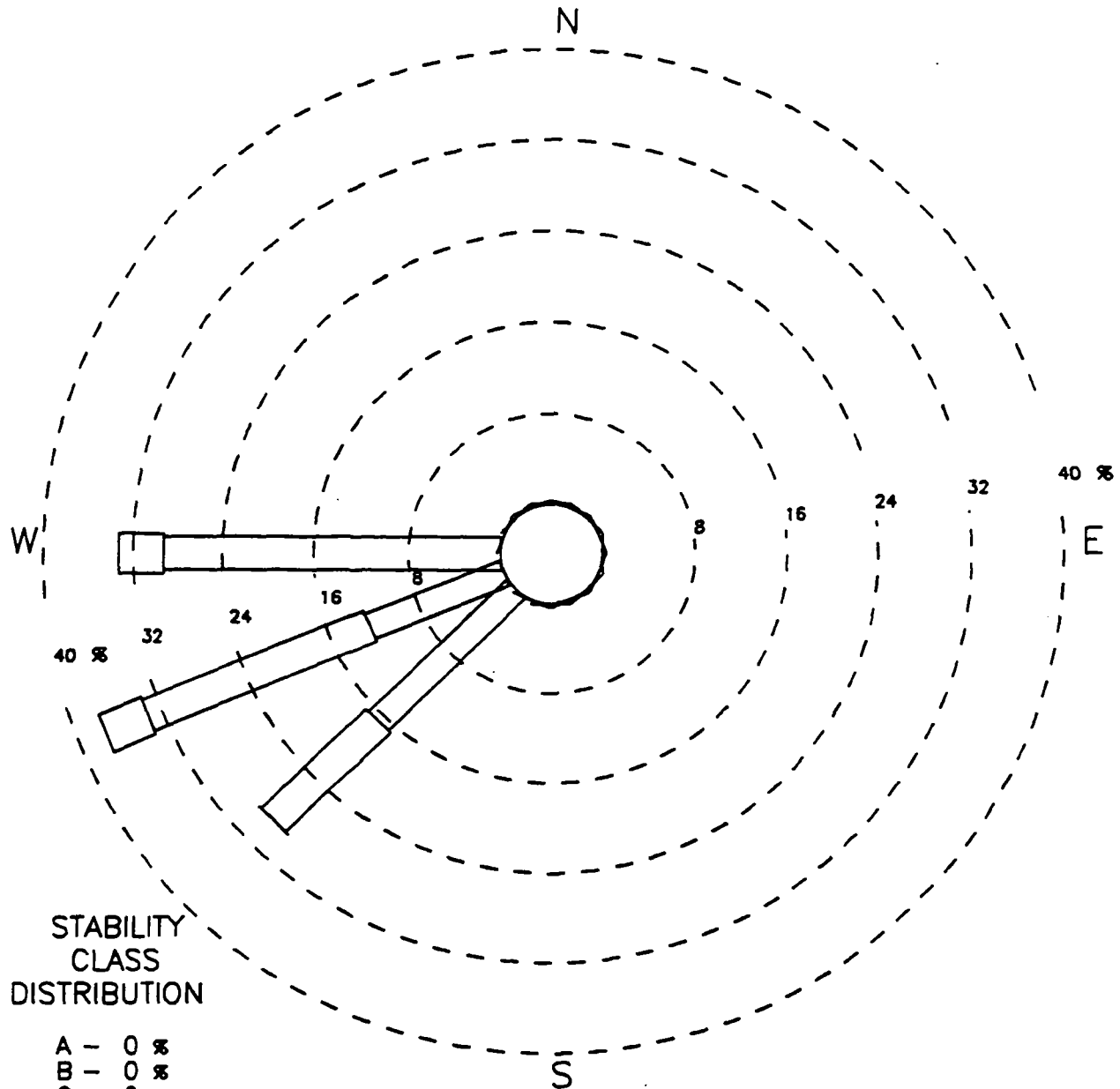
Performance = Model Performance:
Within 2 = Modeled values are within a factor of 2 of monitored values.
> 2 = Modeled value is greater than twice the monitored value.
< 2 = Modeled value is less than half the monitored value.
Agree @ IDL = Both the monitored and modeled values are below IDL.

TABLE AJ-6
SUMMARY OF MODEL PERFORMANCE USING CASE STUDY INVENTORIES

Constituent	Performance	14 April 94	24 Oct 1993 [1]	6 Jan 1994	7 June 1994	20 Jan 1994[3]
PM_{10}	Within 2	6 of 6	5 of 5	4 of 6	6 of 6	3 of 6
	< 2	0	0	1 of 6	0	3 of 6
	> 2	0	0	1 of 6	0	0
TSP	Within 2	5 of 6	6 of 6	4 of 6	4 of 6	1 of 6
	< 2	1 of 6	0	1 of 6	2 of 6	5 of 6
	> 2	0	0	1 of 6	0	0
Arsenic	Within 2	5 of 6	5 of 5	5 of 6	6 of 6	4 of 6
	< 2	0	0	0	0	1 of 6
	> 2	1 of 6	0	1 of 6	0	1 of 6
Beryllium	Within 2	NA	5 of 5	6 of 6	NA	6 of 6
	< 2	NA	0	0	NA	0
	> 2	NA	0	0	NA	0
Cadmium	Within 2	6 of 6	4 of 5	6 of 6	5 of 6	4 of 6
	<2	0	1 of 5	0	1 of 6	1 of 6
	>2	0	0	0	0	1 of 6
Chromium, Total	Within 2	1 of 6	2 of 5	4 of 6	2 of 6	4 of 6
	< 2	0	0	0	0	1 of 6
	>2	5 of 6	3 of 5	2 of 6	4 of 6	1 of 6
Total Fluorides	Within 2	2 of 3	3 of 3	NA	NA	3 of 3
	< 2	1 of 3	0	NA	NA	0
	> 2	0	0	NA	NA	0
Nickel	Within 2	NA	5 of 5	6 of 6	NA	5 of 6
	< 2	NA	0	0	NA	0
	> 2	NA	0	0	NA	1 of 6
Phosphorus	Within 2	4 of 6	2 of 5	3 of 6	4 of 6	2 of 6
	< 2	2 of 6	3 of 5	3 of 6	2 of 6	3 of 6
	> 2	0	0	0	0	1 of 6
Lead-210	Within 2	5 of 6	5 of 5	6 of 6	1 of 6	5 of 5
	< 2	0	0	0	0	0
	> 2	1 of 6	0	0	5 of 6	0
Polonium-210	Within 2	2 of 6	4 of 5	5 of 6	2 of 6	4 of 5
	< 2	0	0	1 of 6	4 of 6	0
	> 2	4 of 6	1 of 5	0	0	1 of 5
Radium-226	Within 2	5 of 6	5 of 5	6 of 6	6 of 6	4 of 4[4]
	< 2	0	0	0	0	0
	> 2	1 of 6	0	0	0	0
Thorium-230	Within 2	3 of 6	3 of 5	5 of 6	4 of 6	2 of 4[4]
	< 2	0	0	0	0	0
	> 2	3 of 6	2 of 5	1 of 6	2 of 6	2 of 4
U-238	Within 2	3 of 6	2 of 5	1 of 6	3 of 6	3 of 5
	< 2	0	0	0	0	0
	> 2	3 of 6	3 of 5	5 of 6	3 of 6	2 of 5

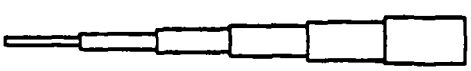
Notes: [1] PM_{10} sample on October 24, 1993 was void.
[2] Only particulate fluorides measured on June 7, 1994.
[3] Radionuclides not determined at Site 1 due to insufficient sample size.
[4] Sample size at Site 7 was insufficient to determine radium-226 and thorium-230.

Air Modeling Report
Figures for Appendix AJ



STABILITY
CLASS
DISTRIBUTION

A - 0 %
B - 0 %
C - 0 %
D - 100 %
E - 0 %
F - 0 %



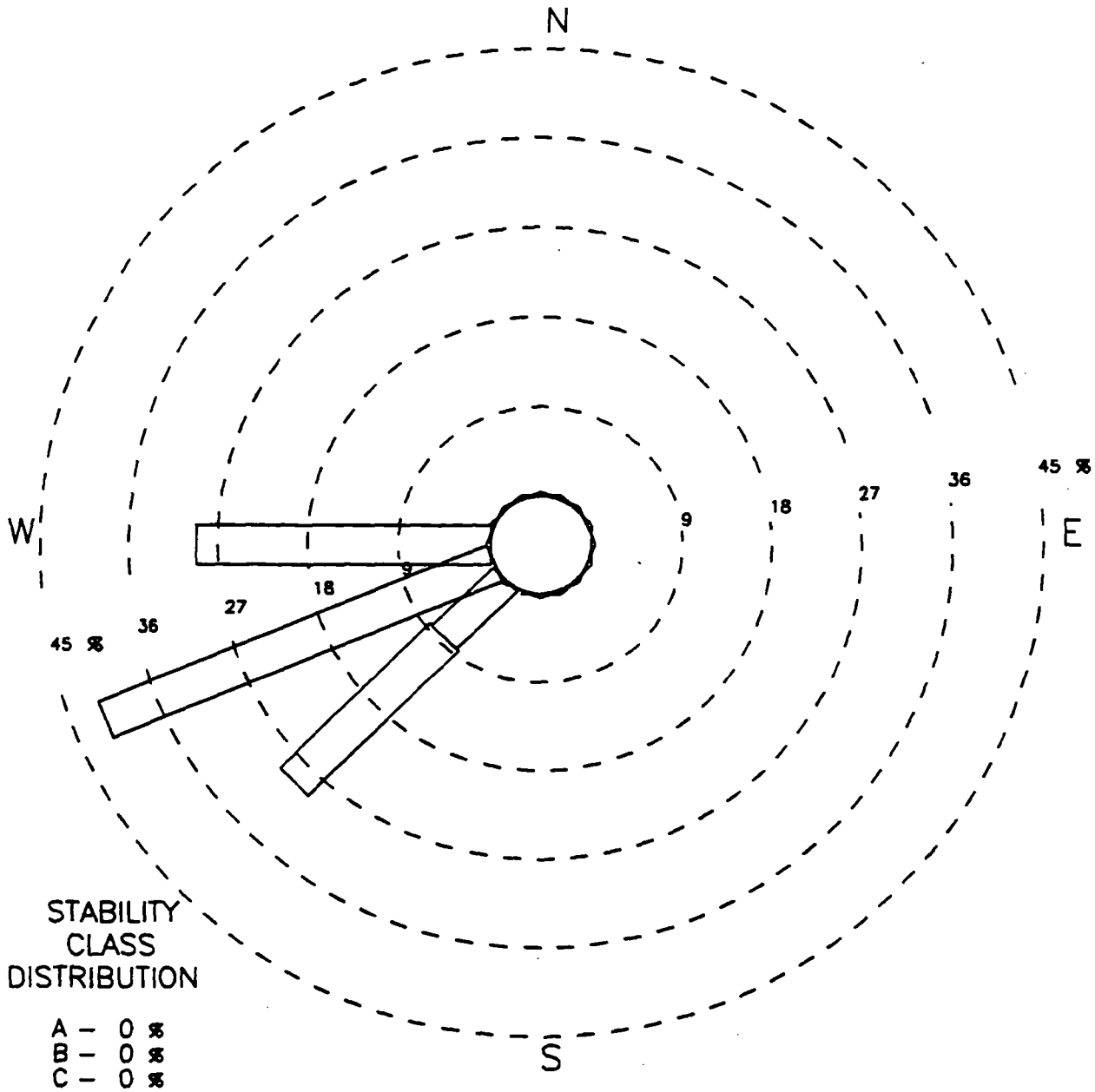
0-3	4-6	7-10	11-16	17-21	22-99
(0 %)	(0 %)	(0 %)	(29 %)	(63 %)	(8 %)

WIND SPEED SCALE (KNOTS)

NOTE - WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

Site 1 Wind Direction
April 14, 1994

Figure AJ-1



STABILITY
CLASS
DISTRIBUTION

A – 0 %
B – 0 %
C – 0 %
D – 100 %
E – 0 %
F – 0 %

0–3	4–6	7–10	11–16	17–21	22–99
(0 %)	(0 %)	(0 %)	(0 %)	(8 %)	(92 %)

WIND SPEED SCALE (KNOTS)

NOTE – WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

Site 7 Wind Direction
April 14, 1994

Figure AJ–2

Figure AJ-3 PM-10 Concentrations on April 14

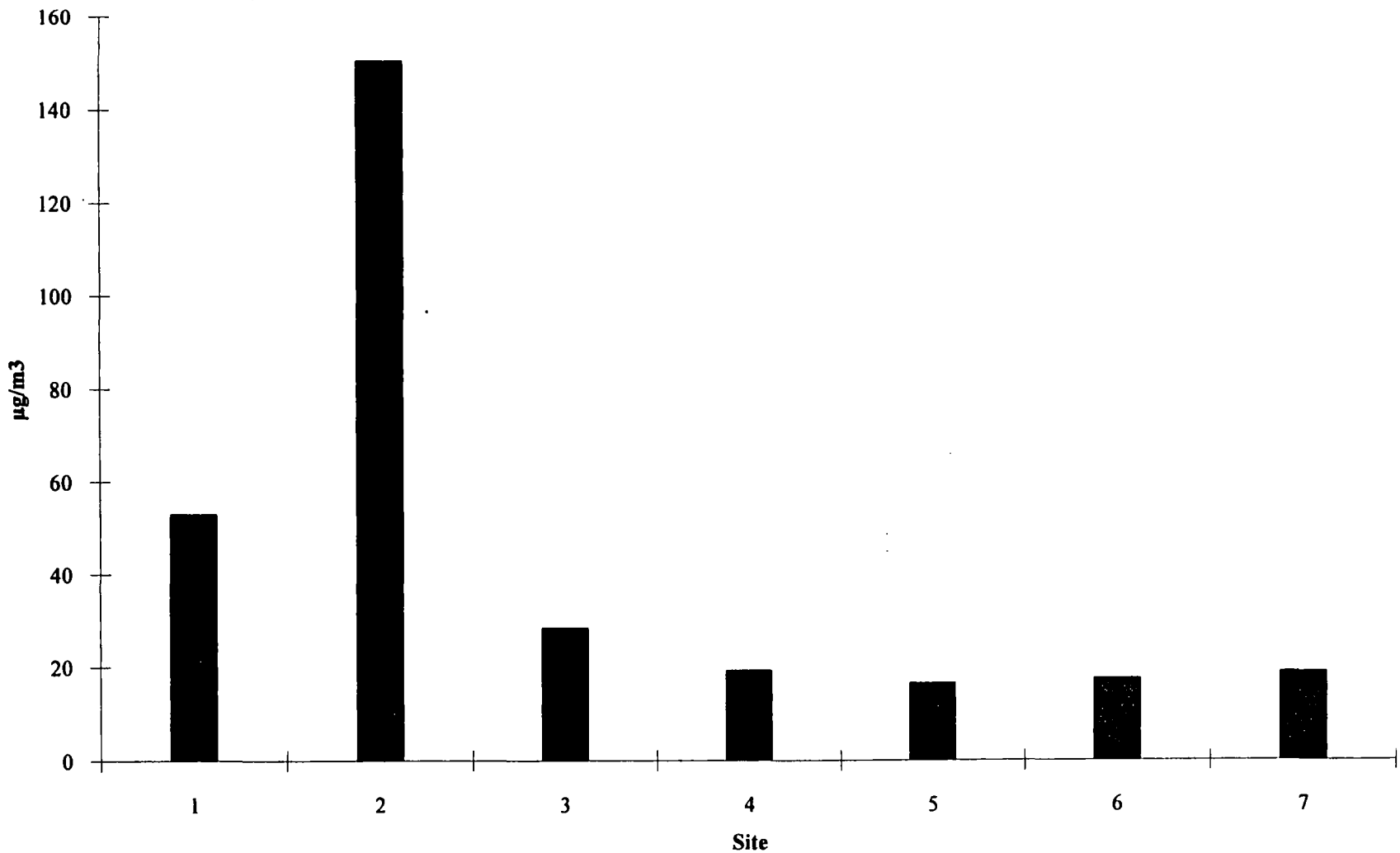
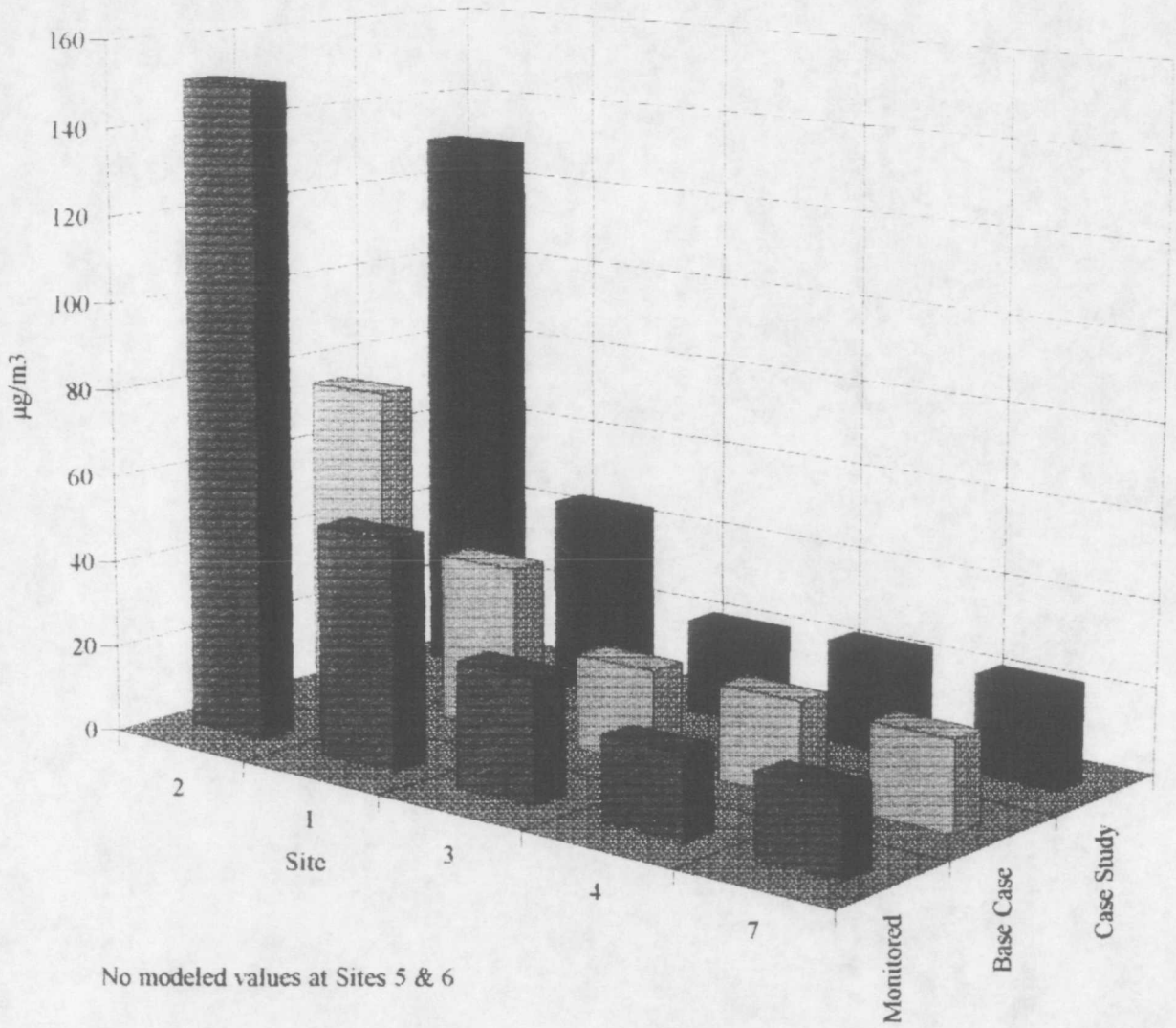
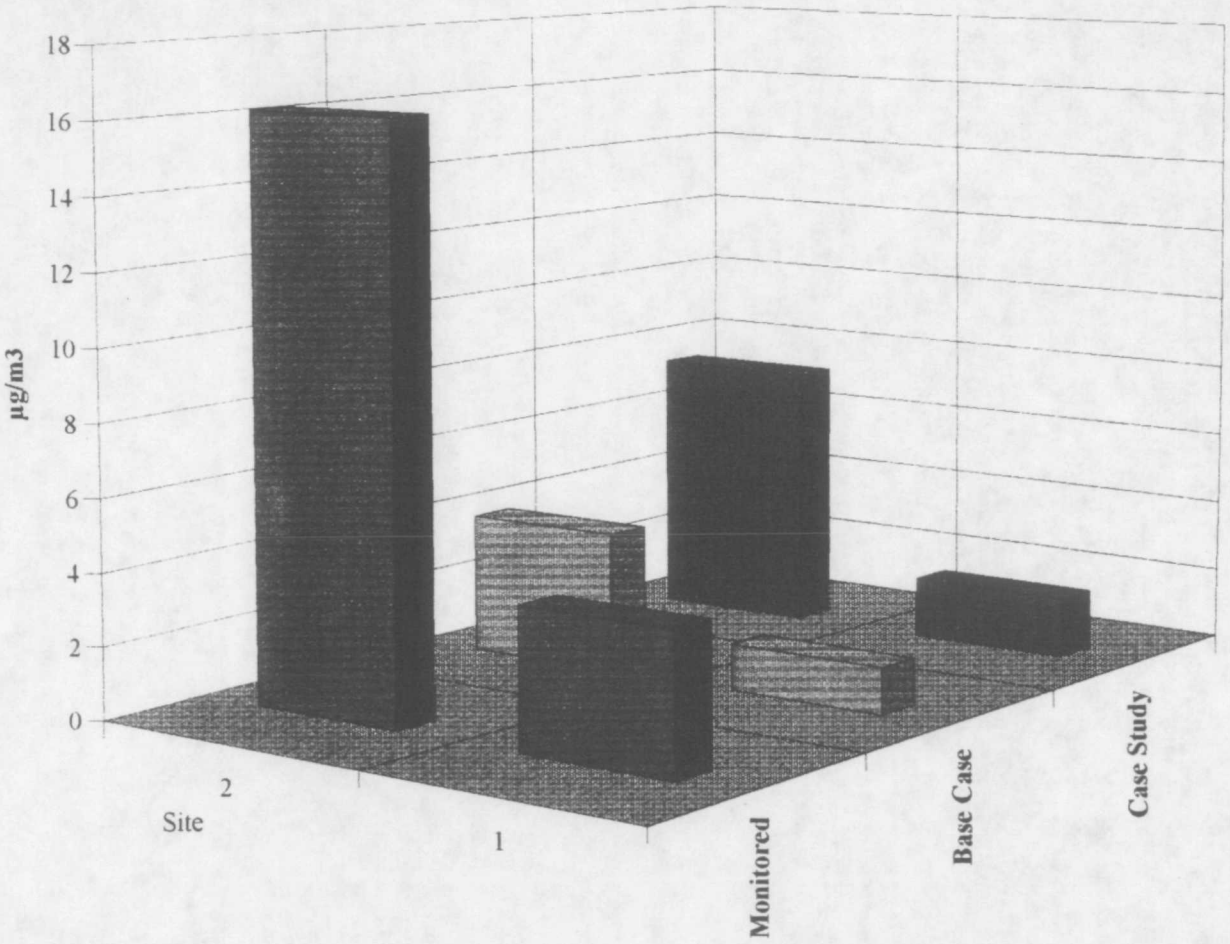


Figure AJ-4 April 14, 1994 PM-10



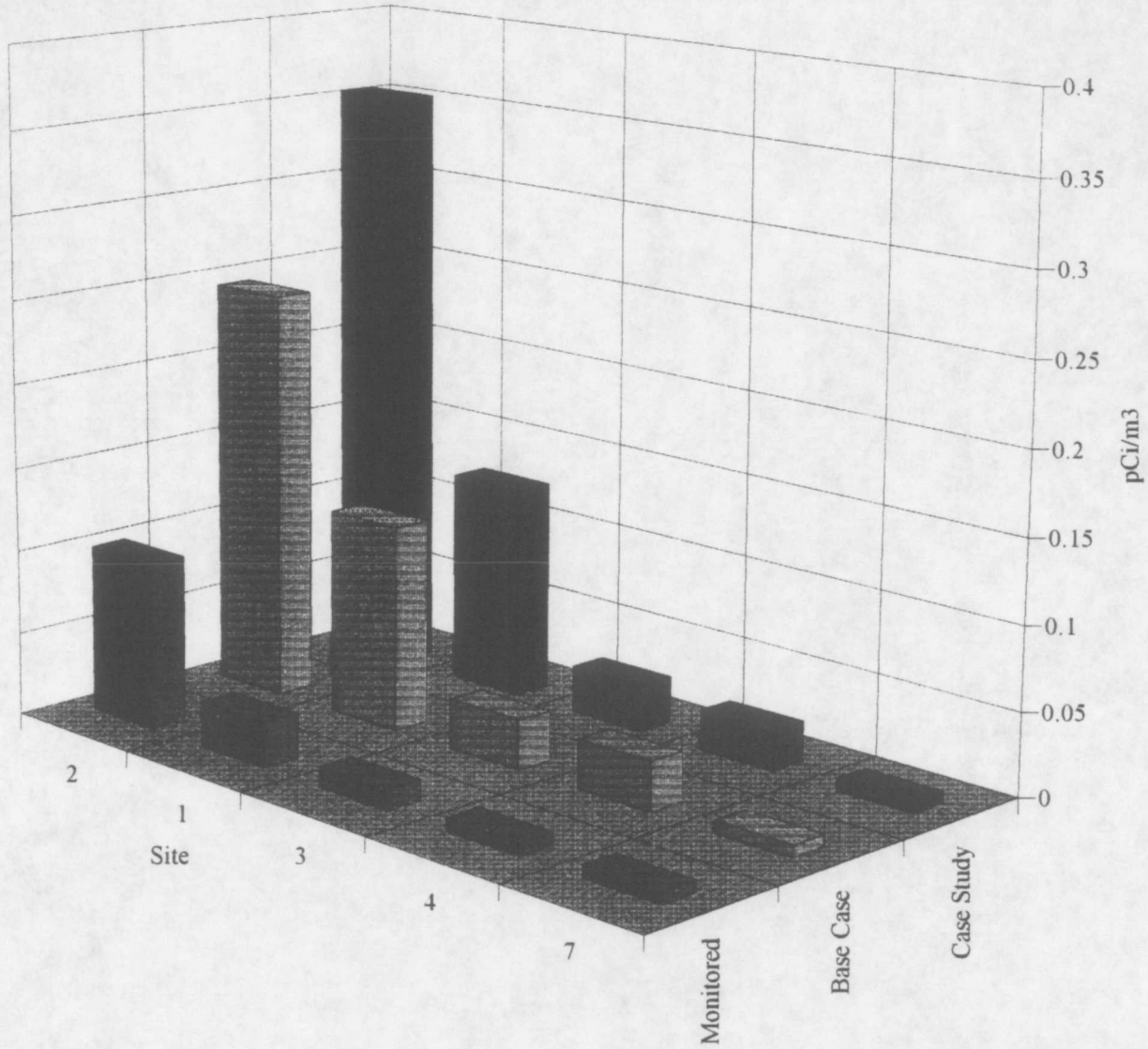
No modeled values at Sites 5 & 6

Figure AJ-5 April 14, 1994 Total Phosphorus



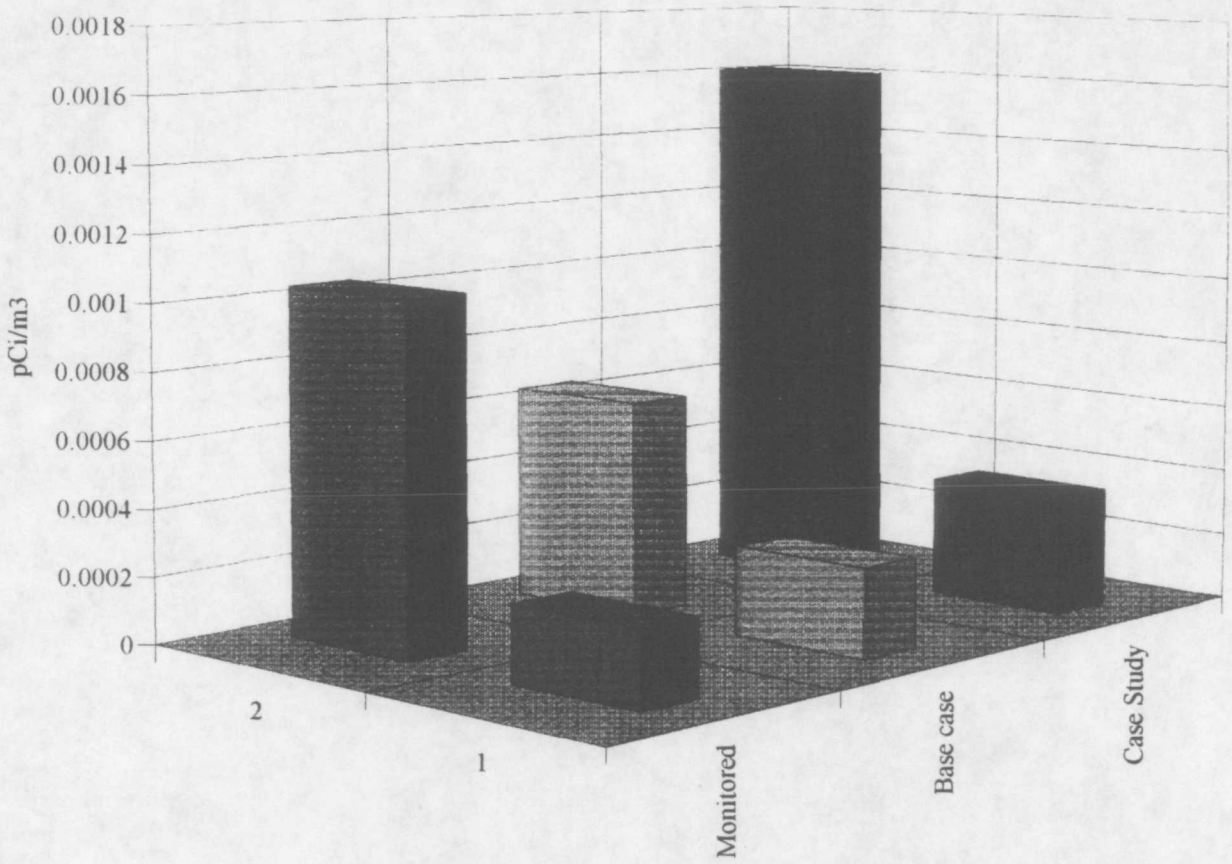
Phosphorus detected at Sites 1 and 2 only

Figure AJ-6 April 14, 1994 Polonium-210

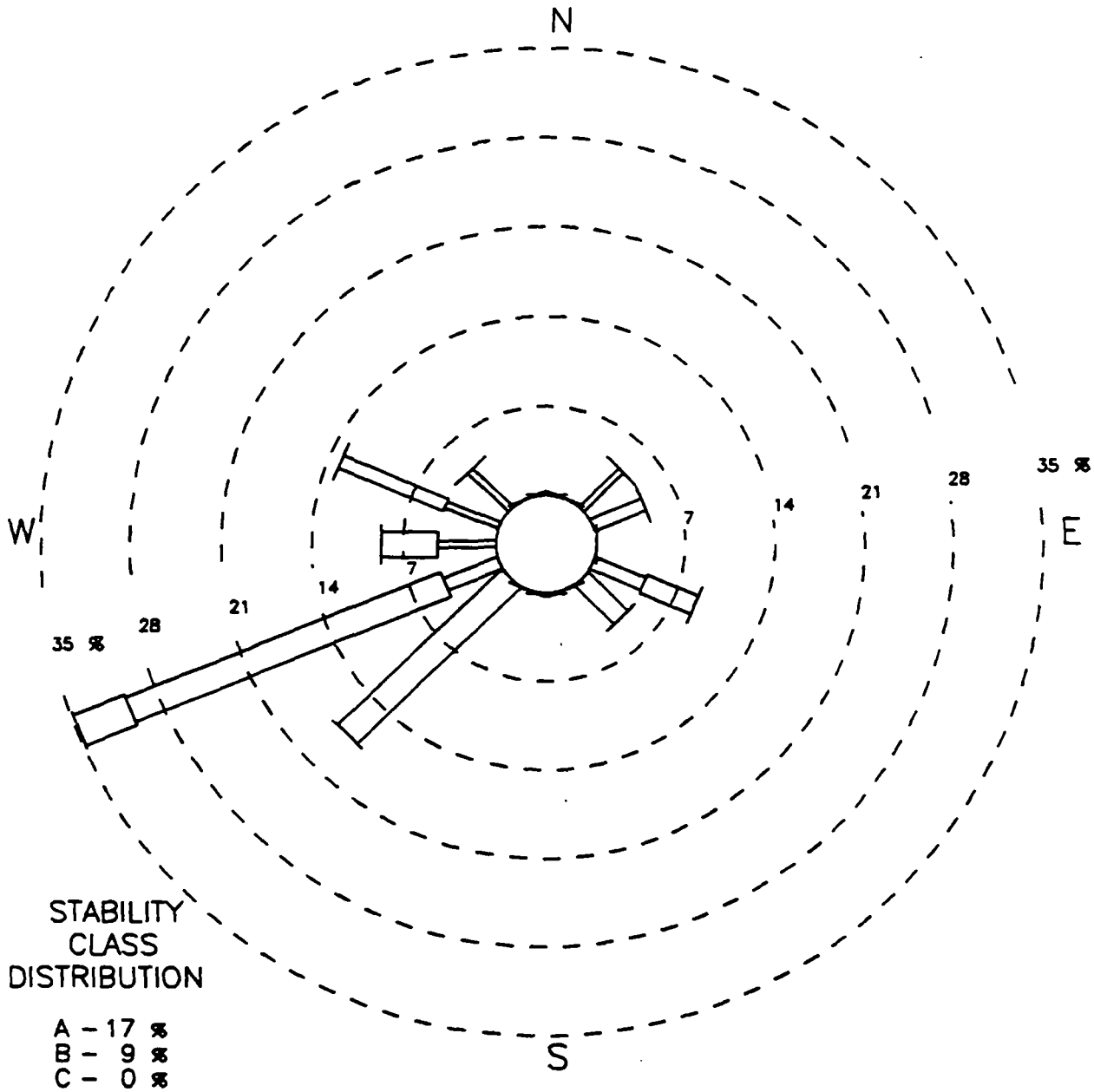


No model-predicted values at Sites 5 & 6

Figure AJ-7 April 14, 1994 U-238



U-238 not detected at Sites 3 - 7



STABILITY
CLASS
DISTRIBUTION

A - 17 %
B - 9 %
C - 0 %
D - 61 %
E - 0 %
F - 13 %

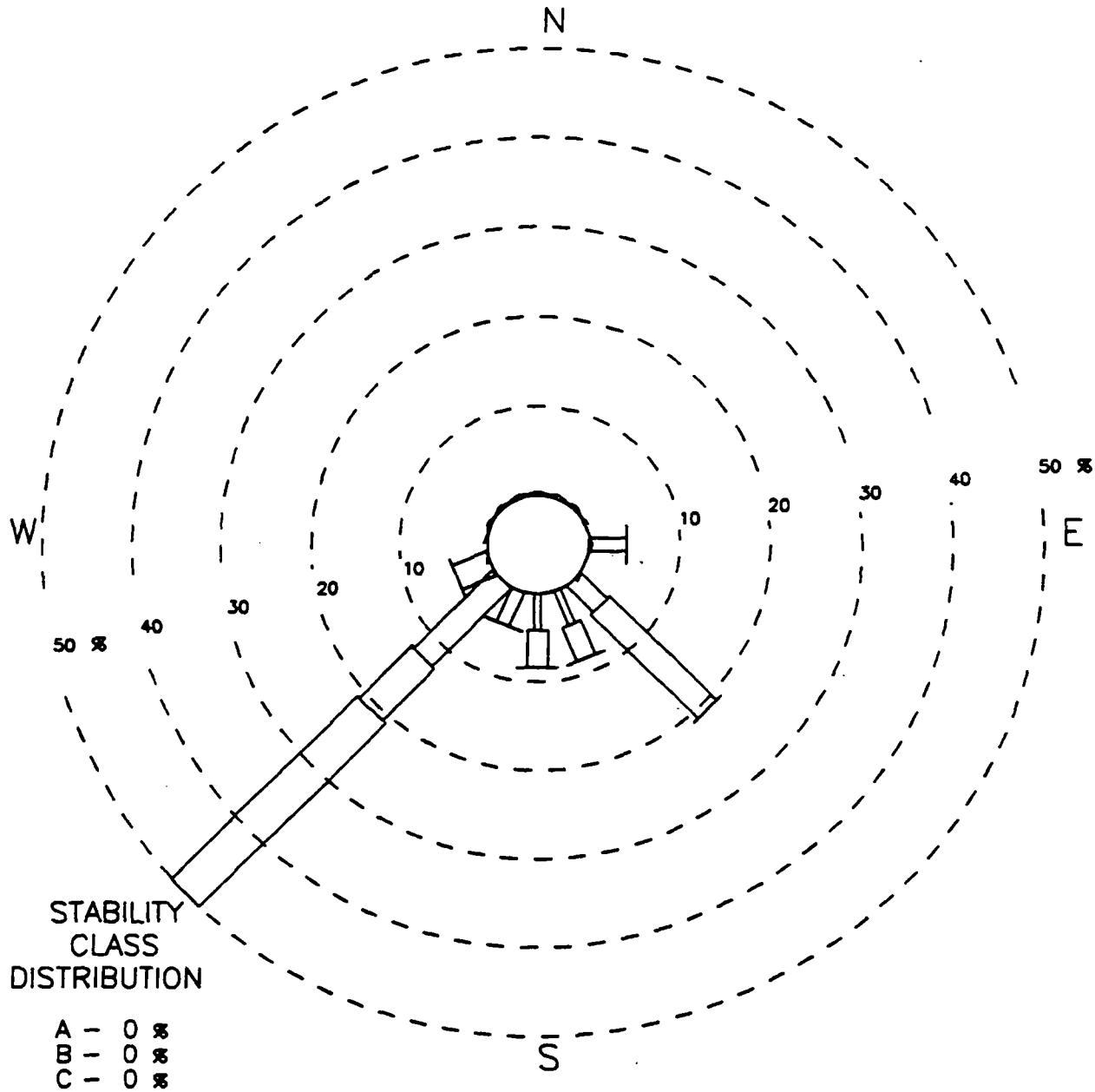
0-3	4-6	7-10	11-16	17-21	22-99
(17 %)	(22 %)	(9 %)	(48 %)	(4 %)	(0 %)

WIND SPEED SCALE (KNOTS)

NOTE - WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

Site 1 Wind Direction
October 24, 1993

Figure AJ-8



STABILITY
CLASS
DISTRIBUTION

A - 0 %
B - 0 %
C - 0 %
D - 100 %
E - 0 %
F - 0 %

0-3	4-6	7-10	11-16	17-21	22-99
(8 %)	(8 %)	(13 %)	(33 %)	(8 %)	(29 %)

WIND SPEED SCALE (KNOTS)

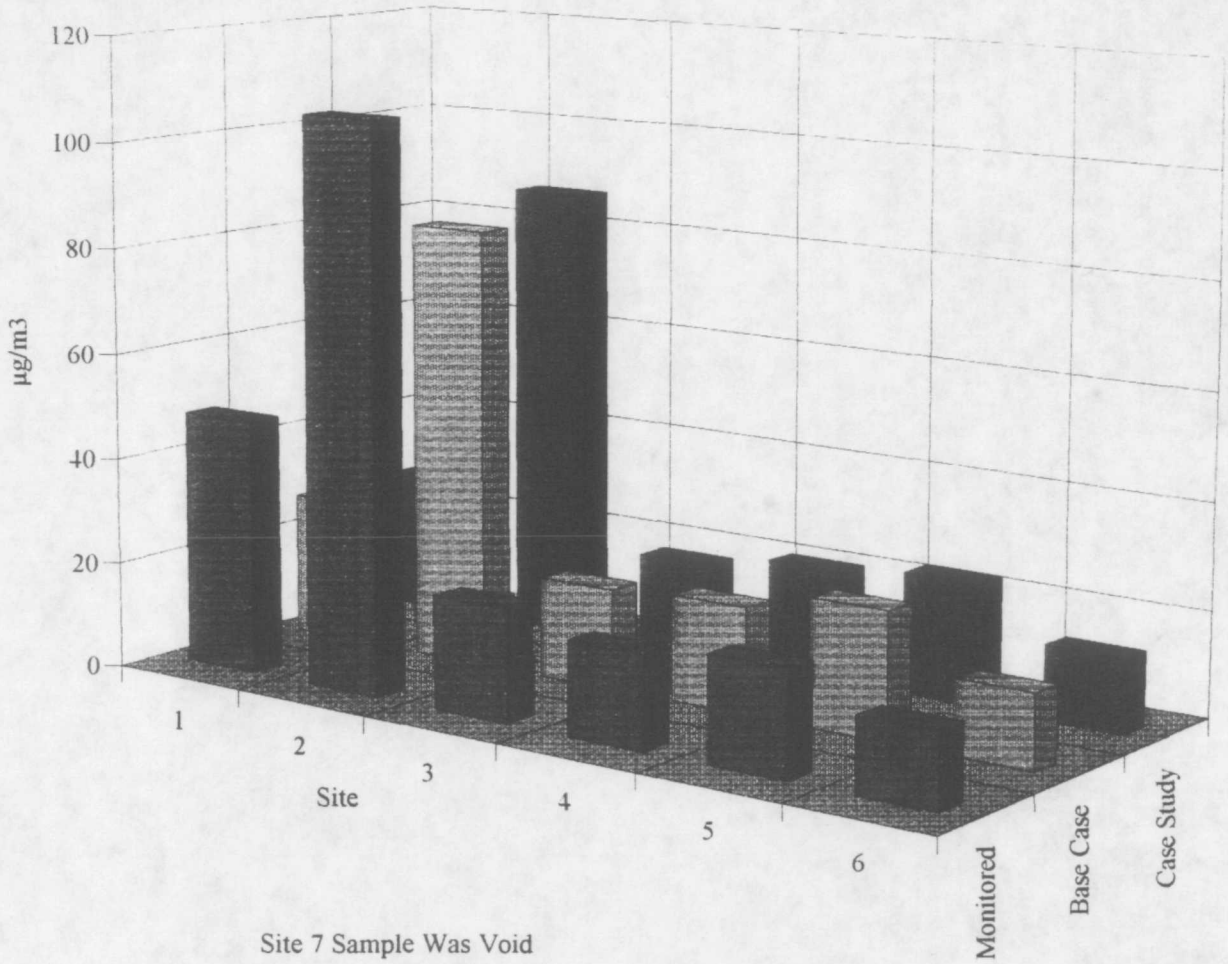
NOTE - WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

Site 7 Wind Direction
October 24, 1993

Note:Stability is VOID

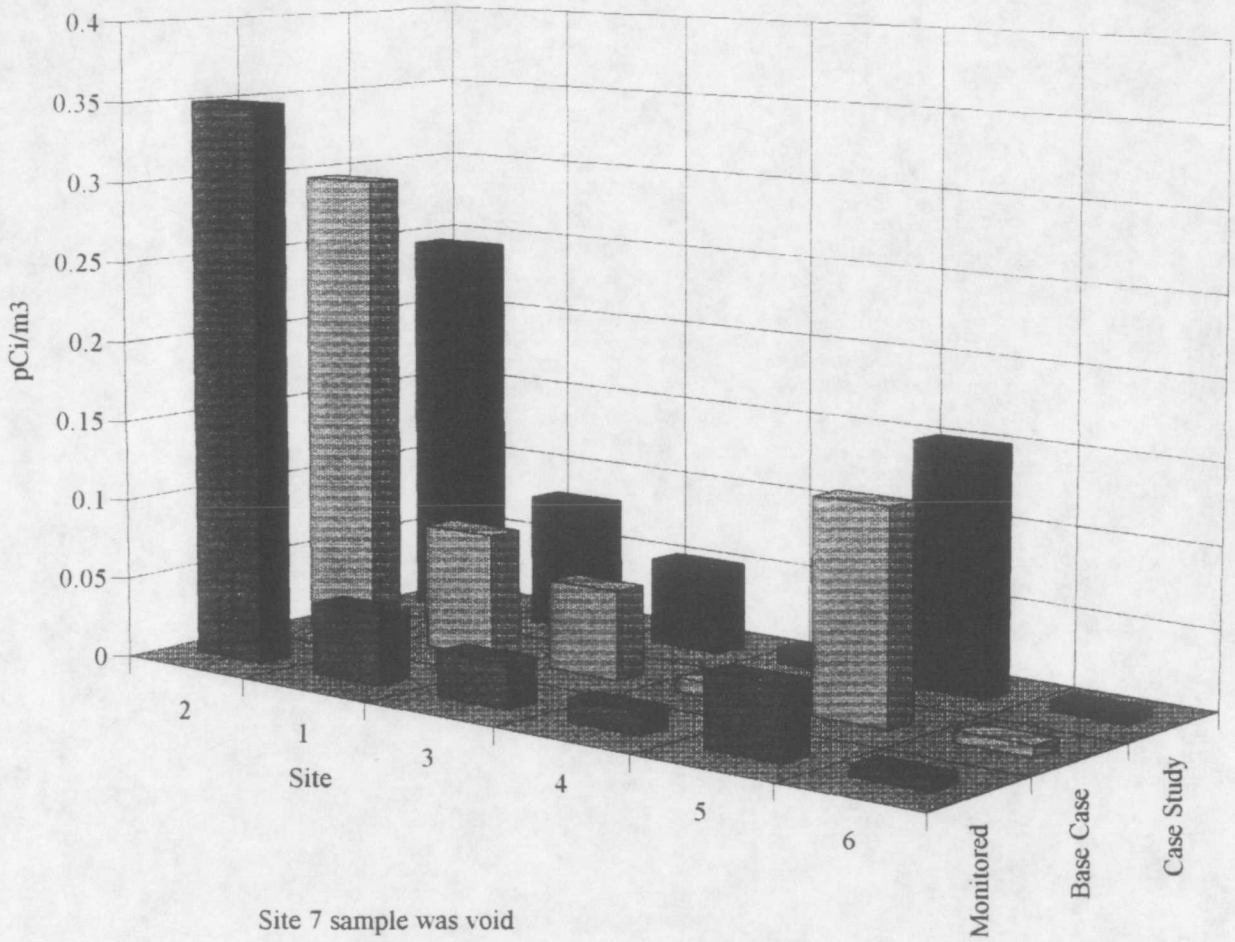
Figure AJ-9

Figure AJ-10 October 24, 1993 PM-10

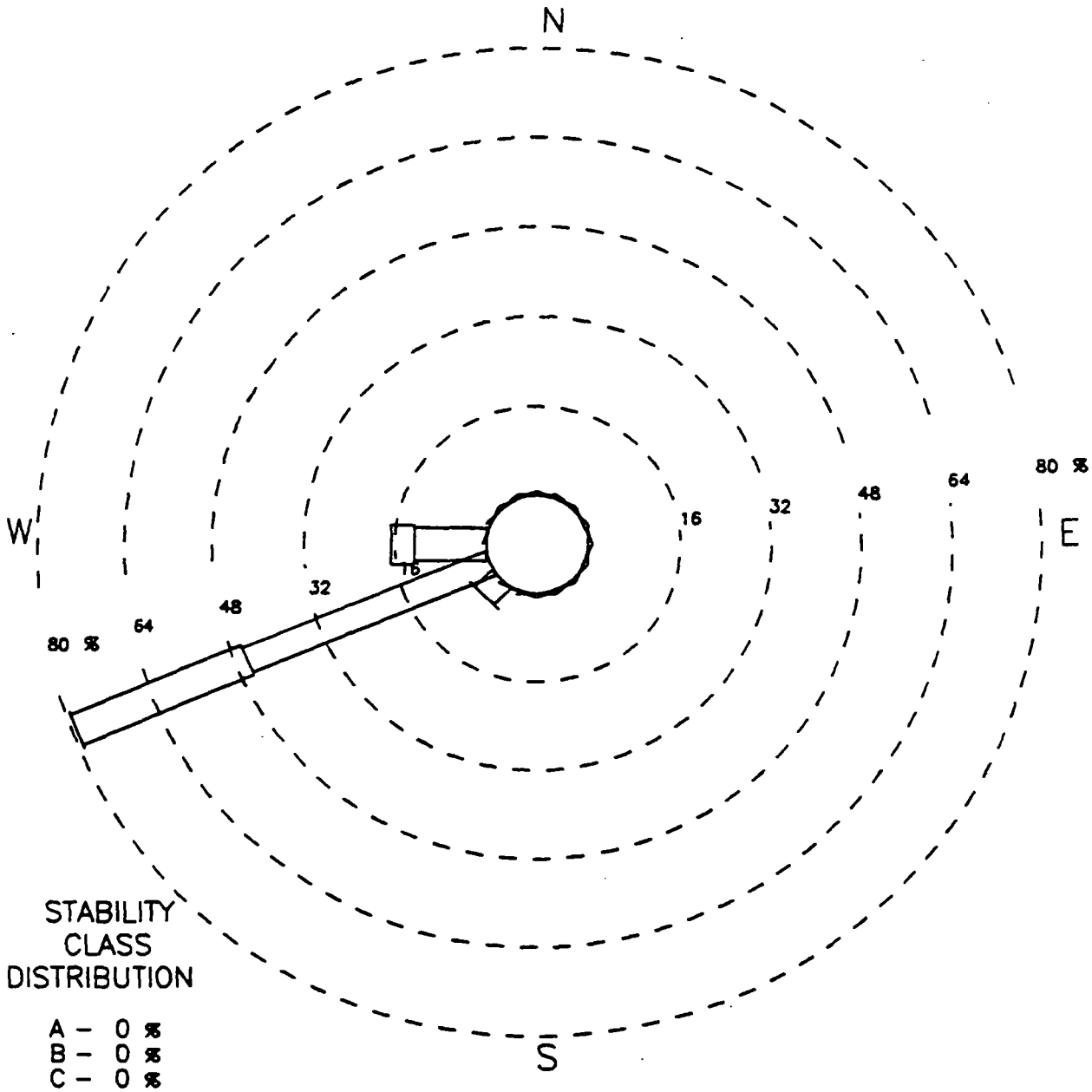


Site 7 Sample Was Void

Figure AJ-11 October 24, 1993 Polonium-210



Site 7 sample was void



STABILITY
CLASS
DISTRIBUTION

A - 0 %
B - 0 %
C - 0 %
D - 100 %
E - 0 %
F - 0 %

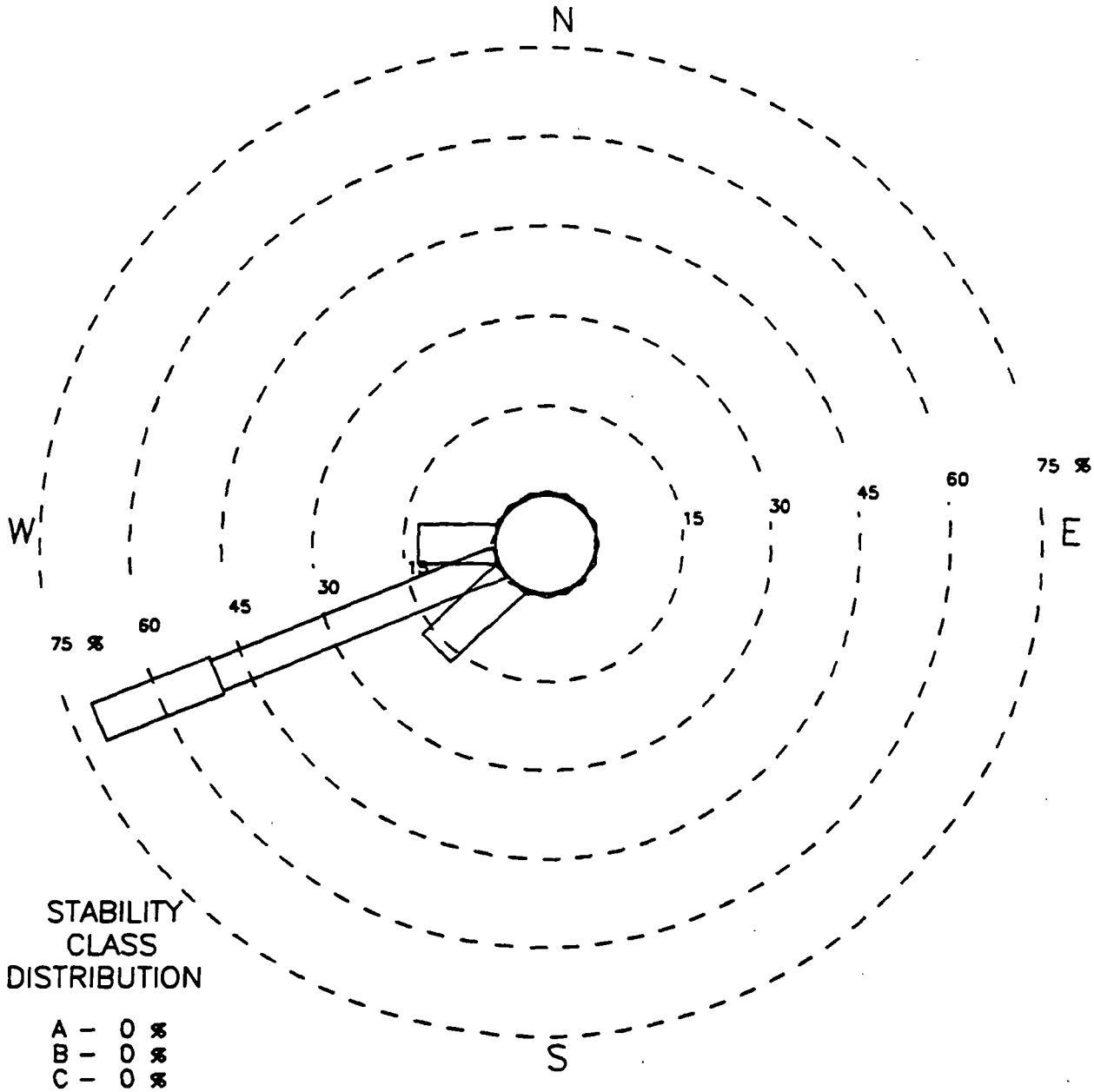
0-3	4-6	7-10	11-16	17-21	22-99
(0 %)	(0 %)	(0 %)	(50 %)	(46 %)	(4 %)

WIND SPEED SCALE (KNOTS)

NOTE - WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

Site 1 Wind Direction
January 6, 1994

Figure AJ-12



STABILITY CLASS DISTRIBUTION

A – 0 %
B – 0 %
C – 0 %
D – 100 %
E – 0 %
F – 0 %

0–3	4–6	7–10	11–16	17–21	22–99
(0 %)	(0 %)	(0 %)	(0 %)	(50 %)	(50 %)

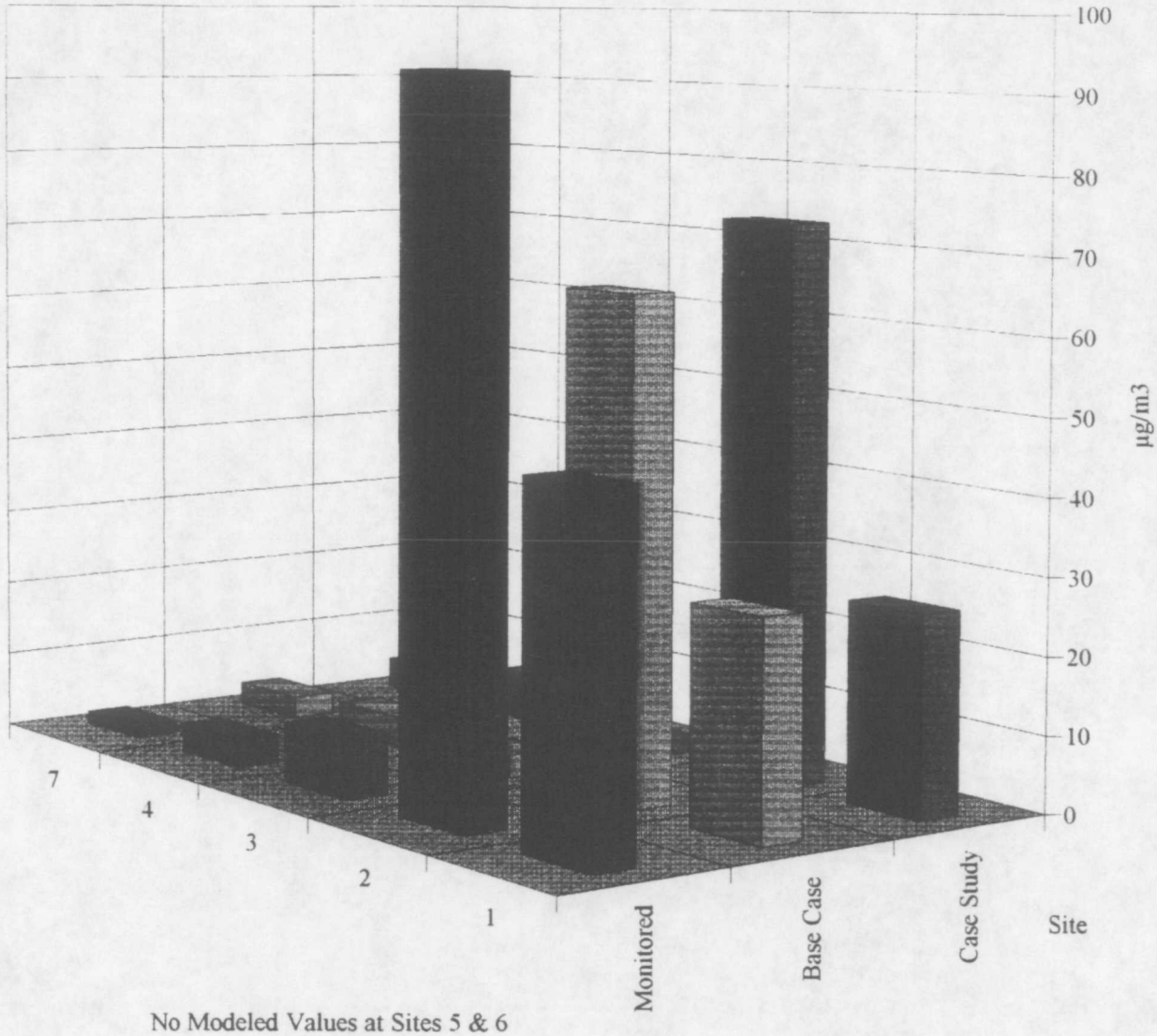
WIND SPEED SCALE (KNOTS)

NOTE – WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

Site 7 Wind Direction
January 6, 1994

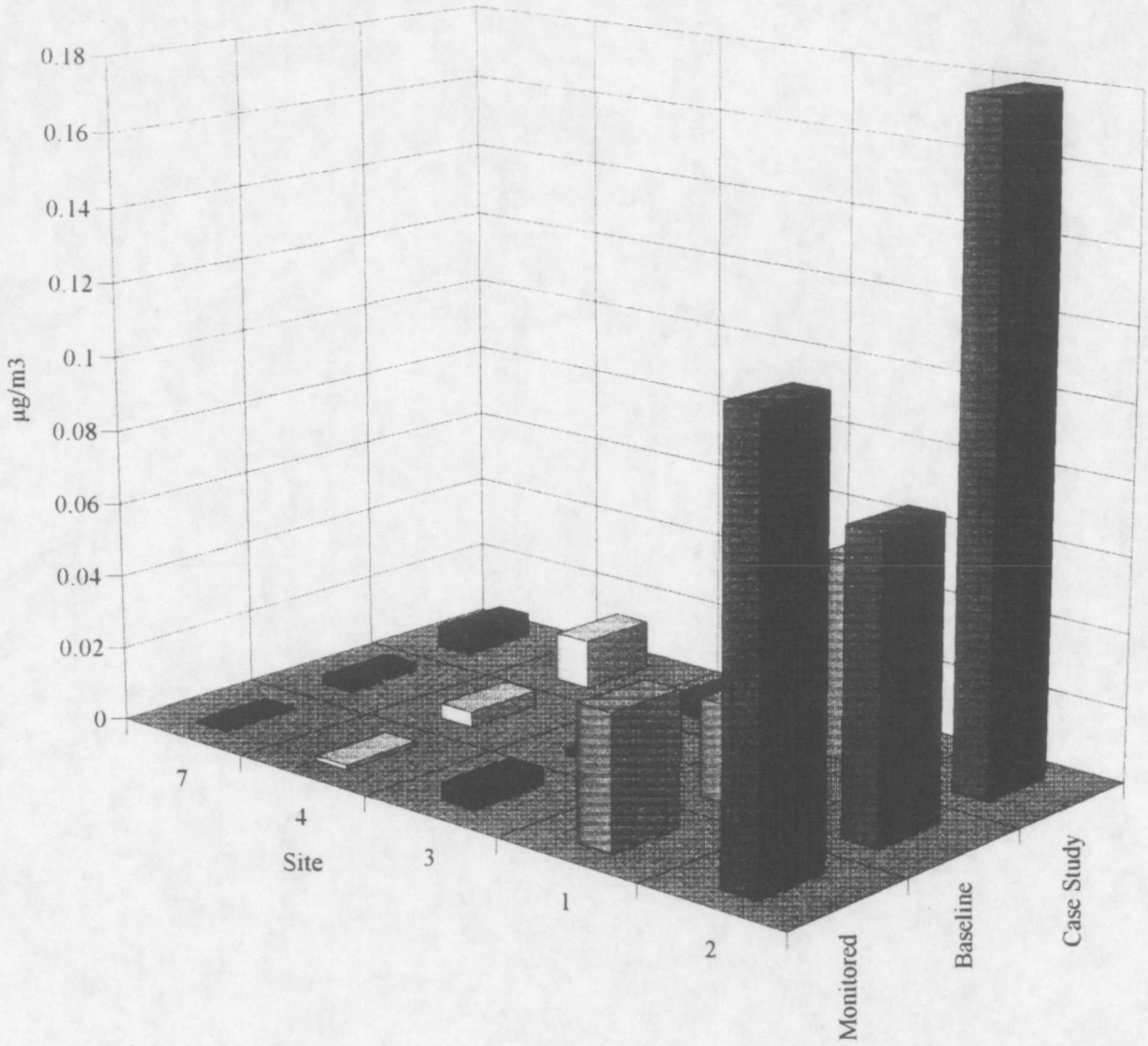
Figure AJ–13

Figure AJ-14 January 6, 1994 PM-10



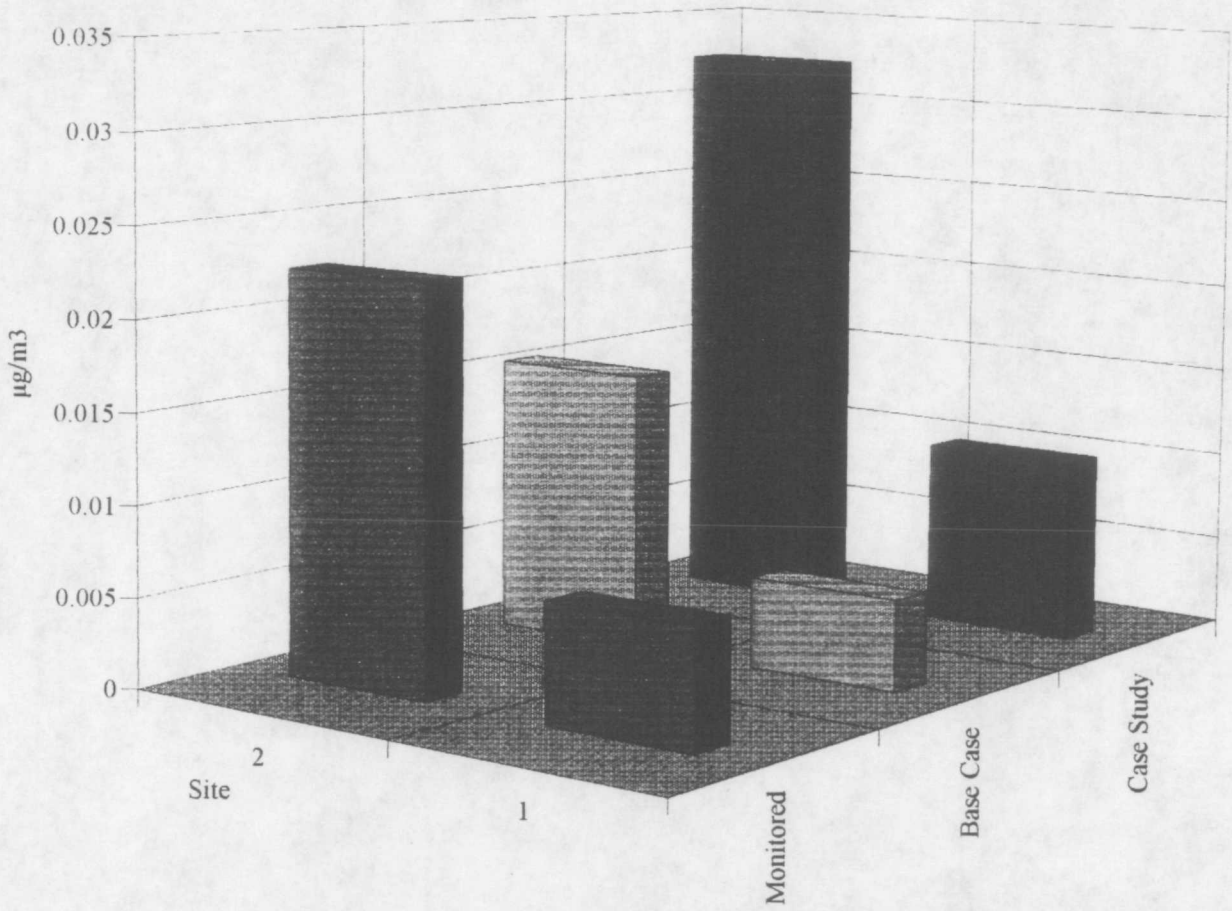
No Modeled Values at Sites 5 & 6

Figure AJ-15 January 6, 1994 Total Chromium

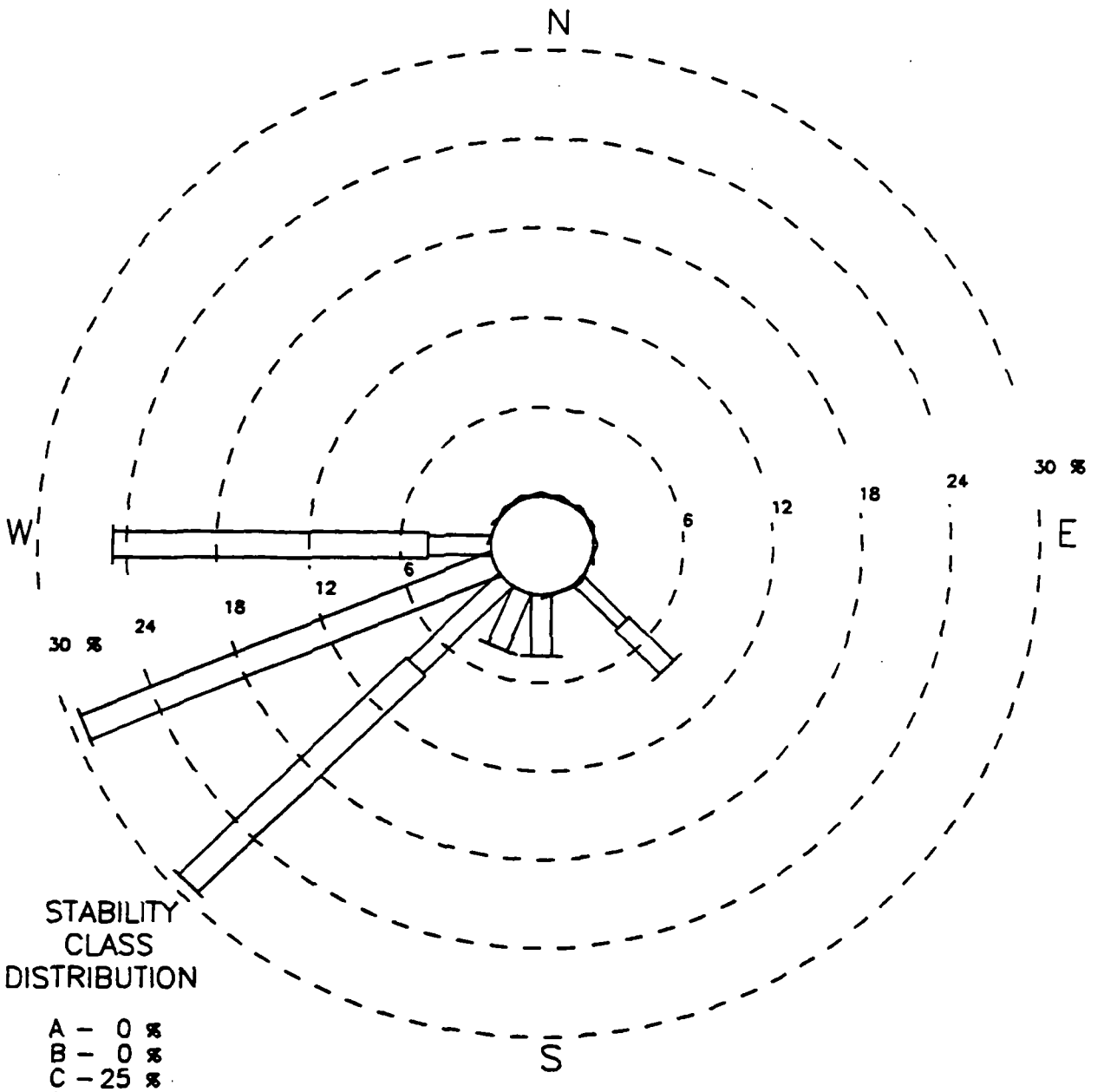


No model-predicted value at Site 5

Figure AJ-16 January 6, 1994 Nickel



Nickel not detected at Sites 3, 5, & 7



STABILITY CLASS DISTRIBUTION

A - 0 %
B - 0 %
C - 25 %
D - 71 %
E - 0 %
F - 4 %

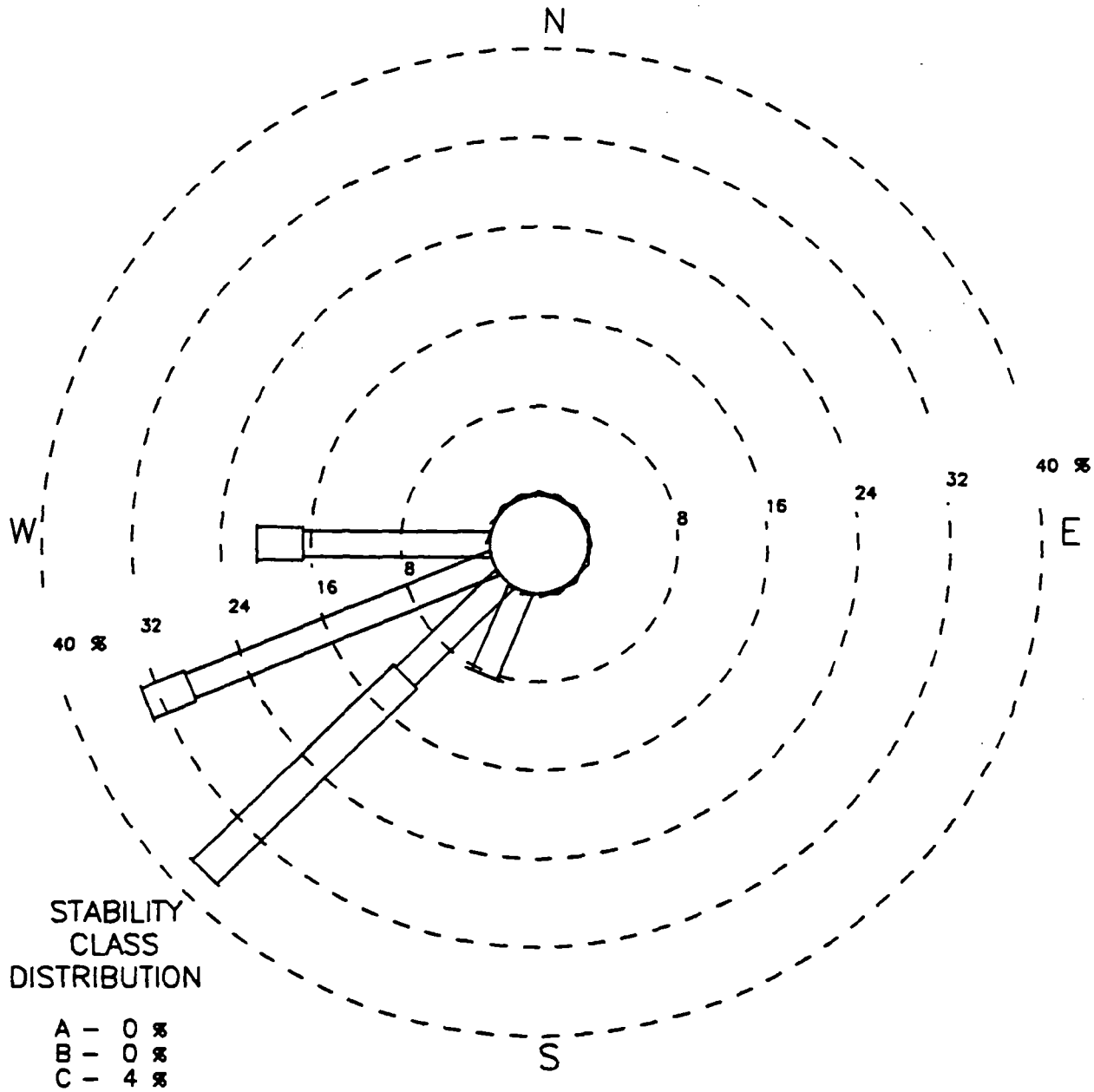
0-3	4-6	7-10	11-16	17-21	22-99
(0 %)	(4 %)	(25 %)	(71 %)	(0 %)	(0 %)

WIND SPEED SCALE (KNOTS)

NOTE - WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

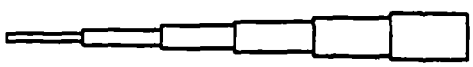
Site 1 Wind Direction
June 7, 1994

Figure AJ-17



STABILITY CLASS DISTRIBUTION

A – 0 %
B – 0 %
C – 4 %
D – 96 %
E – 0 %
F – 0 %



0–3	4–6	7–10	11–16	17–21	22–99
(0 %)	(0 %)	(0 %)	(67 %)	(33 %)	(0 %)

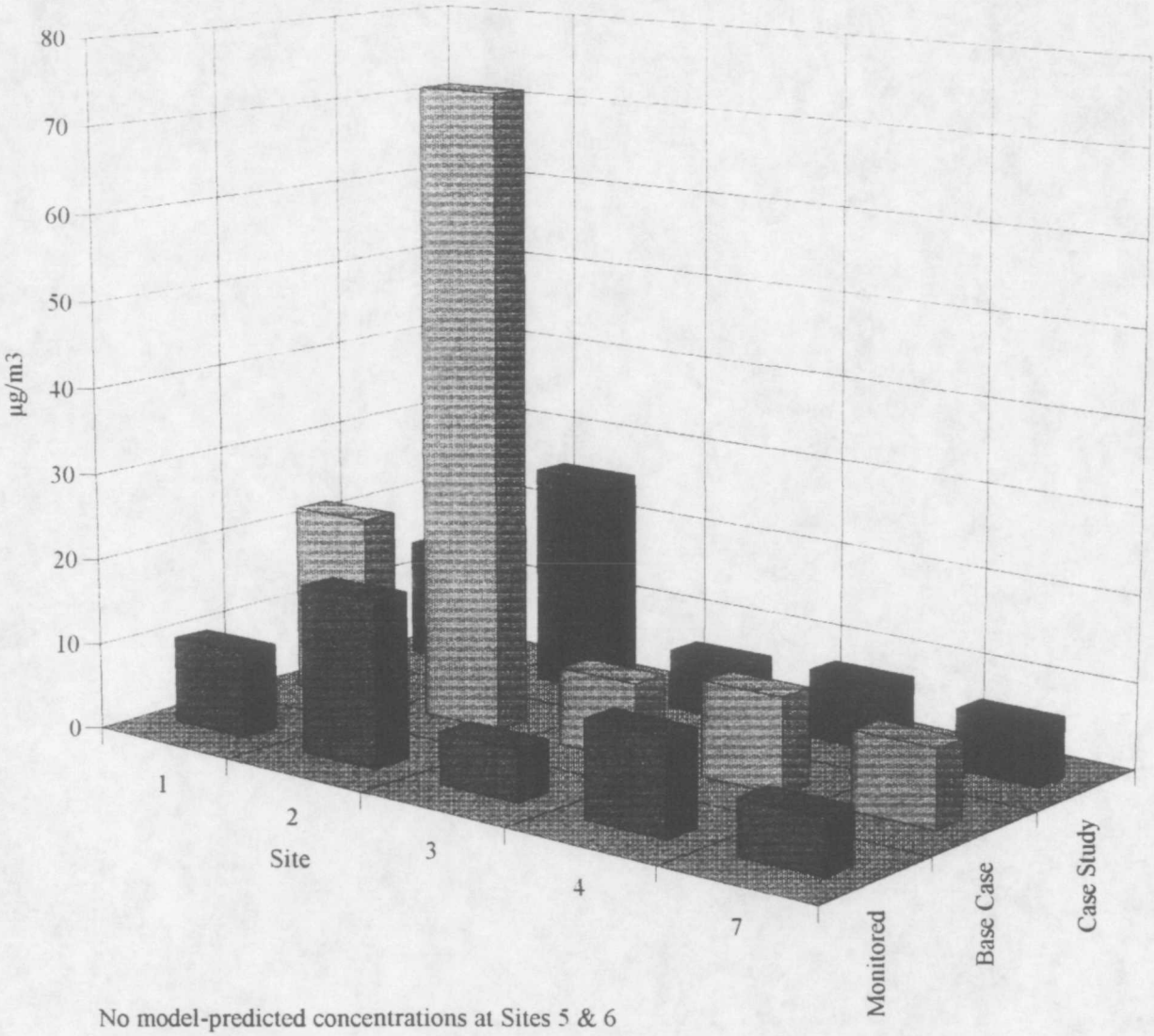
WIND SPEED SCALE (KNOTS)

NOTE – WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

Site 7 Wind Direction
June 7, 1994

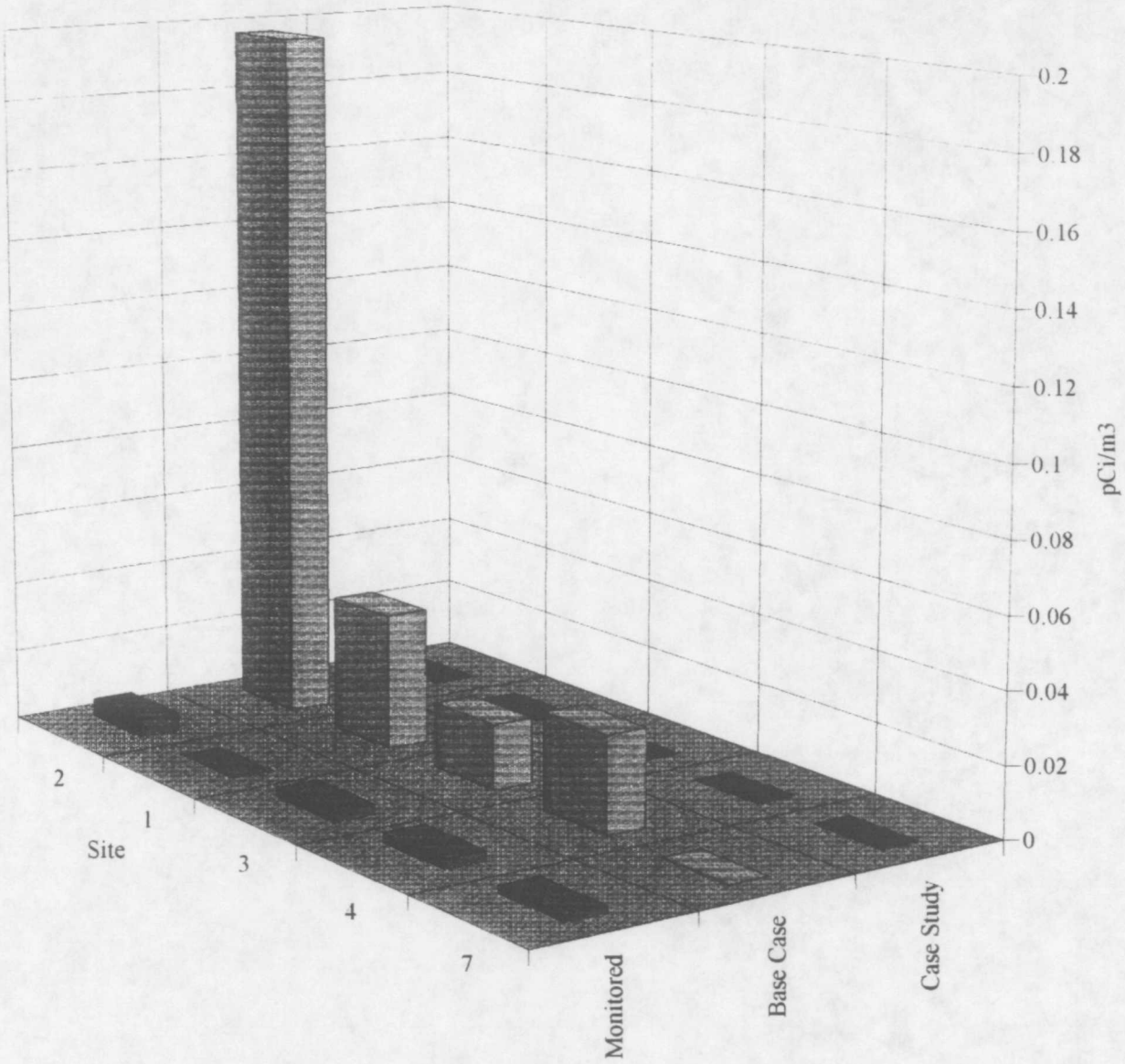
Figure AJ–18

Figure AJ-19 June 7, 1994 PM-10



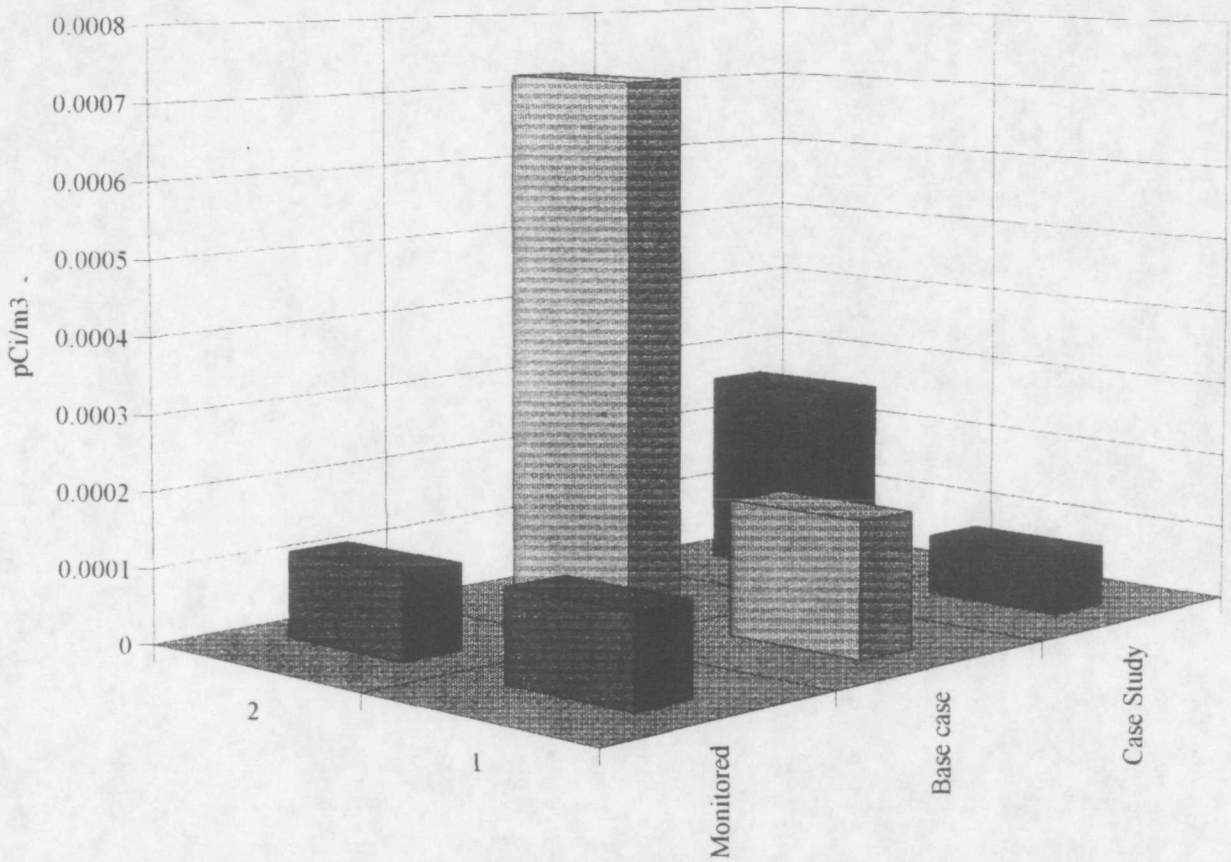
No model-predicted concentrations at Sites 5 & 6

Figure AJ-20 June 7, 1994 Polonium-210



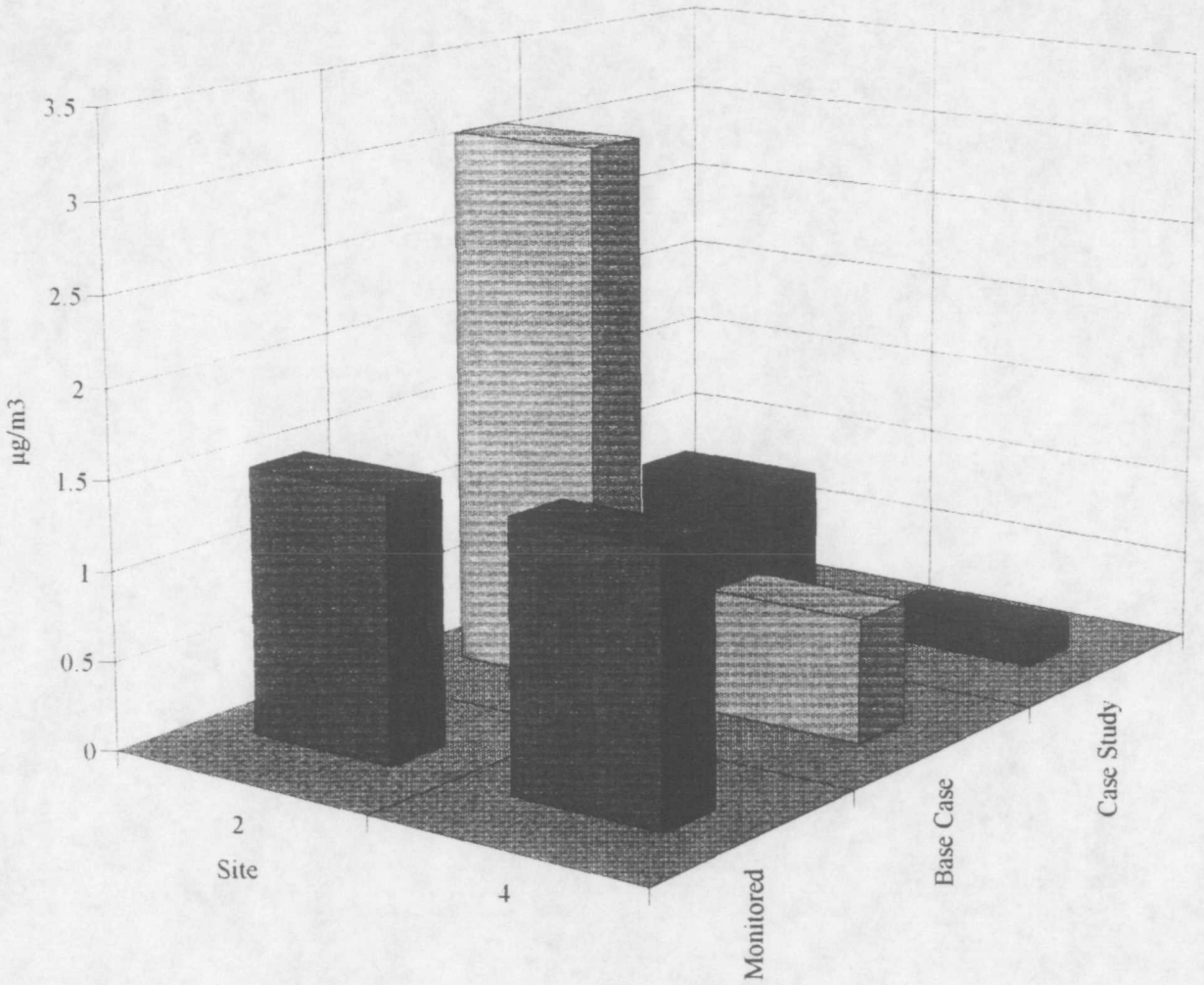
Polonium-210 not detected at Sites 5 & 6

Figure AJ-21 June 7, 1994 U-238

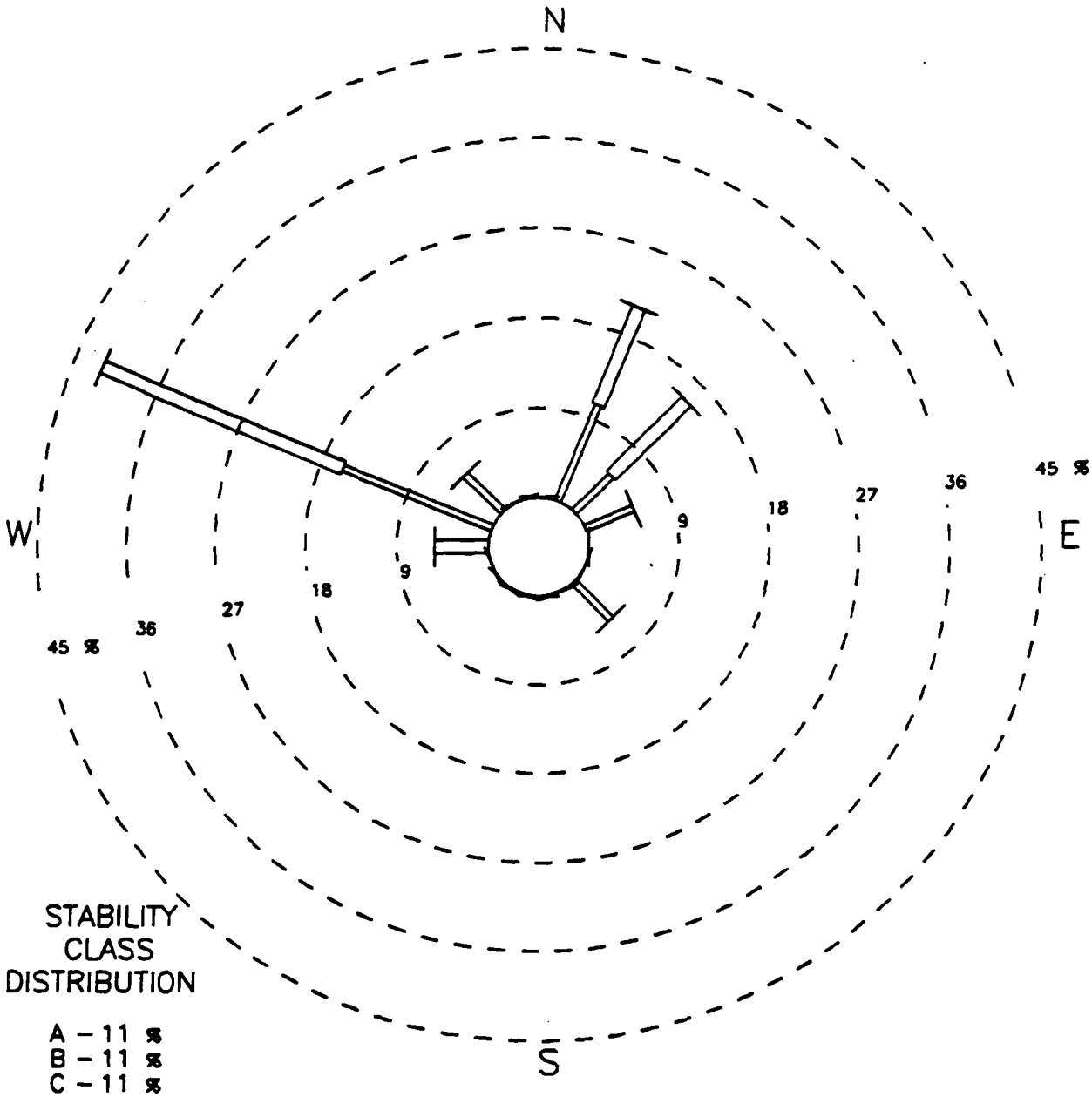


Uranium was not detected at Sites 3 - 7.

Figure AJ-22 Particulate Fluorides June 7, 1994

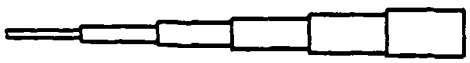


Note: Model predictions are for total fluorides (no distinction between gaseous and particulate) and may overpredict when compared to particulate fluoride only. Fluorides were not detected at Sites 1, 3, and 7.



STABILITY CLASS DISTRIBUTION

A – 11 %
B – 11 %
C – 11 %
D – 21 %
E – 21 %
F – 26 %



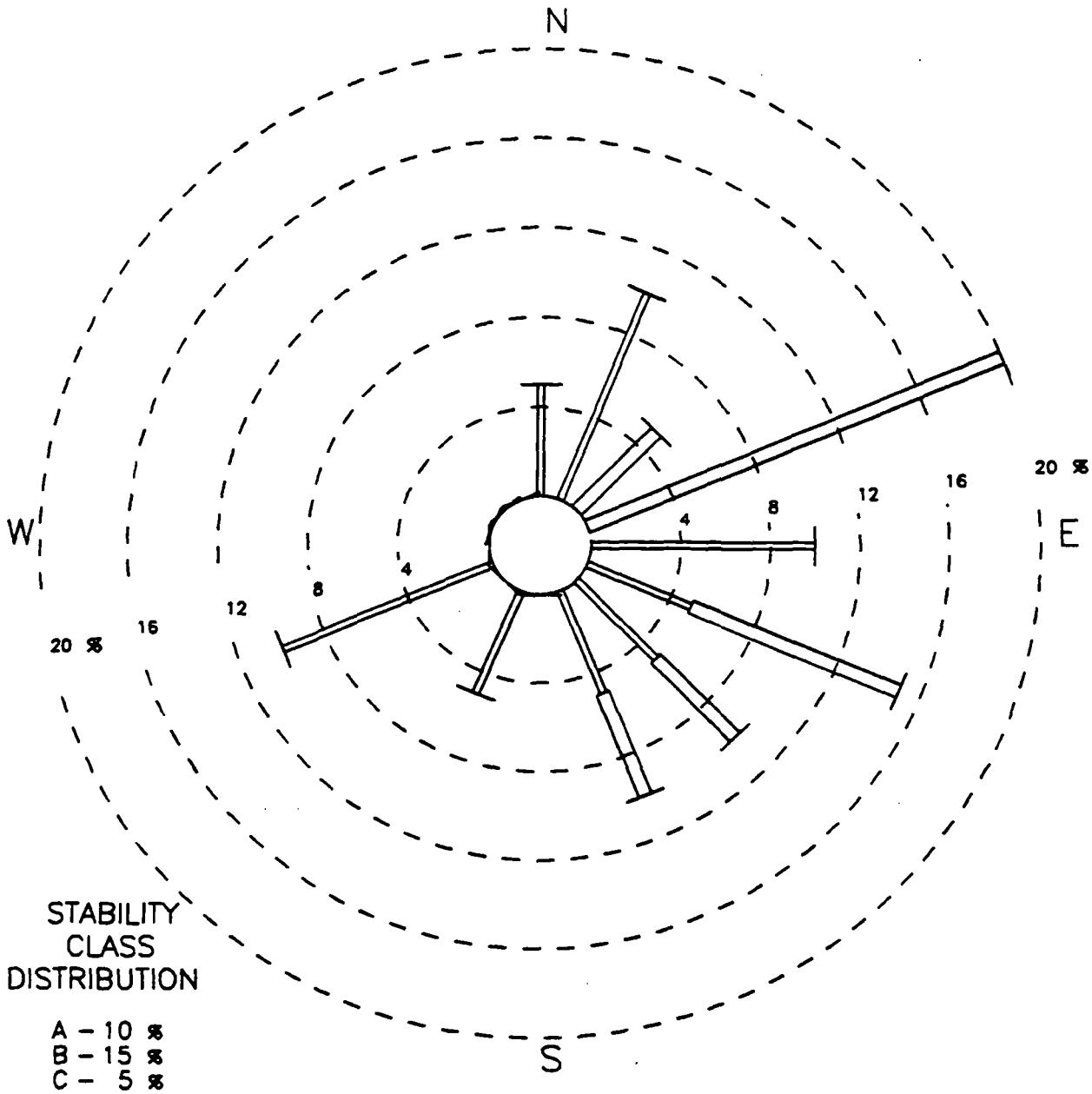
0–3	4–6	7–10	11–16	17–21	22–99
(47 %)	(53 %)	(0 %)	(0 %)	(0 %)	(0 %)

WIND SPEED SCALE (KNOTS)

NOTE – WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

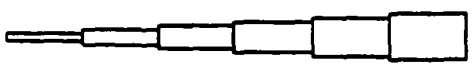
Site 1 Wind Direction
January 20, 1994

Figure AJ–23



STABILITY
CLASS
DISTRIBUTION

A – 10 %
B – 15 %
C – 5 %
D – 20 %
E – 10 %
F – 40 %



0–3	4–6	7–10	11–16	17–21	22–99
(55 %)	(45 %)	(0 %)	(0 %)	(0 %)	(0 %)

WIND SPEED SCALE (KNOTS)

NOTE – WIND DIRECTION IS THE DIRECTION WIND IS BLOWING FROM

Site 7 Wind Direction
January 20, 1994

Figure AJ–24

Figure AJ-25 January 20, 1994 PM-10

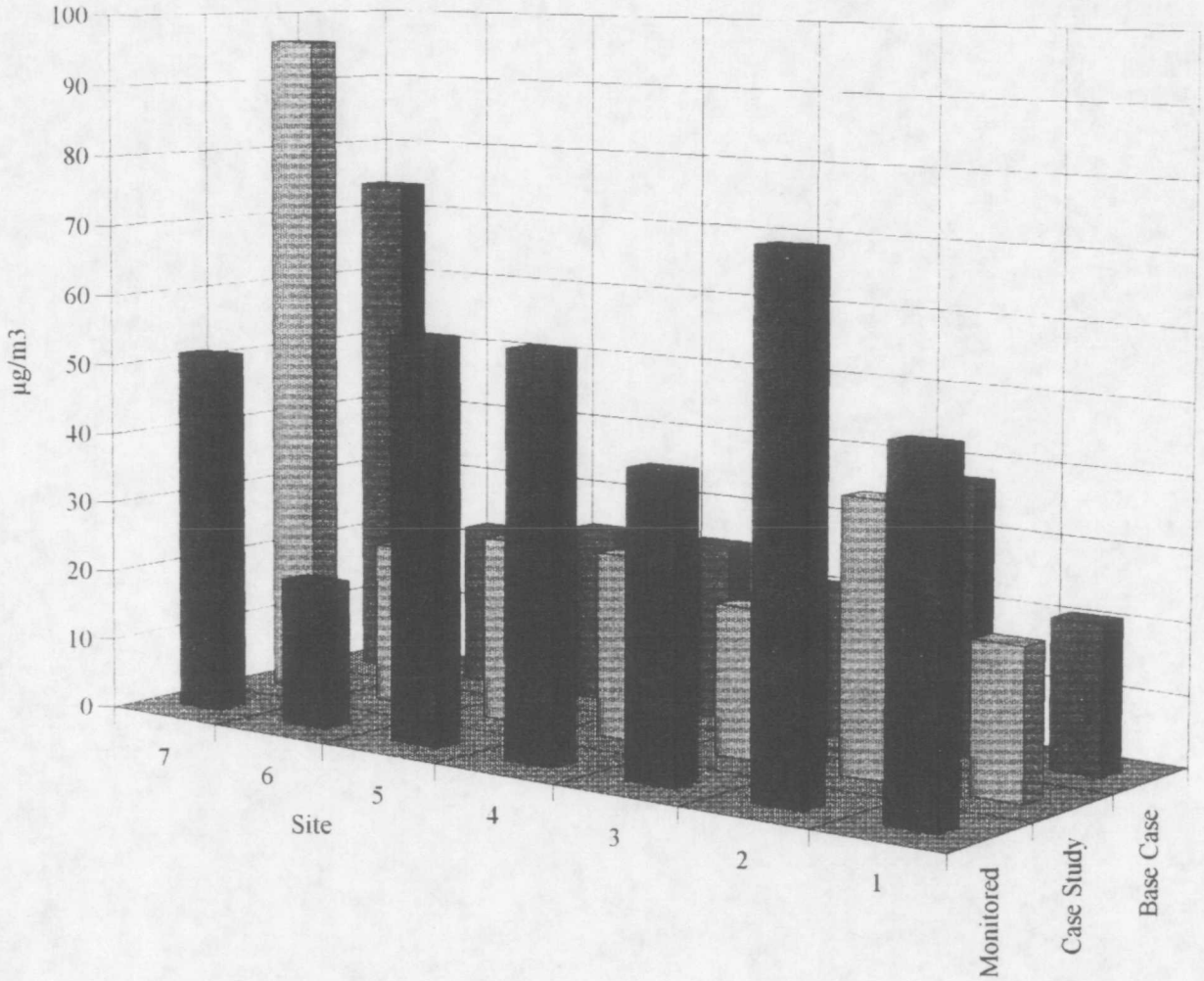
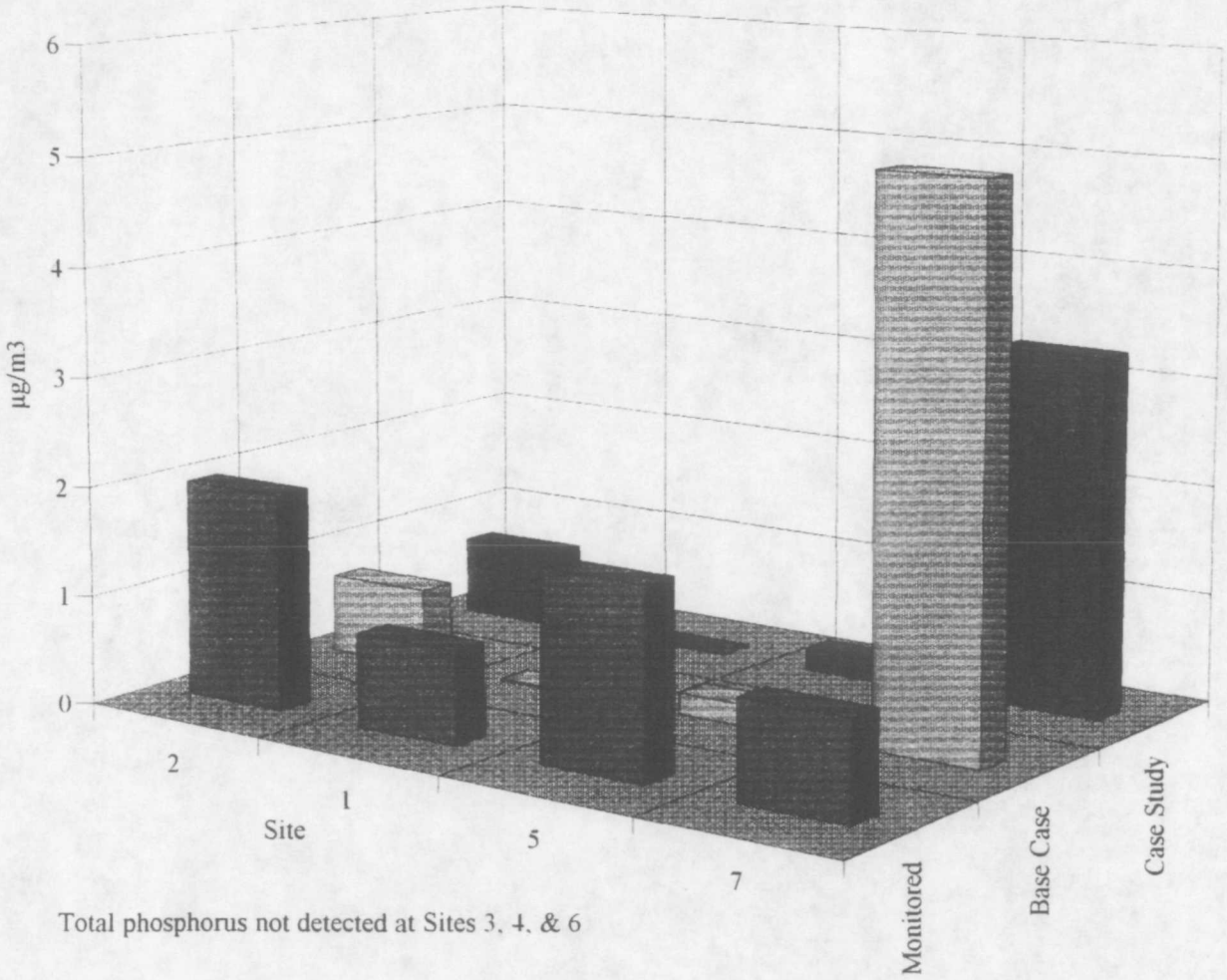
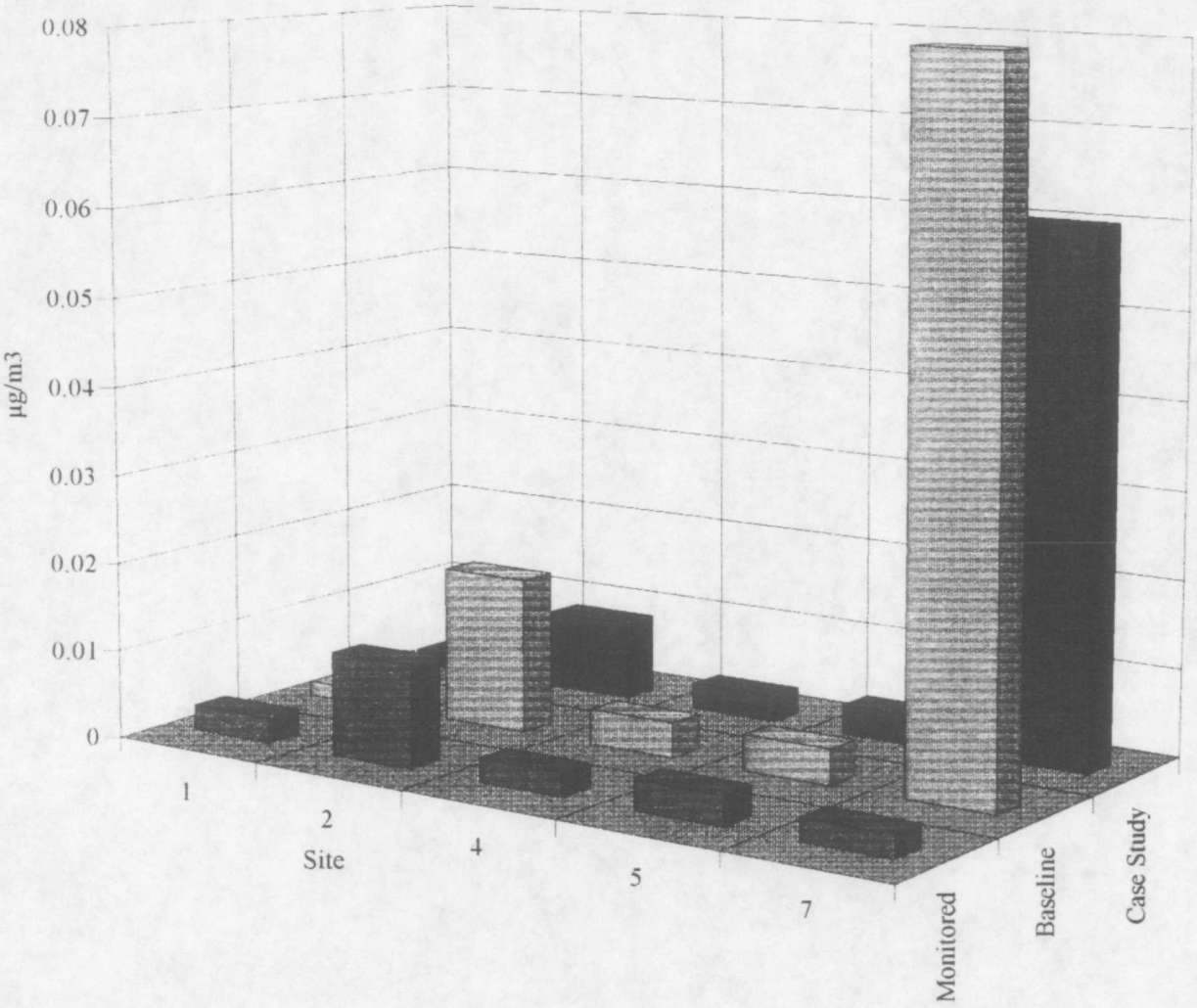


Figure AJ-26 January 20, 1994 Total Phosphorus



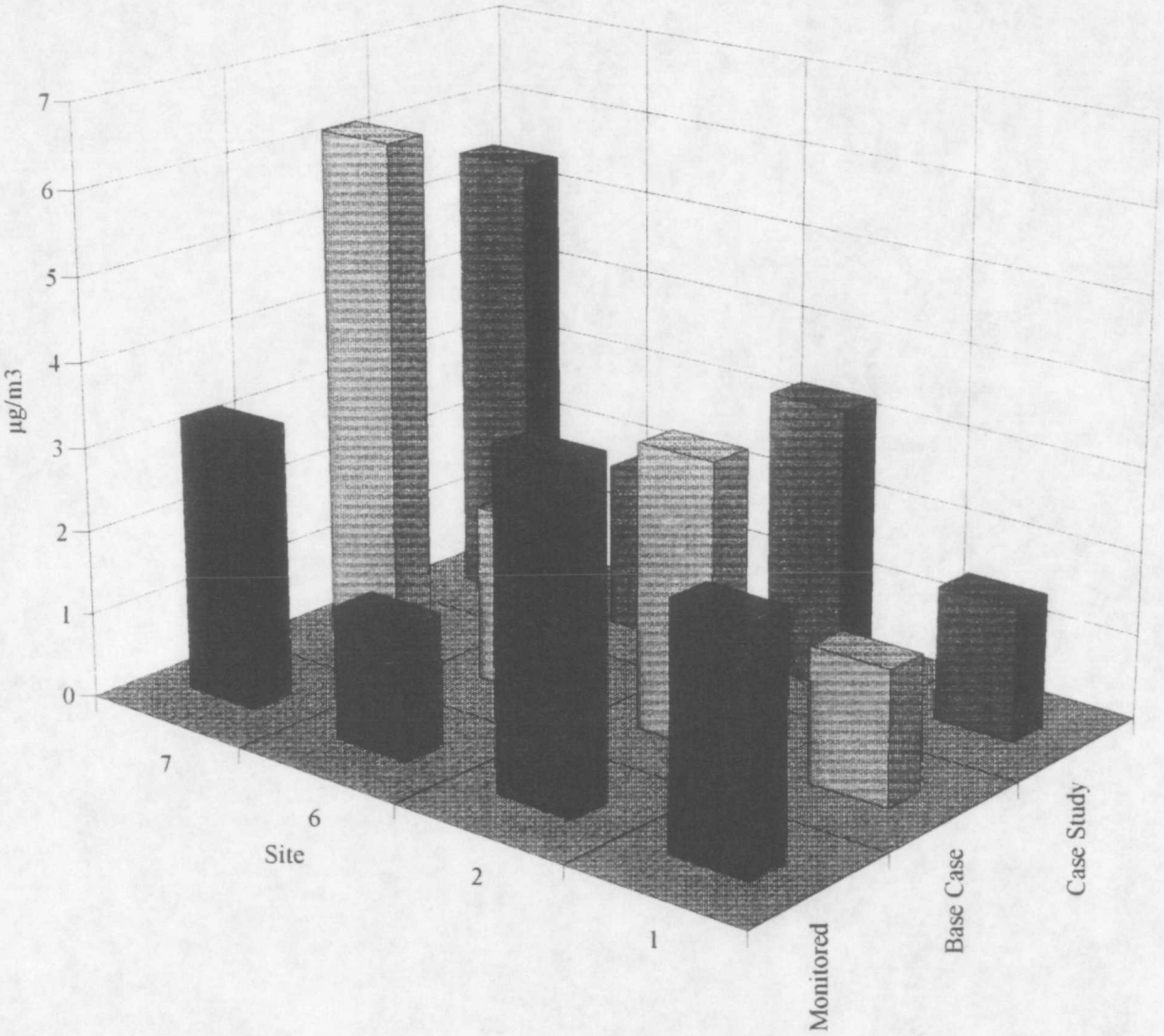
Total phosphorus not detected at Sites 3, 4, & 6

Figure AJ-27 Total Chromium January 20, 1994



Total chromium not detected at Sites 3 & 6

Figure AJ-28 Total Fluorides January 20, 1994



Appendix AK

Chromium 6 Information

TRC
TRC Environmental Corporation

12242 S.W. Garden Place
Tigard, OR 97223
☎ (503) 624-2773 Fax (503) 624-2653

September 9, 1994

Mr. J. David Buttelman
Environmental Engineering Manager
FMC Corporation
P.O. Box 4111
Pocatello, Idaho 83202

Re: Addendum to Final Report; Slag Handling Emission Factors (Project No. 93C048)
Discussion/Clarification of Hexavalent Chromium Potential

Dear Dave:

Chester/TRC has taken a closer look at the potential for hexavalent chromium (CrVI) as a component of the slag handling fugitive emissions measured during our study conducted in the fall of 1993. Accordingly, an addendum to the subject report is attached which relates CrVI data from two very closely related sources: the slag tap hood vent samples and the bulk road dust/ferrophos samples. Based on the analytical results and rationale presented, we feel confident that significantly reduced CrVI emission factors can be justified for the slag handling operations.

Hopefully, this will provide a useful and realistic perspective on the issue of fugitive CrVI emissions from the slag handling operations. Please call Brad or me if you have any questions or if you want us to investigate this issue further.

Best Regards,

Randy Peltier

Randy Peltier, P.E.
Project Manager

cc: Lou Hammermiester, FMC
Jim Sieverson, FMC
Sheila Bush, FMC
Tim Morgan, Bechtel
Art Day, Bechtel

RGP:wdm\CF\17010\PO4LT012.W51

ADDENDUM

September 9, 1994

To:

Determination of Emission Factors From Slag Handling Operations at the FMC Plant in Pocatello, Idaho

Final Report
January 19, 1994

Subject:

Discussion/Clarification of Hexavalent Chromium Potential

Prepared by:

TRC Environmental Corporation
12242 S.W. Garden Place
Tigard, Oregon 97223

Background

Chester (now TRC) has revisited the issue of hexavalent chromium (CrVI) emission potential in the slag handling operations. Because of the relatively high CrVI detection limits realized for the fugitive emission samples collected by Chester during its 1993 characterization of this process (*Determination of Emission Factors From Slag Handling Operations at the FMC Plant in Pocatello, Idaho*), potential CrVI emissions, although **undetected**, were reported as less than or equal to the total chromium analysis of the emission samples. Other related slag source measurement data have become available since Chester's study. These more recent data have been reviewed to further evaluate the potential presence of CrVI in these emissions.

Other sampling data, most of which was collected within a month of the slag handling field program, has now been considered in relation to the slag handling sources. These nearly contemporaneous sampling data include the results of recent tap hood vent source tests (conducted by Chester) and the bulk road dust/ferrophos sample analyses (collected by Bechtel and analyzed by Chester). These data sets are discussed below, following a brief recap of the originally reported slag handling fugitive data. A summary of these related data is shown in Table AD1.

Slag Handling Fugitive Samples

CrVI was not detected in any of the slag handling fugitive source emission samples which were collected for this report. Due to the low particulate mass collected during the brief, episodic slag handling events, the CrVI detection limits were quite high: two to three orders of magnitude *greater* than the total chromium levels measured by standard protocol energy dispersive X-Ray fluorescence (XRF). Because the CrVI levels cannot exceed the total chromium levels, the reported CrVI emission factors were based on the measured total chromium levels rather than on the detection limit of the CrVI measurements. Accordingly in the subject report, the CrVI emission factors were overly conservatively reported as equal to the total chromium emission factors (i.e. 100% of the chromium is present as CrVI) and were qualified in the text as representing maximum possible, rather than actually measured, emissions. This assumption is definitely conservative and a result of the limited CrVI data generated within the original scope of the slag handling fugitive project.

Slag Tap Hood Vent Samples

The first related data set to be considered was from the slag tap hood vent source testing project (Chester Project 93C053, final report dated January, 18, 1994). The emissions measured in the vent stacks during slag tapping are essentially a concentrated form of the fugitive emissions released from the subsequent slag cooling and handling operations. Also they represent the maximum potential for CrVI formation as the hot slag exits the reducing environment of the electric furnace and first contacts a cooler, oxidizing atmosphere. The tap hood vents were sampled for total chromium (EPA Method 29 for multiple metals) and for CrVI (CARB Method 425, which utilizes the same laboratory analytical procedures as the previous slag handling study samples). Four samples were collected for each analysis, without particulate size discrimination (TSP), during both slag tapping and ferrophos tapping operations. As with

the slag pit fugitive sampling, all of the vent sample analyses for CrVI were non-detects. However, due to the sample volumes (duration) and mass collected, the CrVI detection limits were well within the range of the total chromium levels which were detected. Therefore, the maximum possible CrVI potential could be calculated using the actual CrVI detection limits. Thus calculated, for the slag tapping events, the average CrVI/total chromium ratio is <0.019, with a range of variability from <0.012 to <0.023. The corresponding results for ferrophos tapping are <0.035 average with a range from <0.005 to <0.098 (the sample producing the .098 ratio is considered to be non-representative due to a very low sample volume resulting from a short tap).

Bulk Road/Ferrophos Samples

The second data set considered was a group of road dust/ferrophos bulk samples which were collected from various locations on the FMC facility by Bechtel. These samples are essentially composed of the same material that is being released by the slag handling operations, albeit at ambient temperature. Seven road dust samples and one ferrophos sample had been analyzed for both CrVI and total chromium and thus were selected for consideration. Representative portions of these bulk samples were aerodynamically classified (by resuspension) into TSP and PM_{10} size fractions in the laboratory before analysis. Total chromium and CrVI were analyzed by the same analytical methods used for the other samples described previously, with one exception. The ferrophos samples were analyzed for CrVI by a modification of NIOSH 7600 allowing for matrix blank correction. Positive matrix interferences can be more significant with bulk samples than with air samples due to larger deposit mass. (These matrix interferences and blank corrections are discussed in more detail in the attached memo from Tim Barkowski of Chester LabNet to Rosemary Holdsworth of Bechtel.)

Calculated and stated as described above, the average CrVI/total chromium ratios for the TSP and PM_{10} size fractions for the bulk road dust samples were found to be <0.028 and <0.056, respectively. The corresponding ranges of variability were <0.019 to <0.05 for the TSP samples and <0.015 to <0.145 for the PM_{10} samples. Again, these indicate maximum possible CrVI potential as all of the samples were non-detects. (One sample showed a possible detect at 1.6 times the analytical detection limit. However, considering the unquantified potential for significant positive matrix interferences as discussed above, this potential "hit" was too close to the detection limit to be considered a valid and reliable detect. Accordingly, it is being treated as a non-detect.)

The TSP and PM_{10} fractions of the crushed ferrophos sample, after subtraction of quantified matrix blank interferences, showed the only reliable indications of detectable CrVI levels in any of the slag-related samples. These samples also showed, by considerable margin, more total chromium than any of the other samples. The resulting CrVI/total chromium ratios are less than 1% at 0.0099 and 0.0082 for the TSP and PM_{10} samples, respectively.

Discussion

By every indication from these additional sets of samples, which are very closely related by process and proximity to the samples collected during slag handling fugitive emissions study,

the real potential for CrVI is well below 100% of the total chromium. Realistically, the CrVI potential is believed to be less than ~1% of total chromium as indicated by "detects" in two of the bulk crushed ferrophos samples. These are the only reliable quantifications of CrVI in <u>any</u> of the available samples related to the slag generating and handling processes. Looking at all of the rest of the related samples, in which no CrVI was measurable, the average CrVI/total chromium potential is less than ~4% as indicated by the average of non-detects at the detection limit.

In addition to quantitative review of the analytical data, some qualitative observations on the nature of the slag generating and handling processes are noteworthy. Considering the remote likelihood that any trace of CrVI would survive the reducing environment of the electric furnaces reinforces the analytical indications of very low CrVI levels. Even when the hot slag is tapped and allowed to contact the atmosphere, the potential for CrVI formation is limited by the relative lack of turbulent mixing at the slag/air interface and the low surface-to-volume ratio afforded by the slag trough. This hypothesis is reinforced by the very low CrVI/total chromium ratios indicated (by non-detects at the detection limit) in the tap hood vent samples, and by the <1% CrVI/Cr ratios measured in the crushed ferrophos samples. As the hot slag progresses from this point to the cooling pits, its temperature is reduced rapidly by the water spraying which further reduces the potential for release of volatile chromium and its subsequent oxidation to CrVI. Also, the significant moisture levels attendant to this operation will only *accelerate* the conversion of any available CrVI to the lower, more stable valence states.

Conclusions

Based on the analytical results and rationale presented above the following conclusions are drawn:

1. CrVI was not detected in any of the samples collected to characterize furnace tapping and slag handling emissions. However, due to the range of detection levels encountered during analysis of total chromium and CrVI, it is theoretically possible that on the average CrVI could be present at no more than 4% of the total chromium.

2. Actual CrVI in the slag handling fugitive emissions is believed to be less than 1% of the total chromium, as indicated by the only CrVI detects in the related data.

3. The environmental conditions in which the slag is formed, discharged, cooled, and handled do not favor the formation or persistence of CrVI over the lower, more stable valence states.

4. 96-99% reduction of the CrVI emission factors originally reported for the slag handling operations is justified accordingly.

Based on these conclusions, the emission factor tables from the original slag handling fugitive emissions report have been modified to show the reduced CrVI emission factors. The CrVI emission factors are shown as 1% of the total chromium emission factor and the uncertainties are shown as 4% of the total chromium uncertainty.

TABLE AD1 - SUMMARY OF FMC SLAG RELATED HEXAVALENT CHROMIUM (CrVI) DATA

SAMPLE DESCRIPTION	SAMPLING PERIOD	PARTICLE SIZE	TOTAL Cr CONCENTRATION	CrVI CONCENTRATION	CrVI as % of TOTAL Cr
Slag Handling Operations- Fugitive Air Samples: (Range for ~160 filters)	August 1993	TSP & PM10	.23 to 738 ug/m3	ND< 774 to ND< 87500 ug/m3	ND< 100
Furnace Tap Hood Vents- Source Air Samples:	October 1993				
Slag Tapping					
A1		TSP	88.2 ug/m3	ND< 2.01 ug/m3	ND< 2.3
A2		"	275.3 "	ND< 6.35 "	ND< 2.3
B1		"	136.6 "	ND< 2.15 "	ND< 1.6
B2		"	145.1 "	ND< 1.69 "	ND< 1.2
Ferrophos Tapping					
A1		"	156.3 "	ND< 15.3 "	ND< 9.8
A2		"	421.8 "	ND< 6.85 "	ND< 1.6
B1		"	186.9 "	ND< 4.02 "	ND< 2.2
B2		"	531.3 "	ND< 2.89 "	ND< 0.5
Roads and Storage Piles- Bulk Samples Resuspended onto Air Filters:					
Slag Road	Aug. '94	TSP	417.7 ug/g	ND< 7.74 ug/g	ND< 1.9
		PM10	443.9 "	ND< 17.8 "	ND< 4.0
Kinport Rd.	"	TSP	505.2 "	ND< 18.8 "	ND< 3.7
		PM10	414.3 "	ND< 25.5 "	ND< 6.2
Entrance Rd.	"	TSP	515.8 "	ND< 9.89 "	ND< 1.9
		PM10	532.9 "	ND< 77.1 "	ND< 14.5
E. of Main Plant	"	TSP	1187 "	ND< 29.7 "	ND< 2.5
		PM10	1414 "	ND< 26 "	ND< 1.8
N./S. Intersection	"	TSP	474.6 "	ND< 12.1 "	ND< 2.5
		PM10	647.5 "	ND< 32.8 "	ND< 5.1
Mn. Gate to E. of TSP	"	TSP	424.1 "	ND< 21.3 "	ND< 5.0
		PM10	528.8 "	ND< 36.6 "	ND< 6.9
S. of Ore Pile	"	TSP	742.9 "	ND< 14 "	ND< 1.9
		PM10	851.5 "	ND< 12.8 "	ND< 1.5
Ferrophos	July '94	TSP	31970 "	315 "	1.0
		PM10	26960 "	220 "	0.8

AVERAGES (Slag Handling Fugitive Samples excluded)

All Samples	ND< 3.44
All CrVI Non-Detect Samples	ND< 3.67
All CrVI Detect Samples	0.90

NOTE: ND< indicates that CrVI was not detected in the sample. The corresponding concentrations and percentages were calculated using the analytical detection limits. If present at all, CrVI levels are less than those indicated by calculation at the detection limit.

CHESTER
ENVIRONMENTAL

Rosemary Holdsworth

April 21, 1994

Rosemary:

At the request of Art Day, I have reviewed the data in report #93-163 order to determine if any analytical anomaly may have led to the positive hit for Cr VI on 93-Q3074. This sample corresponds to the PM10 fraction of a resuspended composite of Bechtel road dust samples S0202373, S0202273 and S0282373.

This composite sample was resuspended six times: Three size fractions (total, PM10 and fine) on TEFLON for XRF analysis and three times on quartz for Cr VI analysis. Thus there are six Chester IDs associated with each Bechtel sample/composite.

The methodology used for analysis was NIOSH 7600 which is the air equivalent of the SW846 3060 digestion and 7196 analysis. The SW846 methodology used on soil samples, is extremely susceptible to positive interferences due to the color which often associated with caustic digestion of a soil sample. This problem can be corrected to some degree by digesting and analyzing two portions of a given sample in parallel. One sample has the diphenyl carbizide added while the other has an equal volume of DI water added. The absorbance of the later is then subtracted from that of the colorized sample to correct for the background color associated with the matrix.

This type of matrix problem is not as prevalent in NIOSH 7600 due to the low mass of particulate deposited of a filter, however it does exist. Since the sample has a finite mass by comparison to a bulk soil sample, the type of background correction described above is not possible without either compromising an already high detection limit or sampling in duplicate.

At the time of analysis of this particular sample batch, the analyst pointed out that the samples had varying degrees of color with the samples which could not be background corrected. She requested to arbitrarily raise the method detection limit. I prohibited her from doing this as there was no way of doing it in an objective manner. She then informed me that in her opinion, there would be false positive hits on several samples, which she felt were due to matrix effects. I instructed her to note her observations but to report the results as measured.

After being contacted by Art on this issue, I tried to find rationale to throw out the data based on interferences discussed in method 7196 (namely, iron and vanadium). Using the XRF data to confirm these concentrations, it was possible that these species might be responsible for a false positive hit for Cr VI, however in checking this logic on samples which did not exhibit positive Cr VI detects, I found instances of higher concentrations of iron and vanadium found samples with Cr VI nondetects. If the matrix has caused the problem, it is more probable that it is caused by the caustic hydrolization of organic soil components.

I have attached analytical results for the XRF and Cr VI analyses associated with this sample, as well as the raw data for the Cr VI for your review. If there is a way to void this result I can't find it with sound reasoning, yet all parties involved feel that Cr VI is not present.

Please call if you have any questions.

Sincerely,

Tim Barkowski

12242 Southwest Garden Place
Tigard, Oregon 97223
503-624-2773; Fax 503-624-2653

Tim Barkowski

Appendix AL

Responses to EPA Comments on the September 1994 Modeling Study

Responses to EPA Comments

AL-1 INTRODUCTION

EPA provided two sets of comments on the report titled *Characterization of Ambient Air Quality in the EMF Site Study Area* (Bechtel, 1994k). The first set (EPA, 1994a) was issued on November 13, 1994. Additional comments (EPA, 1995b) were issued on January 9, 1995.

This Appendix presents responses to each EPA comment. Section AL-2 addresses the main set of comments, which were issued on November 13, 1994. Section AL-3 addresses the additional comments.

Meetings were held with EPA on November 11, 1994, January 26, 1995 (by teleconference), and February 23, 1995 to discuss these comments and other tasks in progress on the EMF air pathway investigation. Conference notes summarizing discussions and agreements reached at these meetings are reprinted in Appendix AM. The Companies believe that all comments have been properly and fully addressed. This appendix is presented to document the discussions and agreements reached with EPA and the IDEQ on these comments.

AL-2 COMMENTS ISSUED ON NOVEMBER 13, 1994

EPA provided general and topic- or page-specific comments on the 1994 modeling study (Bechtel, 1994k). These general comments are discussed in Section AL-2.1. Topic- or page-specific comments are discussed in Section AL-2.2.

AL-2.1 GENERAL COMMENTS

EPA Comment # 1

> *There still appears to be a great deal of uncertainty in identifying the types and sources of airborne contaminants released from the facility. As an example the Radian calciner emissions study, referenced in the report, mentions that briquettes were analyzed for radionuclides and only about 25% of the radioactive elements are volatilized. Given that a portion of the remaining 75% goes to the slag, it is unclear as to where the remaining fraction goes. An accounting of the airborne COPC's is critical to the development of an adequate risk assessment and feasibility study. Information must be provided on how and when this fundamental gap in the conceptual site model will be addressed.*

Response

At the November 30, 1994 meeting with EPA, FMC proposed to develop a material balance characterizing the overall industrial process. EPA agreed that the balance should obtain closure on the major constituents present in the industrial feedstocks, byproducts, and wastes, such as calcium and total phosphorus, and that balance closure at approximately 75% or more was acceptable for trace level constituents, such as arsenic, given analytical uncertainties associated with these constituents. EPA indicated that a similar analysis of the Simplot process was not necessary.

Preliminary results were presented to EPA at a February 23, 1995 meeting. FMC submitted a full report to EPA in March, 1995 (FMC, 1995), although it has been submitted to EPA as Confidential Business Information, because it contains data on production rates.

The primary purpose of the balance was to determine the degree of closure and the fate of trace impurities entering the plant through feedstocks. The balance used mostly 1993 process data and analytical results for samples collected during 1993, including the Radian calciner emission study. It addressed major process streams of feedstock inputs (ore, coke, and silica) and product/by-product outputs (phosphorus, ferrophos, slag, CO gas/flares, pond sediments, and calciner cooler/scrubber stacks). In addition to the six major constituents (phosphorus, silicon, carbon, fluoride, calcium, and iron), a series of 27 trace elements, including five radionuclides, was included in the calculations.

The overall process flows closed, or balance, within 99.8% of the total inputs. All of the six major elements balanced within approximately 90% closure. Twenty-five of the 27 trace elements found in the process streams balanced within 75% closure of the total stream flow. The remaining two elements were within 68% closure. Uncertainties associated with analytical accuracy and with elements detected in materials near analytical detection levels were the primary cause of imbalance.

Slag is the largest output stream, at approximately 64% of the total output. Slag also contains the greatest mass and distribution of trace elements. For comparison, phosphorus product is approximately 8% of the total output and ferrophos is approximately 2%. Accumulated pond solids, about 3% of the total, were calculated by difference between the incoming and outgoing wastewater streams to each impoundment. The remaining 23% was CO offgas/flares.

With respect to the radionuclide balance raised in the comment, 3 of the 5 radionuclides—radium-226, uranium-238, and thorium-230—were found to concentrate in slag. Polonium-210 and lead-210 are too volatile to become part of the slag in large amounts, and instead are associated with calciner scrubber pond sediments and electrostatic precipitator dust managed in Pond 16S. Radionuclide mass emissions are minute relative to the solid and aqueous process streams.

The data presented in FMC (1995) provide a good characterization of constituent distribution within the process and its components, including emissions.

EPA Comment #2

A critical issue associated with the use of the present inventories to define potential remedial actions is one of consistency with the inventories used in the PM10 SIP presently under development. Because we have not checked emissions estimates for each particular source against those contained in previous SIP analyses, we are not sure how well these inventories agree or disagree. As discussed below, slag handling emissions are estimated to be roughly 30 times lower (on an annual basis) in the subject annual inventory than those contained in the SIP inventory. This difference could be significant when decisions related to if and how much control are to be made by each program (CERCLA and Air). There may be similar discrepancies throughout the inventory that could potentially go undetected without a thorough review. In order for the agency to better understand these differences, and the rational behind them, we request you provide us with a comparison between the inventories and the supporting rationale.

Response

This comment was discussed with EPA at a November 30, 1994 meeting. The Companies recalled their previous disagreement with several aspects of the 1992 SIP inventory. These objections were based on the use on unrepresentative assumptions to characterize emissions from several sources, such as the slag pit. The Companies proposed to EPA in 1993 that they collect emission characterization data for 7 sources, in order to resolve uncertainties. The results of these studies are described in Section 3.3 of Part III, Volume 2 of the RI Report.

At the November 30 meeting, the Companies noted that there were at least 5 editions of the SIP inventory in circulation during 1992 and 1993. The Companies requested that EPA identify the edition to use as a basis for the comparison requested in the comment. The Companies agreed to identify differences between this 1992 SIP inventory and the CERCLA inventory used in the modeling study. EPA provided an electronic copy of the appropriate 1992 SIP inventory in January 1995.

The results of this comparison are presented in Section 3.3.10 of Part III, Volume 2 of the RI Report.

EPA Comment # 3

The introductory section presents an opinion that risks (under CERCLA) should be derived only from emissions from sources that are not currently characterized as "federally-permitted releases. " Risks from all contributing sources (permitted and non-permitted sources) will be derived to determine overall risks associated with site activities. From the list of contributors, only those sources deemed to fall under CERCLA jurisdiction would then be considered for potential remedial actions during the risk management evaluations. Evaluation of risks from a limited number of sources (as is being suggested by the PRPs) will ultimately provide an incomplete characterization of risk. Consequent remedial actions (or lack thereof) would likely be inadequate to achieve the desired goal of reducing overall risks posed by site-related activities.

Response

In discussions with EPA, the Companies agreed that such an identification of sources is complex. The Companies propose that this subject be addressed during the feasibility study process, if appropriate. The emission inventories presented in the EMF RI Report, as in the September 1994 modeling study, address all sources, regardless of their permitted status.

EPA Comment # 4

The introductory section makes a couple of statements that we find a bit puzzling. Page 1-1 of the report states that (in the PRPs' opinion) "most if not all" emissions sources reflected in the subject report are "federally-permitted releases" as defined under CERCLA and would not be subject to remedial action requirements. Later in the same paragraph it is stated that the PRPs expect to be working with EPA in the near future to "specifically identify these sources and quantify their emissions." This second statement suggests that the bulk of the emissions from sources contained in the modeling analyses may not be quantified adequately in the minds of the PRPs (our own concerns about the inventory notwithstanding). If this is the case, it raises serious questions as to the ultimate usability of the results of the subject analyses. At a minimum, the PRPs should clarify what the above-mentioned statement is intended to mean.

Response

The Companies did not intend to imply that there was any uncertainty or inadequacy in the characterization of emissions. The Companies' intent was to begin a dialogue with EPA on the identification of federally-permitted sources and associated emissions. However, as noted in the response to comment # 3, the Companies subsequently believe that a categorization of sources based on permitting status is not relevant during the remedial investigation phase of the program, although it might be relevant during the feasibility study.

EPA Comment #5

> *The report repeatedly refers to additional modeling analyses which will be conducted, with results to be presented at later dates (presumably to be included in the RI report). EPA's concern with this approach is that some of the analyses (such as the "case studies") are critical in defining confidence in the modeling for characterizing impacts from the site. As will be discussed below, we have some serious concerns about the model performance work conducted. We would strongly recommend that all additional modeling analyses be completed as soon as possible (pending any changes that may be warranted) and provided for informal review prior to submittal of the RI report.*

Response

An outline of the case study analysis report was provided at the November 30, 1994 meeting. Preliminary results were presented at the February 23, 1995 meeting. The final case study analyses are presented in Appendix AJ of Part III of the EMF RI Report.

The case study analysis process proved to be beneficial in refining the emission inventories used in the dispersion modeling. Review of the model output source contribution lists for the case studies initiated a review of the characterization of the modeled sources. This review resulted in a revision of the baseline inventory that improved model performance results. This was shown in the results presented to EPA in the February 23, 1994 meeting.

The September 1994 modeling report also referred to three additional modeling studies to be reported in the EMF RI Report. These were: an analysis of an atmospheric stagnation episode

using the WYNDvalley modeling code; a soil deposition analysis; and an analysis of historic emissions.

During discussions with EPA, it was agreed that the WYNDvalley code was inappropriate for use (reference conference note for the November 30, 1994 meeting in Appendix AM). Analysis of an atmospheric stagnation episode has, instead, been performed using the ISC/FDM codes; the results are presented in Appendix AJ of the EMF RI Report.

EPA also agreed that an analysis of soil deposition and historic emission were not necessary for the RI Report, and that they could be performed, if necessary, during the feasibility study.

EPA Comment # 6

EPA has significant concerns that the modeling contained in the subject report is not providing a good characterization of impacts from site-related emission sources. It is our feeling that the modeling is underestimating ambient air impacts from the sources at the facilities. This concern is based on the manner in which the model performance analysis was conducted, whereby maximum daily emission rates were used to predict concentrations for comparison with measured values.

As you are aware, the ambient air concentrations measured during the course of the monitoring program reflect impacts associated with actual emissions from the facilities, as well as actual emissions from other sources not associated with the site. These measurements reflect real-life activities, such as upset conditions, variations in process throughputs, equipment down times, wind blown dust events, etc.

By modeling all site sources at their maximum rates (which does not reflect real operating conditions), one would expect modeled impacts to be well above those embodied in the ambient monitoring record. Review of the model performance analysis shows no such behavior, not even at the near-field monitor locations where it would be expected to be most pronounced. This suggests to us that if the sources were modeled in a way that attempted to simulate actual conditions (lower than minimum rates), the performance analysis would reveal a significant model underprediction bias.

Because the same general assumptions associated with estimated emission rates and source characteristics are embodied in the results provided for use in the risk assessment, we believe that risks associated with the air pathway are likely to be underestimated. While this is likely to pose problems with the present risk assessment

schedule, we would strongly recommend that the model performance component of the analyses be revised to provide a comparison of measured ambient concentrations with modeled impacts reflecting a more realistic characterization of actual operating conditions at the facilities. Without such an analysis, it is difficult to determine the validity of the emissions inventories or usefulness of the modeling for defining impacts (and associated risks) from site-related activities.

Response

The Companies believe that EPA's comment is based on a misunderstanding of the September 1994 modeling report (Bechtel 1994k). The Companies explained in a series of discussions with EPA that they shared EPA's view that the inventories should reflect typical emissions rather than maximum potential emissions. With hindsight, the use of the term "maximum 24-hour emission" in the September 1994 modeling study was misleading. Contrary to EPA's comment, the 24-hour emissions modeled in the September 1994 study were not the maximum potential emissions from any given source. Rather, they were the typical emission from that source. The confusion reflected in the comment may be based on how these typical daily emissions were modeled. The September 1994 modeling study predicted 24-hour maximum ambient constituent levels using the assumption that all sources within the facilities were emitting at their typical daily level on any given day.

It was believed that this approach might overestimate predicted daily ambient air concentrations because all sources may not typically operate on a given day. For example, asphalt batching does not occur at BAPCO on every day. However, the daily emissions characteristic of asphalt batching (provided in the IDEQ SIP inventory for BAPCO) were used in modeling daily emissions because there were no records available on when batching occurred.

The intent of the case study analyses (discussed with EPA on November 30, 1994) was to evaluate the sensitivity of this approach by modeling facility operations on days when the baseline model either over- or underpredicted ambient concentrations. It was believed that this process would lead to a refinement, if necessary, in the modeling strategy. As discussed in

Appendix AJ, the case study process proved to be effective. It resulted in changes in the baseline inventory and modeling parameters that allowed the model to more closely simulate typical emissions from the facilities as a whole. For example, redundant sources that could not operate in tandem where identified, and only the individual source with the highest emission rate was assumed to be operating. Also, sources that operate sporadically, such as the nodule reclaim stockpile, were removed from the daily model and represented in the average annual model at its average annual emission rate.

The term "maximum 24-hour" emission has been replaced with the term "daily emission" in the revised modeling study, in order to eliminate future misunderstandings.

The Companies would also point out that, contrary to the EPA comment, there was no "significant underprediction" of constituent concentrations in the September 1994 modeling study. Nor does the revised model underpredict constituent concentrations. The Companies believe that this perception is based not on an actual comparison of model-predicted and monitored levels, but rather on EPA's misunderstanding of the term "maximum 24-hour emission" for the reasons presented earlier in this response.

However, the daily emission inventory should not be viewed in isolation. The average annual emission inventory is a better tool for predicting typical ambient constituent levels. As discussed in Section 5.3 of Part III, Volume 2 of the RI Report, predicted average annual constituent levels are very similar to monitored average constituent levels. This is an indication that the dispersion model and related emission inventories will serve the purpose for which they were created—to support the feasibility study by identifying culpable sources and by serving as a framework to evaluate remedial action alternatives.

AL-2.2 SPECIFIC COMMENTS

EPA presented specific comments on three topics. Comments on the emission inventories are reviewed in Section AL-2.2.1. Section AL-2.2.2 discusses comments on modeling methodology. Dispersion analysis result comments are reviewed in Section I-2.2.3.

AL-2.2.1 Emission Inventories

Comments #7 through #25 concerned the emission inventories.

EPA Comment #7

> *As indicated above, the maximum 24-hour inventory contained in the report is inappropriate for use in evaluating model performance relative to measured concentrations.*

Response

The Companies understand that this comment is related to EPA comment # 6. The Companies believe that the approach used in the September 1994 modeling study to evaluate model performance was consistent with EPA guidance. This same approach has been used to evaluate model performance in the revised modeling study.

As explained in the response to comment #6, the term "maximum 24-hour inventory" may have been misunderstood. Please refer to the response to comment #6 for further discussion.

EPA Comment # 8

> *Section 3.0 of the report indicates that annual-average emission rates were based on typical operating conditions over the course of the year. The report does not provide a discussion of the information used to define a typical year of operation. Is it based on the last 5 years of operation? Is it based on production levels over the last year? The PRPs should provide additional documentation/discussion of how typical annual operations are defined. Based on informal discussions with Bechtel, it is our understanding that the annual characterization of emissions is based on a single year of operation at each facility. In order to evaluate the potential long-term risk associated with operations at the site, we would recommend that 'typical' annual production rates be based on a longer period of operation. (e.g., 2 to 5 years).*

Response

Please refer to Section 3.1.2.2 of Part III, Volume 2 of the RI Report for a definition of the typical year used in the modeling study. As stated in that section, the typical year used to characterize emissions in the modeling study was the period between October 1993 and October 1994, corresponding with the period of operation of the ambient air monitoring program. That section also compares production rates during that period with the production rates over the past five years reviews.

The Companies believe that EPA's recommendation to base emissions on the past 2 to 5 years of operations would be inconsistent with the main purpose of the modeling program—to simulate facility emissions during the period of ambient air monitoring. Selection of a different time period would cause the model predictions to be unrepresentative of actual conditions reflected in the monitoring data collected between October 1993 and October 1994. If the model is not representative, it is possible that culpable sources could be misidentified, leading to a potentially misfocused analysis of remedial action alternatives.

EPA Comment #9

> *Emissions for the FMC furnace tap hoods are based on source tests conducted on the tap hood vent of the #4 furnace in October 1993. This work is referenced in two reports which were not included in the subject report. As a consequence, it is difficult to determine the validity of the numbers presented or their applicability to tapping activities from any or all 4 of the FMC furnaces. Table 3-4 presents a summary of the results of the tap hood vent testing, providing estimated hourly emission rates. The report provides no information that would indicate emission rates are not related to general production/throughput rates. It is not clear that an hourly emission rate derived from source tests would be applicable to all levels of production. At a minimum, additional information should be provided with respect to the relationship between emission rates derived from source testing, and process rates.*

Response

The characterization of furnace tapping emissions was performed over the course of several days in October 1993 by Chester Environmental, Inc., on behalf of FMC, and a full report on the sampling program was presented to EPA (Chester 1994a, 1994b, and 1994c). Samples of furnace tapping emissions were collected over a period of five consecutive days. A total of 56 test runs were conducted. Also, four replicate runs were conducted for each type of emission tests; this exceeded EPA's Reference Methodology for stationary source emissions, which require 3 replicate tests to demonstrate compliance with permitted emission limits. The results of the characterization study are summarized in Section 3.3.1 of Part III, Volume 2 of the RI Report.

A supplemental discussion of the representativeness of the characterization results was delivered to EPA by TRC, Inc. (the successor to Chester Environmental, Inc.) at a meeting on February 23, 1995 at EPA's offices.

The amount of burden (burden is a term used to describe the standard mixture of ore, coke, and silica added to the furnace) processed in an electric arc furnace at FMC correlates with electric power utilization in the furnace. Power utilization also correlates with the amount of slag withdrawn from the furnace. Based on their history of operating experience, FMC has developed a correlation factor that equates electrical loading to slag production.

FMC has also related MW as the indicator of good operating practice for the furnaces. The data show that furnace #4 was operating in a typical and representative manner with respect to both production standards and the productivity of the other 3 furnaces during the period of testing.

FMC believes that the characterization of furnace tapping emissions performed in October 1993 is representative of typical furnace operations.

EPA Comment #10

Emissions related to slag handling activities at FMC have been estimated using the results of testing conducted in August 1993. The test report received a limited review by EPA, more in the context of the SIP work than the CERCLA work. Our condensed summary of the comments generated from that review are that the test results should not be viewed as particularly valid in defining an absolute lb/ton of slag emission rate, but may be useful in defining the chemical make-up of the emissions (if the analytical work is up to snuff).

Because we have not yet undertaken any review of the analytical part of this work, we are uncertain as to the reliability of the chemistry information. Particularly noteworthy is the lack of fluoride detected in all samples collected. This could possibly be more a function of the sampling method and the detection limit of the analytical method employed than the lack of fluoride in the emitted plumes.

We believe that the significant issue here is that the emissions from slag handling activities are extremely variable and they are being characterized by a very limited number of non-standardized tests (either 1 or 2 tests per activity). The degree of uncertainties associated with the emission factors derived from the testing are probably much larger than those presented in the source test report. In many cases, the reported uncertainties are already larger than the average estimated emission factors themselves.

As an additional note, PM_{10} emissions from slag handling activities used in the SIP modeling analyses were roughly 30 times higher than the values presented in the subject report. While we do not expect the analyses to be mirror images of each other, this large a difference makes it difficult for the agency to draw any meaningful conclusions from the data for emissions from slag pit-related activities.

Response

FMC previously noted its disagreement with the emission characterization of slag handling included in the 1992 SIP inventory. EPA had estimated slag handling emissions in the 1992 SIP inventory using assumptions derived from the iron and steel industry which FMC does not believe are applicable to the Pocatello plant. As discussed in the response to EPA comment #2, FMC sampled slag handling emissions in 1993 to remove the uncertainties associated with the 1992 SIP inventory.

FMC has agreed to resample slag handling emissions in light of EPA's comments on the 1993 slag handling emission characterization, although it believes that the data obtained in 1993 are adequate. A sampling protocol was proposed to EPA on April 10, 1995, and sampling will be conducted upon EPA approval.

Fluoride was not detected in the 1993 emission characterizations, but detection levels for some sources were high due to small sample volume. In response to EPA's comment, fluoride emissions were added to sources associated with FMC furnace tapping and slag handling.

Average fluoride levels measured in cold slag (reference Section 4.2.3 of Part II of the RI Report) and particulate phase fluoride levels in the tap hood vent identified by Chester Environmental, Inc. were combined to establish fluoride levels in PM_{10} and TSP fractions. The cold slag concentrations ranged from 1.24 to 1.78% wt., with an average of 1.58% and standard deviation of 0.18%. The tap hood vent samples showed detects at no more than 1.7% wt. of the total particulate measured, with an average of 1.0% and a standard deviation of 0.39%.

Combining both data sets provides an average fluoride content of 1.35% of the total particulate mass. Using this value with the particulate levels detected in the characterization studies provides the fluoride emissions shown in the inventory.

EPA Comment #11

> *Tables 3-6 through 3-14; Fluoride is present in furnace tapping fugitive emissions and virtually everything but fluoride was found in slag handling emissions. This difference should be explained. Was the detection level for fluoride used in the slag handling studies adequate?*

Response

Please refer to the response to comment # 10 for a discussion of fluoride emissions.

EPA Comment # 12

Table 3-6; Why are a number of the emission factors for PM_{10} higher than those for TSP?

Response

FMC explained at a meeting on November 30, 1994 that the higher of the two values was used as a conservative approach in the emission inventory. The text of the modeling report has been revised to reflect this.

Most PM_{10} emission factors were lower than TSP factors. Eleven (silver, barium, germanium, nickel, lead, rubidium, sulfur, antimony, tin, zirconium, P_2O_5) of the 40 constituents for which comparisons can be made were higher in the PM_{10} fraction. However, most of these constituents are present at such low concentrations that comparison between PM_{10} and TSP fractions is not particularly meaningful.

EPA Comment # 13

Table 3-19: The table shows that PM_{10} and TSP are lower in the revised inventory than in the 1992 inventory, however the text says the opposite. This discrepancy should be corrected.

Response

This passage in the text of the September 1994 modeling study was incorrect. The text of the revised report has been corrected to reflect the information provided in the tables.

EPA Comment #14

The revised inventory of emissions from paved and unpaved roadways are significantly lower than those contained in the January 1993 modeling report. It appears that the differences are primarily attributable to silt content and silt loading sampling conducted at the two facilities. Unfortunately, supporting information for the silt content and silt loading values are not contained in the report to ascertain their appropriateness for use. The values used in the calculations are significantly lower than

values used in the development of the emission factor equations, raising questions about their derivation.

In addition, no sampling was conducted to determine appropriate silt contents and chemical makeup for unpaved roads on the Simplot facility. It is unclear why these roads were not sampled. At a minimum,, the PRPs should provide all supporting information related to roadway surface sampling activities. An explanation of why unpaved roads at the Simplot facility were not sampled should also be provided.

Response

This information was forwarded to EPA in May 1995.

EPA Comment #15

If the daily emission rates contained in the inventory are intended to represent maximum rates, the precipitation adjustment factor should be dropped from the unpaved road emission factor equation for the daily calculations.

Response

The Companies agree with the comment. No precipitation adjustment factor has been included in the revised daily emission inventories for unpaved roads and open-air stockpiles. It should be noted, however, that the deletion of this factor will cause road dust and stockpile emissions to be overstated on days with precipitation.

EPA Comment #16

Hexavalent chromium was detected in a single roadway dust sample collected at the Simplot facility, which was confirmed in the data validation process. The PRPs have argued that operations at Simplot are not conducive to the oxidation of chromium to the hexavalent state. Information should be provided to explain this discrepancy.

Response

Hexavalent chromium was detected in only one of three size fractions of this sample. The Companies indicated at the November 30, 1994 meeting that that the sample in question was

considered by both the analytical laboratory and data validators to be a false positive. As explained in Appendix AK of Part III of the RI report, this false positive is believed to be attributable to matrix interference in lab analysis.

EPA Comment #17

Emissions from the Simplot granulation #2 baghouse were estimated using results of source testing conducted in 1993. The report does not present the documentation of the work conducted (or a citation of that work). For completeness, we request that the PRPs provide a copy of the source testing report in support of the emissions calculations contained in the present modeling report.

Response

A copy of the characterization report was forwarded to EPA on December 19, 1994.

EPA Comment #18

Looking at the spreadsheets contained in Appendix A, we have noticed that certain throughputs used to estimate emissions are different than those contained in the earlier version of the inventory. Interestingly, some throughputs used in the 1992 inventory have been retained in the current inventory. The PRPs should provide a clarification of why certain throughputs have changed (and others have not) between now and the 1992 inventory.

Response

At the November 30, 1994 meeting, EPA agreed to forward a list of the differences referred to in the comment. The Companies agreed to clarify the basis for the differences. This list was provided in EPA additional comments issued on January 10, 1995. Please refer to Section AL-2, response to EPA comment #6.

EPA Comment #19

Appendix A: Emission calculations for J.R. Simplot Stockpiles: It appears that the only particulate emissions estimated for the gypstack are associated with raising the dikes and that emissions from the gypstack slopes were assumed to be zero. This does not

seem to be a reasonable assumption. The gypstack slopes constitute a large area that is unvegetated and exposed to wind erosion. EPA recognizes that when the gypsum is left undisturbed it forms a crust which reduces it susceptibility to wind erosion, however particulate emissions form these areas are unlikely to be zero, and in view of the large elevated areas involved, the aggregate emissions could be substantial. A more realistic characterization of emissions from the gypstack slopes must be provided.

Response

This comment was discussed at the November 30, 1994 meeting, and Simplot understands that EPA & IDEQ agreed that the characterization of the gypstack was appropriate.

EPA Comment #20

It is not clear how emissions factors derived from source tests with units of lb/hour are applicable to the potentially wide range of operating conditions at the facilities. Do these rates correlate with operating levels, or are they completely independent of the amount/rate of materials being processed? Do such emission factors represent minimum mass emission rates under full load conditions? The PRPs should provide additional information relating the emission factors used in the inventory to operating conditions reflected in the source test data.

Response

The 1992 SIP inventory also contained emission factors in units of both lb/hr and lb/ton. The CERCLA inventory used in this modeling effort characterized emissions from the EMF facilities in a similar manner.

Some emission rates are not directly correlated with industrial production rates at either facility. In many cases, emission factors are in units of lb/hr (usually a source test). This indicates that emissions from that source are not production-rate-based; rather they are based on the operational hours of that source. In instances where emission factors are in units of lb/ton, emissions are based on a production rate.

An example of production-rate-based emissions are the Granulation #3 area source emissions at Simplot (emission factor of 0.02 lb/ton). An example of an emission rate based on hours of operation is the dust silo baghouse at the FMC facility (3.1 lb/hr).

Area emissions from a source such as Granulation #3 will vary depending on the amount produced. Typically, emissions will increase when more material is processed, and decrease when less material is processed.

On the other hand, sources such as a baghouse or controlled stack have emissions that are not dependent on the amount of material handled by the process. Baghouses, for example, have emissions which are a function of the air flow through the fabric and the fabric collection efficiency. Emissions from the exit side of the baghouse remain relatively constant for the same air flow and are independent of variations in the feed rate of the process being controlled.

EPA Comment #21

> *The emission inventories were developed using an outdated technique for estimating wind erosion from industrial storage piles. A 1990 revision to AP-42 (see Section 11.2.7) provides an updated approach to evaluating windblown dust from storage piles. This technique affords a means of evaluating windblown dust emissions on a daily basis whereas the technique used in the present study yields an annual characterization which is difficult to translate to daily levels. At a minimum, the PRPs should provide a justification for the use of the outdated technique. Short of that, we would recommend that the updated technique be employed using fastest mile data collected at the airport. This technique will provide for an improved treatment of the daily variability of windblown dust which is likely to be useful in the "case study" modeling to be conducted.*

Response

The comment implies that the technique used to compute wind-blown emissions from stockpiles was incorrect and contrary to EPA guidance. This is not the case. The method used in the September 1994 modeling study (AP-42, Section 11.2.3) continues to be applicable to characterization of such emissions; EPA has not withdrawn it from use nor superseded it with

another method. The procedure recommended in the comment (Method 11.2.7) is designed to characterize emissions at stockpiles from which material is actively withdrawn from the surface of the stockpile, such as a large coal pile at a coal-fired power plant. There are no open-air stockpiles of this character at either the FMC or Simplot facilities.

This subject was discussed with EPA during a teleconference on January 26, 1995 and at a meeting on February 23, 1995. During the teleconference, it was agreed that the Companies would attempt to apply method 11.2.7 to characterize emissions from one stockpile, as a trial evaluation. The nodule reclaim stockpile at FMC was selected. The results of this effort were discussed at the February 23, 1995 meeting.

The Companies indicated that the data needed to apply this method were not available. The data needed include: the fastest mile wind speed; the size and shape of the pile on a daily basis; the frequency of pile disturbance; and the area of the pile disturbed during each event. Also, the method was likely to understate emissions because it assumes that the storage pile only emits when the surface is disturbed, and over a very short time period. The methodology provided in AP-42 Section 11.2.3 is more appropriate for dispersion modeling purposes since it allows for estimation of constant steady-state emission rate, which are required by the model.

After this presentation, EPA agreed that further consideration of this comment was unnecessary.

EPA Comment #22

Page 3-42, section 3.5.3, 3rd bullet: It appears that the CO and secondary condenser flares have not been evaluated for metals or radionuclides. Why have these constituents been excluded from the analysis? For lack of this kind of data we believe that it would be more correct to assume the metals content of the CO and secondary condenser flares are similar to phossy water pond solids (8S, 15S).

The phossy pond solids presumably contain constituents condensed from the furnace gas downstream from the electrostatic precipitators, therefore it seems reasonable to assume that the gas stream downstream from the condensers, which goes to the flares, has a composition similar to that found in phossy water solids. The same type of assumptions has been used elsewhere in the emission inventory. The phossy water

solids contain substantial amounts of several COPCs. The concentrations of some of these constituents expressed as a fraction of the phosphorus content are as follows: antimony = 0.005, arsenic = 0.004, cadmium = 0. 027, fluoride = 0.38, lead-210 = 0.01, and zinc = 0.48.

If these flares emit substantial amounts of phosphorus as P_2O_5, it would appear that they could also emit substantial amounts of some of these other constituents, particularly fluoride and zinc and probably Po-210 and Pb-210 [Radian Corporations 1993 report " Secondary Scrubber Compliance Test" states that the calcined briquettes that are fed into the furnaces contain considerable concentration of radionuclides- 25+ pCuries/gram]. Since the combustion gases from these flares are buoyant sources, they have a potential for widespread dispersion.

Therefore it is especially important to obtain the best estimates possible of the composition of these emissions. If the composition of the phossy water solids is too confounded by furnace building washdown, etc., perhaps a trace metal analysis of the elemental phosphorus product could be used to estimate flare emissions.

Response

As discussed at the November 30, 1994 meeting, FMC has estimated metal emissions from these sources using data on the composition of metals in the P_4 product. FMC demonstrated that the composition of the phossy water was inappropriate for the purpose suggested in the comment. An analysis of radionuclide emissions for sources throughout the FMC facility was performed by EPA (EPA, 1978b). This analysis indicated that radionuclide emissions from the CO flares were negligible. Consequently, no radionuclide emissions from these sources have been added to the revised inventory.

EPA Comment #23

Section 3.5.1 provides a list of sources that were assumed to emit negligible (i.e., no) emissions of trace metals because information related to the chemical makeup of emissions from these sources were not available. As we indicated in our comments on earlier modeling analyses, lack of information cannot be used as a basis for defining the relative significance (or insignificance) of any given source. At a minimum, the PRPs should provide the rationale for including these sources from the evaluation of impacts from the site. There may be some justification for their exclusion based on the specific materials handled/treated at these different source areas. Without a reasonable

justification for excluding these sources, we recommend that the chemical makeup of these sources be determined. Without knowledge of their chemical makeup, it is difficult to determine if the current treatment of these sources can be supported.

Response

The bases for assuming negligible emissions from these sources are presented in Section 3.6.1 of Part III, Volume 2 of the RI Report.

EPA Comment #24

Section 3.3.1 indicates that fugitive emissions from certain sources are based on assigned capture and control efficiencies. Unfortunately, the report fails to indicate the methodologies/data sources used to derive the capture and control efficiencies embodied in the present emissions inventories. At a minimum, the documentation of the inventories should include the identification of the methodologies used to derive the presently used capture and control efficiencies. All supporting calculations should be included in the inventory documentation.

Response

Calculation of fugitive emissions from sources with assigned capture and control efficiencies (CCE) used CCE values specified in the 1992 SIP, when no more accurate information was available.

EPA Comment #25

Section 3.3.2 states that four sources at the FMC facility were modeled as volume sources. First, the report fails to contain the rationale for treating these four sources in a manner that is different from other sources at the facilities. The reasoning for the present treatment of these sources should be provided. Second, we were unable to determine how the volume sources were defined in the FDM modeling. This should also be provided.

Response

In the September 1994 modeling study, four FMC sources were modeled as volume sources. Model elevation heights for the slag pit, proportioning building, furnace building, and the

briquetting building were 0, 20, 20, and 20, respectively. This was originally done in the 1992 modeling study (Bechtel, 1993a) at the advice of Mr. Ken Richmond of TRC, Inc., who was then a consultant to EPA's program office dealing with the SIP program.

Since the September 1994 modeling study, an additional 16 sources have been modeled as volume sources. This is discussed in Section 3.4.1 of Part III, Volume 2 of the RI Report.

AL-2.2.2 Modeling Methodology

Comments #26 and 27 concerned the methodology used in the modeling study.

EPA Comment #26

> *Modeling was conducted using a year of meteorological data which contains a three month period (July-September 1993) where sigma theta (an estimator of atmospheric stability) values were calculated using a technique which is different from that recommended in current Agency guidance. To provide a measure of the potential differences between the Agency-recommended technique and the one used for this period, the PRPs have agreed to provide an evaluation of the differences in estimated stability classes using the sigma theta valued derived from Site l data and cloud cover and ceiling height data from the airport. Until this evaluation has been completed, it is difficult to determine the reliability of the modeling results.*

Response

The difference in air stability classification obtained by the method used in the September 1994 modeling study for the period July-September 1993 and that recommended by EPA Region 10 was determined. The results, which were presented to EPA on November 30, 1994, are reprinted in Appendix AM. There was approximately a 10% difference in stability class assignations. The approach used in the September 1994 modeling study was conservative in comparison with the alternate method.

However, this topic is moot, because all sigma theta data used in the revised modeling study have been calculated using the procedure recommended by EPA.

EPA Comment #27

The report states that an evaluation of an extended stagnation episode in December 1985 will be conducted using the WYWDvalley model. We would like to once again indicate that this modeling exercise will not be relied upon to generate reliable absolute concentration values for use in any risk calculations. This cautionary note is provided because the analysis will be using the modeling in a way that is not really intended to be used; in the evaluation of point source impacts.

We see the results as a tool by which general concentration levels during stagnation periods can be compared, in a relative sense, with those generated using the standard modeling approaches which are not capable of simulating impacts during calm wind conditions. The WYWDvalley analysis is likely to reveal very high concentrations at locations close to the site. This will vary more as function of the model's treatment of the sources and the dispersion of their emissions than as a reflection of realistic impacts. As with all additional analyses to be conducted, we recommend that this analysis be provided for review (formally or informally) before it is submitted in the RI report.

Response

The applicability of the WYNDvalley modeling code for evaluating an atmospheric stagnation episode was discussed with EPA and IDEQ over the course of November 1994 through January 1995. The Companies were concerned that the use of this code would provide ambiguous results for several reasons. First, the code is not suited for evaluation of point sources, such as those present at the EMF facilities. Second, the areal grid spacing imposed by the computer program is too large to simulate localize emission points and near-field impacts, which as noted in EPA's comment, lead to mathematical overstatement of impacts. Finally, the Companies noted that there were insufficient ambient air monitoring data obtained near the EMF facilities during the December 1985 stagnation episode. Consequently, any model simulation of this event could not be evaluated against relevant monitoring data.

As an alternative, the Companies agreed to evaluate a stagnation episode, identified by IDEQ, that occurred during the period of ambient air monitoring. IDEQ subsequently requested that the period around January 20, 1994 be evaluated. The Companies proposed that the ISC/FDM

modeling code used for the baseline modeling program also be used to evaluate facility impacts during this episode. EPA and IDEQ agreed with this proposal. The results of this analysis are presented in Appendix AJ.

AL-2.2.3 Dispersion Analysis

Comments #28 through 40 concerned the results of the dispersion modeling analysis or the calculation of constituent background levels from data obtained through the ambient air monitoring program.

EPA Comment #28

> *The report cites a reference (Gilbert, 1987) which was used to develop estimates of background concentrations This report/paper is not identified in the reference section of the report. We request that this reference be provide by the PRPs.*

Response

The citation was omitted from the reference list in the September 1994 modeling study. As reported to EPA at the November 30, 1994 meeting, the citation is: Gilbert, Richard O., *Statistical Methods for Environmental Pollution Monitoring,* Van Nostrand Reinhard, New York, 1987, pages 164-173.

EPA Comment #29

> *In general, the approach used to identify "upwind" (aka background) concentrations seems reasonable. However, it is difficult to determine the criteria used to conclude that site-related impacts were not evident in the sampling days selected. Were attempts made to develop correlations (which did not exist) between near-site measurements and more distant measured values? Furthermore, it is not readily apparent that the concentrations measured at Sites 3 or 4 were included in the derivation of the background values applied to the modeling results. Finally, there are some discrepancies between the criteria used to define conditions when Site 6 was "upwind" and when Sites 3 and 4 were "upwind" (compass sectors considered, acceptable number of hours outside the sector).*

We recommend that clarification of the foregoing issues be provided by the PRPs to determine the credibility of the background levels used in the present analysis. In addition, we strongly recommend that monthly or seasonal background levels be developed to the event that such an approach can be supported by the available data. They are more likely to provide a better portrayal of impacts from non-modeled sources than the use of a single value to characterize conditions over an entire year.

Response

An analysis of correlations between monitoring results recorded at ambient air monitoring sites 1, 2, 3, 4, 5, and 7 with the distant monitoring Site #6 were presented in Bechtel 1994g.

The referenced section of the September 1994 modeling report described constituent concentrations detected at Sites 3 and 4 when these were largely upwind. However, these data were not used in defining background constituent levels. Only data from site # 6, collected when this site was predominantly upwind of the EMF facilities, were used to define background levels.

EPA Comment #30

Section 5.1.2 part 1. It is stated that the impact pattern from Po-210 is suggestive of a stack emission. What stack?

Response

The sources of the polonium-210 pattern are the FMC calciner scrubber stacks.

EPA Comment #31

Section 5.2.1: Use of the SDL for nondetects and "B" flagged data is inappropriate. Nondetects should be replace by 1/2 the SDL and "B" flagged data should not be used. Like with the soil and groundwater background data, the issue of use of the SDL vs. 1/2 the SDL would probably be moot if the empirical 95th percentile value is used as a benchmark level denoting the upper end of the background range.

Response

The Companies noted at the November 30, 1994 meeting that the "B" qualification annotation identifies metal constituents that were detected by the laboratory above the instrument detection level but before the contract-required detection level. The Companies suggested that the commenter may have misinterpreted the meaning of the "B" qualifier used for metal constituents with the "B" qualifiers commonly used by EPA to identify samples in which organic constituents were detected in laboratory blanks. None of the samples collected for the EMF ambient air monitoring program have been analyzed for organic constituents. EPA agreed at the November 30 meeting that "B-flagged" data were appropriate to include in computing background levels for metals.

The Companies also noted at the meeting that the SDL was used, rather than one-half the SDL in computing background levels for nondetected constituents to be consistent with the approach previously developed with EPA to calculate background levels in groundwater. However, the Companies agreed to use one-half of the SDL to calculate background constituent levels in air.

The Companies also tentatively agreed to use the 95 percentile of the data to calculate background, and these values were reported to EPA during the presentation of case study results at the February 23, 1995 meeting. In subsequent analyses, the Companies noted that because the dispersion model predicted average annual values, it would be more appropriate to calculate average values to evaluate model performance.

The Companies also agreed to calculate seasonal background levels. These are reported, along with the average annual background level, for each constituent in Section 4.3 of Part III, Volume 1 of the EMF RI Report.

EPA Comment #32

Page 5-9: Equation 13.13 in Gilbert is the equation for the upper 95% confidence limit on the arithmetic mean of a lognormally distributed population, which is often referred to as the "UCL". This is not the same as the 95th percentile of the population. The former value is recommended in the supplemental guidance to RAGS as a conservative estimate of the average exposure point concentration suitable for use in estimating exposures and risks. The 95% UCL can take on any value greater than the mean, even values greater than the maximum observed value, depending on the variability of the data set. Any coincidence between the '95% UCL and the upper 95th percentile of the data set would be purely coincidental. The 95th percentile value is the value EPA has been using as a benchmark representing the upper end of the range of background values, not the 95% UCL on the arithmetic mean.

Response

Please refer to the response to comment #31.

EPA Comment #33

Page 5-17, Item 5: Why is the regression equation forced through the origin?

Response

The line referred to is not a regression line. It is a line of equal correspondence (i.e., 45-degree slope) drawn through the origin for reference purposes.

EPA Comment #34

Page 5-19: Figure and text. For the 24-hour maximum for the far-field sites, Po-210 is listed as underpredicted, within a factor of 2, and overpredicted. This should be explained.

Response

The classification of polonium-210 was a function of the location of the point of comparison. A new table is presented in the revised modeling study (reference Section 5 in Part III, Volume 2 of the RI Report) to summarize model performance for each constituent.

EPA Comment #35

Pages 5-21, 5-22: As noted in the comment on page 3-42, lead-210 shows considerable enrichment in phossy pond solids which suggests that it might also be enriched in the combustion gases from the furnace and CO flares. Metals and radionuclides are not presently included in the emission inventory for these sources. Since these are buoyant, high temperature sources, emissions from them would have the potential for widespread dispersion. Efforts should be made to account for potential lead-210 emissions from these sources before assuming that the lead-210 levels are overestimated in the monitoring results.

Response

The EPA radionuclide study (EPA, 1978b) conducted at FMC stated that lead-210 emissions from the furnace and CO flares were negligible. In addition, the background characterization of lead-210 (Section 4.3.4 of the monitoring report) showed that elevated activities of lead-210 exist upwind of the facilities and that these levels were not attributable to the EMF facilities. In the case of lead-210, model results and performance are diminished/dominated by these high background levels. For this reason, the Companies concluded that emissions of lead-210 from the EMF facilities do not require further characterization.

EPA Comment #36

Model evaluation was performed comparing 24-hour average modeled concentrations and measured values. As indicated previously, the maximum daily emissions inventories used in the evaluation portion of the analysis are not appropriate for comparing modeled impacts with measured concentrations. Also, it appears that all performance statistics, scatter plots, etc., do not reflect the addition of appropriate background concentrations to modeled concentrations. Model performance should be characterized by a comparison of measured values and the sum of modeled and background concentrations. We suggest that all information related to model performance be revised to reflect this approach.

Response

The Companies had been advised by EPA (personal communication between Mr. W. Ryan, EPA, and Mr. T. Morgan, Bechtel) that model performance should be assessed (using methods outlined in Cox, 1988) by comparing model-predicted 24-hour constituent concentrations with 24-hour constituent levels detected in the monitoring program. This analysis was reported in the September 1994 modeling study.

The response to comment #6 indicates that the "maximum daily emissions" used in this analysis were, rather, the typical 24-hour constituent emission from each source, with the assumption that all sources were in operation. Please refer to the response to comment # 6 for additional information concerning daily emissions.

The September 1994 modeling study did provide a comparison of daily monitored levels with model-predicted levels that were adjusted with background, in a manner consistent with the comment. This was presented in Figure 5-24 of the September 1994 report.

EPA Comment #37

> *The report indicates that maximum modeled and measured concentrations were not included in the development of model performance statistics. This approach was taken in an attempt to remove the influence of any anomalous data from the performance testing. As indicated in the EPA comments on the January 1993 modeling analysis, maximum modeled and measured values should be included in the characterization of model performance. We recommend that the subject analysis be revised to include the maximum values.*

Response

The Companies understood from the guidance presented in Cox (1988)—see the response to comment #36—that the maximum modeled and measured concentrations should not be included in the analysis of model performance. However, these values have been included in the revised modeling study.

EPA Comment #38

The report contends that the modeling is overpredicting impacts of cadmium, chromium, and polonium-210, particularly in elevated terrain (when compared with measurements made at Site 7). As a result, the PRPs have concluded that emissions of these constituents are likely to be overstated. EPA's review of the information contained in Appendix F-l does not necessarily support that contention. Table F-S, F-6, and F-12 reveal a tendency for the modeling to overpredict maximum 24-hour average impacts in elevated terrain, but average values (which are calculated differently for the measured and monitored values) compare reasonably well. This is particularly true for polonium-210, for which there are a comparable number of modeled and measured values at all sites. A similar behavior is observed for cadmium and chromium at Site 2, where a comparable number of modeled and monitored values are reported. All things considered, we do not believe that the modeling necessarily supports the PRP's position that cadmium, chromium, and polonium-210 emissions are overstated in the present analysis.

Response

The Companies' statement was based on comparison of modeled and monitored daily emissions (reference Figures 5-23 and 5-24 in the September 1994 modeling report). That report also noted closer agreement between average annual and highest average monitored concentrations (as noted in Tables 5-2 and 5-6).

EPA Comment #39

We recommend that the table presented on page 5-19 be revised to describe model behavior at each individual receptor. The current 'lumping' of receptor types makes the table difficult to interpret.

Response

A revised table that addresses this comment has been included in the revised modeling study (reference Section 5 in Part III, Volume 2 of the RI Report). A similar table summarizing model behavior from the September 1994 modeling study was presented to EPA at a meeting on November 30, 1994.

EPA Comment #40

In summarizing the modeling analyses, the PRPs recommend, pending further analysis, using measured (or a downward adjustment of modeled) polonium-210, cadmium, and total chromium levels for assessing risk due to their belief that modeling is overstating impacts of these constituents. In light of our overall concerns that the modeling may, in fact, reflect a tendency to underpredict, the proposal to adjust model predictions downward is rejected (besides, adjusting model predictions is not an acceptable practice in the regulatory air modeling world).

Furthermore, we do not believe that it is appropriate to use monitored air quality values without an accompanying analysis of operations at the facilities during the monitoring period. To date, EPA has seen no information that would indicate that the past year of operation (coincident with the monitoring program) is either typical or atypical. Without knowing what was happening at the facilities during the monitoring effort, the measured values are without a context in which they can be properly interpreted.

Response

This comment is closely related to comment #6. Please refer to the response to comment #6 for a clarification of the nature of the daily emission inventory.

Please also refer to the response to comment #8, where information concerning the representativeness of the emission inventories is provided.

AL-3 COMMENTS ISSUED ON JANUARY 9, 1995

EPA issued additional comments on the September 1994 modeling study on January 9, 1995 (EPA, 1995). The Companies believe that the concerns raised in EPA's letter result from misunderstanding of the inventory spreadsheets and misunderstanding of the terminology used in the September 1994 modeling report.

EPA Comment #1

The letter from FMC attempted to clarify some confusion related to the emissions inventory (EI) presented in the September 1994 dispersion modeling report. Unfortunately, the information presented in the letter raises more questions than we believe it intended to answer. As we see it, there are two general concerns pertaining to the current characterization of furnace-related emissions at FMC. First, clarification is still needed as to whether the emission contained in the current (9/94) inventory are maximum rates, or rates reflecting actual operations during the monitoring program. A comparison with 1990 operating rates does not seem to address this concern, without some comparison between 1990 levels and maximum (or typical) emission rates from sources at the FMC facility.

Response

The inventory contains rates reflecting actual operations. Please refer to the responses to comments #6 and #8 in Section AL-2.

EPA Comment #2

A second question raised by the letter is related to furnace operation/utilization during the monitoring program. Mr. Sieverson's letter indicates that P4 production between July 1993 and June 1994 was roughly 85% of the P4 production rate of 1990 and therefore furnace operation was "assumed," for purposes of the inventory, to be at 85% of 1990 levels. It is not clear to us why operating levels need to be "assumed" for the analyses conducted. Are there not operation/maintenance records maintained at your facility which would be more appropriate for developing an inventory of "actual" emissions? This type of information would seem to be more appropriate for EI development.

Furthermore, review of the spreadsheets contained in Appendix A of the report indicate that emissions from furnace-related activities were estimated using hourly emission

factors and estimated (?) hours of operation. Our assessment of the information in Appendix A reveals that annual average emissions from furnace-related activities were calculated using an annual utilization rate of approximately 4,150 hours per year (roughly 47% of the year). Does this represent 85% of 1990 operating levels, and if so, how does it relate to maximum (or typical) utilization at FMC?

Response

The daily hours of operation (15.25 hr.) for each furnace represents the actual furnace tapping time, accounting for 35 minutes per operating hour that a furnace is tapped (slag); and 25 minutes three times per day (approximate) that a metal tap on the furnace is performed. The annual rate is based on the daily hours of operation and a 85% furnace utilization rate. Both the daily and annual operation times included in the CERCLA inventory are not related to any annual P_4 production rate, rather they are "typical" or target operational times.

During the 1993/1994 monitoring period, furnace operational times were in fact less than typical conditions reflected in the CERCLA inventory. For this reason, modeling results related to furnace operation are likely overestimated.

EPA Comment #3

We also have had the opportunity to look at the inventory further and have some additional observations/questions. We have noted that emissions from the ore stacker/reclaimer at FMC do not appear to be contained in the current version of the inventory. We would appreciate a clarification as to why these emissions appear to have been omitted from the recent modeling analyses.

Additionally, the inventory of PM_{10} and TSP emissions at Simplot seems to be much more streamlined than the inventory developed in 1992. Many sources listed in the 1992 version are nowhere to be seen in the 1994 version. While we understand that many sources related to ore handling at Simplot no longer exist as a consequence of the use of the slurry pipeline, we are unable to determine whether the reduction in the number of sources at the facility is attributable solely to the changes associated with the use of the pipeline. Clarification of these changes would be greatly appreciated.

Response

The stacker/reclaimer was listed as a "batch loadout" operation within the stockpile spreadsheet.

The decrease in the number of sources is, in part, due to elimination of the calciner and conversion to slurry pipeline, as well as the combination of several stacks into one source.

There are also other factors. Since the 1992 compliance demonstration (SIP) inventory was prepared, Simplot's' operating permits have been revised on a wholesale basis with newer point sources added and emissions limits and other parameters changed. Further, the 1992 inventory was intended for a modeling demonstration of compliance and included federally enforceable emissions limits wherever appropriate. The current inventory was intended to support the evaluation of the modeling effort under the Superfund program and has used actual emissions for as many of the activities as possible.

EPA Comment #4

> *The spreadsheets also show that overall emissions estimated in the two inventories are quite different. For example, point source emissions from Simplot (after controls) are estimated at about 131 ton/year in the present EI while the 1992 EI estimated point source emissions at abut 322 ton/year. Similar differences can be seem from the FMC point sources as well as for area source emissions from both facilities. It is unclear as to what changes at the facilities could account for these major differences and we request further clarification particularly in the context of defining a "typical" year.*

Response

This is correct. As pointed out in the September 1994 modeling report, emission estimates for many sources developed for the 1992 inventory using AP-42 methods were replaced with source test data. Also, "actual" emissions were used in the September 1994 inventory, rather than "permitted" levels. In addition, further development of the basis for the inventory has occurred since the 1992 inventory was issued.

The difference between 322 tons per year (tpy) in the 1992 compliance demonstration inventory and the 131 tpy in the current inventory is directly linked to the different purpose of the two inventories and their basis. 322 is based on federally enforceable permit emissions limits and the 131 tpy figure is the actual (1993) emission.

EPA Comment #5

> *Finally, we have done some comparisons between the 1992 and 1994 emissions inventories. The enclosed table provides a list of sources which retained the same "throughput" information in both the 1992 and 1994 versions of the emissions inventories (EIs). It is unclear to us as to why the throughputs used as a basis for emissions from these sources remained the same when production rates have changed between EI years? It would seem that throughputs used to estimate emissions would be a function of annual production rates.*

Response

The cases cited in the comment apply to sources for which post-1992 source test data were used in the 1994 inventory. The throughputs are "artifacts" from the 1992 inventory; these values were not used mathematically to calculate emissions in the 1994 inventory.

In the case of the Simplot example (#400 Phosphoric Acid plant: Gyp Precip => Gyp Stockpile), the emissions related to this activity are not a function of the throughput as assumed in the letter. The throughput value was not changed from the 1992 value because it made no difference to the result.

Appendix AM

Letters to EPA

Eastern Michaud Flats Site
Corporate Superfund Offices

FMC Corporation
J.R. Simplot Co.

December 13, 1994

Mr. Bill Adams
M/S HW-113
U. S. Environmental Protection Agency, Region 10
1200 Sixth Avenue
Seattle, WA 98101

Subject: Eastern Michaud Flats RI/FS
Agreements Reached at November 30, 1994 Air Pathways Meeting

Dear Bill:

Thank you for meeting with us on November 30, 1994 to discuss the September 1994 report titled "Characterization of Ambient Air Quality in the EMF Study Area." EPA comments were transmitted in a letter dated November 18, 1994. Our understanding of the agreements and action items reached at the meeting is summarized in the attached Table 1. This table also proposes completion dates for each item.

We believe that most of EPA's comments reflect a need for a greater explanation of the process followed by the Companies in developing the emission inventories. We are confident that we can provide this information to you over the next several months and propose that the action items be completed in the following four phases:

- Phase 1 - complete exchange of existing information and the clarification of comments between the Companies and EPA on or before December 23, 1994.

- Phase 2 - for most high priority actions involving further characterization of the emission inventory (see Table 1), we propose a discussion during the next air pathways meeting, tentatively scheduled for January 11 or 12, 1995.

- Phase 3 - we propose a discussion of remaining high priority and all low priority actions at a subsequent air pathways meeting. We suggest that this meeting be tentatively scheduled for February 15, 1995.

- Phase 4 - the information developed under phases 1 through 3 would be formally recorded, as appropriate, in a revised Air Characterization Report. This revised report, which will include the case studies, would be submitted to EPA by March 15, 1995 as part of the RI Report.

Please inform us if this schedule is acceptable or if the characterization of agreements and action items as described in Table 1 differs from your understanding from the meeting.

We are concerned that EPA's consultant has indicated that additional work is necessary to develop a comprehensive technical framework for its air-pathway risk characterization work. We understand that this additional work may include the selection of exposure scenarios and constituents of concern. While we appreciate the need to address EPA's technical comments on our September report, we believe that the information sought by EPA through these comments is not critical to the development of a risk assessment strategy.

We raise this concern only to indicate that it appears that the schedule and technical scope of the risk assessment are uncertain and require further characterization. Consequently, we are uncertain whether to expect additional information requests going beyond clarification of our responses to your November 18 comments as EPA moves forward in its risk assessment effort.

Our project planning is currently based on receipt of the final human health and ecological risk assessment on February 1, 1995. The Administrative Order on Consent obligates the Companies to submit a draft Remedial Investigation Report within 42 days of receipt of EPA's final risk assessment. Thus the February date for the final risk assessment requires that we plan on submitting the nine-to-ten volume Remedial Investigation Report on March 15, 1995. If you believe that the February 1, 1995 milestone is unrealistic, we would welcome your guidance on a more-realistic schedule.

A number of the action items listed in Table 1 are to be performed by EPA. These action items are listed below (by comment number) for your reference:

- Comment # 9 regarding emissions characterization of FMC furnace tap hood:

  - EPA (S. Body) to determine appropriateness of methodology by 1/30/95).

- Comment # 2 regarding CERCLA-SIP inventory comparison:

  - EPA will identify the SIP inventory to be used for comparison by 12/23/94. The Companies request that EPA provide this inventory in electronic format.

- Comment # 18 regarding how throughput differs in current inventory from 1992:

  - EPA (B. Ryan) to cite differences by 12/23/94.

- Comment # 27 regarding modeling Air Stagnation using WYNDvalley modeling code:

  - State to evaluate potential days of stagnation during monitoring period and advise Companies by 12/23/94.

- Comment # 31 regarding the use of 1/2 SDL in characterizing background:

  - EPA to determine by 12/23/94 whether the use of the SDL, as used in defining groundwater background, is appropriate for defining background for air.

- Comment # 32 regarding the use of 95th percentile UCL:

  - Both EPA and Companies to further assess use of 95% UCL or 95 percentile for determining background by 12/23/94.

We look forward to meeting with you on January 11 or 12, 1995 in Boise to present our work-to-date on case studies as well as our responses to many of the comments. Please feel free to contact either of us or Art Day at Bechtel if we can provide further information on this letter.

J. P. Sieverson
FMC Corporation

S. Curreri
J. R. Simplot Company

Attachments

cc: Gordon Brown, IDEQ
Mike Thomas, IDEQ
Gary Fenwick, SHOBAN Tribe
Andy Hafferty, E&E, Inc.
Bill Ryan, EPA
Steve Body, EPA

TABLE 1

NOVEMBER 30, 1994 EMF AIR PATHWAYS MEETING
AGREEMENTS AND ACTION ITEMS

The meeting addressed EPA's comments on the September 1994 report titled: "Characterization of Ambient Air Quality in the EMF Study Area." These comments were transmitted in a November 18, 1994 letter from EPA, Region 10. An attendance list is attached.

The following agreements and action items were made at the meeting. These are listed under the general topic discussed during the meeting with bulleted reference to EPA's comment number and area of concern. The priority assigned during the meeting is also presented along with the Companies' estimate of the schedule for submission of information requested in the comment.

EMISSION INVENTORY COMMENTS

- Comment # 9 regarding emissions characterization of FMC furnace tap hood

Actions:
a) Reports on emission characterization given to S. Body earlier in 1994 by FMC will also to be provided by FMC to B. Adams and B.Ryan.
b) S. Body, EPA to determine appropriateness of methodology (expected by 1/30/95).
c) FMC will demonstrate that emissions measures are representative.

Modeling confidence priority: Yes

Schedule to Complete:
a) 12/16/94
b) 1/30/95
c) presentation on 1/11/95

- Comment # 10 regarding slag handling activities

Actions:
a) FMC to address representativeness of emissions data
b) FMC to address variability among furnaces.
c) FMC to report whether conditions during testing were typical.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 1/11/95

- Comment # 20 regarding representativeness of emissions factors

Actions: See Actions identified for comments # 9 and 10

Modeling confidence priority: Yes

Schedule to complete: Presentation on 1/11/95

- Comment # 11 regarding fluoride in FMC emissions testing (slag and furnace tapping)

Actions: FMC will develop an emission factor scaled according to gas-phase concentrations from the furnace tap vent and from the concentration of fluoride in cold slag.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 1/11/95

- Comment # 12 regarding Table 3-6 differences between PM10 vs. TSP

Actions: FMC explained at the meeting that the higher of the two values was used as a conservative approach in the emission inventory. The text of the modeling report will be revised to reflect this.

Modeling confidence priority: No

Schedule to complete: Response provided at the meeting; report text will be revised by 3/15/95

- Comment # 22 regarding CO and Secondary Condenser Flares

Actions: FMC will estimate metal and radionuclide emissions from these sources using metal/rad concentration in P4.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 1/11/95

- Comment # 2 regarding CERCLA-SIP inventory comparison

Actions: a) EPA will identify the SIP inventory to be used for comparison. The Companies request that EPA provide this inventory in electronic format.
b) The Companies will address differences between SIP and current inventory in cases where source test data were used to characterize previous inventory.

Modeling confidence priority: No

Schedule to complete: a) 12/23/94
b) presentation on 2/15/95

- Comment # 18 regarding how throughput differs in current inventory from 1992

Actions: a) EPA (B. Ryan) to cite differences.
b) Companies will address lack of similarities

Modeling confidence priority: No

Schedule to complete: a) 12/23/94
b) presentation on 2/15/95

- Comment # 14 regarding road emissions

Actions: Companies will provide backup documentation to EPA (B. Adams) for distribution

Modeling confidence priority: Yes

Schedule to complete: 12/16/94

- Comment # 16 regarding hexavalent chromium

Actions: The Companies indicated that the sample in question was considered by the analytical laboratory and data validators to be a false positive. An explanation was provided in Appendix G.

Modeling confidence priority: N/A

Schedule to complete: No further action necessary

- Comment # 17 regarding Simplot source test reports

Actions: Simplot will provide support documentation to EPA (B. Adams) for distribution.

Modeling confidence priority: Yes

Schedule to complete: 12/16/94

- Comment # 15 regarding inclusion of precipitation adjustment factor

Actions: Companies agree with EPA comments and will adjust the emission inventory for roads and stockpiles accordingly.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 1/11/95

- Comment # 19 regarding gypstack emissions

Actions: No changes necessary.

Modeling confidence priority: N/A

Schedule to complete: N/A

- Comment # 21 regarding use of outdated technique to characterize emissions

Actions: Companies to develop response to comment. Data needed to use EPA-recommended approach do not appear to be available from the National Weather Service.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 1/11/95

- Comment # 23 regarding negligible emissions assumption

Actions: Companies will provide an explanation and justification for the approach used in the modeling study.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 1/11/95

- Comment # 24 regarding capture and control efficiencies

Actions: Companies will provide a brief discussion of the basis for the efficiencies used in the inventory and address similarities/differences to the values used in the SIP inventory.

Modeling confidence priority: No

Schedule to complete: Presentation on 2/15/95

- Comment # 8 regarding the definition of a typical operation year

Actions: Companies will provide documentation justifying representativeness of a single year of data.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 2/15/95

- Comment # 13 regarding emissions factors for PM10 and TSP

Actions: Errata in text to be corrected

Modeling confidence priority: No

Schedule to complete: 3/15/95

- Comment # 25 regarding the four sources described as volume sources

Actions: Companies to provide explanation on why and how these were modeled as volume sources.

Modeling confidence priority: No

Schedule to complete: Presentation on 2/15/95

COMMENTS NEEDING CLARIFICATION

- Comment # 1 regarding constituents of potential concern

Actions: FMC will develop a mass balance-like characterization of the industrial process, considering the approach suggested by E&E (C. Stineman) as a starting point. The goal will be to describe the relative enrichment or depletion of constituents of potential concern in the air pathway through the process. Completion of a traditional mass balance is understood not to be possible, given the manner in which feedstocks and by-products are measured through the process. A similar analysis of the Simplot process is not necessary.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 1/11/95

- Comments # 3 and 4 regarding Federally permitted sources

Actions: EPA would like listing of permitted sources. Discussion of this topic is proceeding among counsel for FMC/Simplot and EPA.

Modeling confidence priority: Yes

Schedule to complete: Further discussion on 2/15/95

SCHEDULE

- Comment # 5 regarding case studies

Actions: An outline of the analysis report was provided at the meeting. This identified eight days for which case studies are being prepared. The first several cases will be discussed at the next air pathways meeting tentatively scheduled for 1/11/95 and the remainder at the meeting proposed in February. The revised Air Quality Characterization Report will include a formal presentation of the case studies following the outline presented at the November 30 meeting..

Modeling confidence priority: Yes

Schedule to complete: Presentations on 1/11/95 and 2/15/95
Written report by 3/15/95

MODEL PERFORMANCE

- Comment # 6 regarding model underestimation

Actions: Companies will revise text in the modeling report concerning the 24-hour maximum emissions to better explain the use of the term "maximum 24-hour emission."

Modeling confidence priority: Yes

Schedule to complete: Presentation on 2/15/95

- Comments # 7, 36, and 37 regarding the use of 24 hour emissions

Actions: The Companies will provide additional discussion of the relationship between the emissions reported as "maximum 24-hour emissions" and the maximum emissions that might occur from sources. However, EPA clarified that the use of 24-hour emissions is appropriate for an analysis of model performance.

Modeling confidence priority: Yes

Schedule to complete: Presentation on 2/15/95

- Comment # 34 regarding overprediction of constituents

Actions: The Companies will revise the Table 5-19 to understandably reflect model results.

Modeling confidence priority: No

Schedule to complete: 3/15/95

- Comments # 38 and 40 regarding overprediction of constituents

Actions: The Companies will clarify the report statement concerning "model adjustment".

Modeling confidence priority: No

Schedule to complete: 3/15/95

- Comment # 39 regarding model behavior

Actions: The Companies agreed to revise the subject table to describe model behavior.

Modeling performance priority: No

Schedule to complete: 3/15/95

MODELING METHODOLOGY

- Comment # 26 regarding sigma theta values

Actions: An analysis of the difference in air stability classification based on the method used in the modeling study for the period July-September 1993 and that recommended by EPA Region 10 was presented at the meeting. This analysis (attached) indicated that there was no significant differences between the methods. discussed in the revised modeling report.

Modeling performance priority: No

Schedule to complete: N/A. Information to be included in revised report (3/15/95)

- Comment # 27 regarding modeling Air Stagnation using WYNDvalley modeling code

Actions:
a) WYNDvalley modeling will not be performed
b) Companies to suggest alternative method to evaluate stagnation episode
c) State to evaluate potential days of stagnation during monitoring period and advise Companies

Modeling confidence priority: No

Schedule to complete:
a) N/A
b) 1/11/95
c) 12/23/94

BACKGROUND

- Comment # 28 regarding citation of Gilbert (1987)

Actions: The citation is:

Gilbert, Richard O., Statistical Methods for Environmental Pollution Monitoring, Van Nostrand Reinhard, New York, 1987, pages 164-173.

Modeling confidence priority: No

Schedule to complete: N/A

- Comment # 29 regarding correlations and use of sites 3 & 4 to define background

Actions:
a) Companies to clarify question with B. Ryan and develop response.
b) Companies to consider further identification patterns in background concentrations.
c) The Companies clarified that sampling data obtained at sites 1, 3 & 4 were not used in background characterization.

Modeling confidence priority: Yes

Schedule to complete:
a) 12/16/94 (by telephone)
b) 2/15/95
c) N/A

- Comment # 31 regarding the use of 1/2 SDL in characterizing background

Actions: EPA to determine whether the use of the SDL, as used in defining groundwater background, is appropriate for defining background for air

Modeling confidence priority: Yes

Schedule to complete: 12/23/94

- Comment # 32 regarding the use of 95th percentile UCL

Actions: Both EPA and Companies to further assess use of 95% UCL or 95 percentile for determining background.

Modeling confidence priority: Yes

Schedule to complete: 12/23/94

OTHER TOPICS DISCUSSED AT MEETING

- Deposition Modeling. The Companies proposed that deposition analysis not be included within the scope of the RI/FS because information more relevant to assess the potential impact of current deposition is being obtained through the ecological investigation.

Actions: No further action during the RI: EPA agreed that deposition modeling is not needed during the RI. However, it might become relevant as part of the Feasibility Study.

- Historic emission inventory. The Companies proposed that an historic emission inventory not be included within the scope of the RI/FS, because data more relevant to assess the potential impact of emissions have been collected through the surface soil sampling program and the ecological investigations.

Actions: No further action during the RI: EPA indicated, however, that development of an historic emissions inventory may be appropriate in FS for comparison of current vs. past emissions.

- Data Requests. E&E (C. Stineman) requested the following data in electronic format:

  a) update all gravimetric data from the air monitoring program collected through the monitoring program
  b) soil chemistry data collected during the ecological investigation
  c) updated meteorological data and acoustic sounder data collected through the monitoring program

Actions: The Companies will provide these data. The Companies indicated, however, that meteorological data for the period October 1993 through June 1994 were previously submitted to E&E. The met data collected from July through October 1994 will be transmitted along with all acoustic sounder data.

Schedule to complete: 12/23/94

- Next Meeting Date: January 11 or 12, 1995 was tentatively selected for the next meeting on the air pathway investigation. The results of case studies available by that data, as well as responses to many of the comments described above will be presented.

MEETING ATTENDANCE LIST

November 30, 1994

NAME	Affiliation	Phone
Ward Wollison	J.R. Simplot	208 258 2870
Randy Peltier	TRC Environmental	(503) 624-2773
Ken Richmond	McCulloch Fridd & Gilman	206-772-[illegible]
LINDA HANNA	Sciences International	(703) 684-0123
Lew Hammermeister	FMC	(208) 236-8330
Andrew Hafferty	Ecology & Environment	206/624-9537
CARL STINEMAN	E&E	716-684-8060
Steve Curreri	JR Simplot Co.	(208) 238-2789
Art Day	Bechtel	415-768-2066
Peter Zeh	FMC (Bechtel office)	(415) 768-4773
BILL RYAN	EPA	(206) 553-8[illegible]1
Tim Morgan	Bechtel/Environmental	(415) 768-5370
STEVE BODY	EPA	206 553-0782
Gary Fenwick	Sho-Ban Tribes	208 238 3825
Gordon Brown	IDEO	(208) 236-6160
Bill Adams.	EPA.	(206) 553-2806

COMPARISON OF SIGMA THETA CALCULATION METHODS

PROVIDED IN RESPONSE TO EPA COMMENTS # 26

On a same time basis (per hour)

Difference in Classes

Sigma R - Sigma Cs	Count	Percentage
-6	0	0.00%
-5	0	0.00%
-4	0	0.00%
-3	3	0.05%
-2	19	0.29%
-1	186	2.87%
0	5872	90.63%
1	342	5.28%
2	51	0.79%
3	6	0.09%
4	0	0.00%
5	0	0.00%
6	0	0.00%
Missing or Invalid	69	
Total	6548	100.00%

On a per class basis

Stability	Sigma R		Sigma Cs	
Class	Count	Percent	Count	Percent
1	581	8.87%	651	9.94%
2	362	5.53%	412	6.29%
3	796	12.16%	791	12.08%
4	3544	54.12%	3427	52.34%
5	443	6.77%	371	5.67%
6	753	11.50%	827	12.63%
Invalid	69	1.05%	69	1.05%
Total	6548	100.00%	6548	100.00%

Where: Sigma R - is the revised sigma theta per EPA
Sigma Cs - is the older Cambel-Scientific sigma theta method.

EMF Air Modeling Meeting
Feb. 23, 1994.

Name.	Representing	Phone #
Bill Adams.	EPA.	206-553-2806.
Howard Hammerman	BEI	415 768-8789
Peter Zeh	FMC (@BEI)	(415) 768-4773
Art Day	Bechtel	415-768-2066
Gordon Brown	INEEL	(208) 236-6160
Tim Morgan	Bechtel	(415) 768-5370
Steven Curreri	JRSimplot	(208) 238-2789
Lew Hammermeister	FMC	(208) 236-8330
Ward Wolleson	SIMPLOT	(208) 238 2870
Ken Richard	MFG	206-778-8252
Bill Ryan	EPA	(206) 553-8561

AGENDA

EMF AIR PATHWAYS INVESTIGATION

FEBRUARY 23, 1995
EPA REGION 10
1200 SIXTH AVENUE, SEATTLE

OBJECTIVES

- Respond to EPA's "High Priority" comments on the 9/94 Air Quality Characterization Report
- Update EPA on changes in emission inventories
- Discuss preliminary case study results
- Define scope of air pathways topics in RI Report
- Discuss CERCLA/SIP coordination and future tasks

8:30 INTRODUCTIONS AND REVIEW OF AGENDA

8:45 RESPONSES TO HIGH PRIORITY COMMENTS

- Representativeness of FMC furnace tapping and slag handling emission characterization (comments # 9, 10, 20)
- FMC material balance (comment # 1)
- "Fastest-mile wind" emission calculation for stockpiles (comment # 21)
- Negligible emissions assumptions (comment # 23)
- Capture and control efficiencies (comment # 24)
- Typical operation year (comment # 8)

10:30 EMISSION INVENTORY REVISIONS SINCE 9/94

AGENDA - FEBRUARY 23, 1995 (CONTINUED)

11:30 LUNCH (on your own)

12:30 CASE STUDIES

- Purpose of case studies
- Approach
- Cases of model underprediction
  - October 24, 1993
  - January 6, 1994
  - April 14, 1994
- Cases of model overprediction
  - June 7, 1994
- Implications
- Other cases studies in progress

1:45 SCOPE OF RI REPORT

2:15 CERCLA/SIP COORDINATION

2:30 REVIEW AGREEMENTS AND NEXT STEPS

3:00 ADJOURN

TABLE 1

AGREEMENTS REACHED AT FEBRUARY 23, 1995 EMF AIR PATHWAYS MEETING

Timing of Modeling Report

- EPA agreed to consider whether the modeling study should be included with the RI Report (May, 1995 expected publication date) or published after the RI Report as a feasibility study-related document. EPA understood that the results of the resampling of slag handling emissions will not be available until June or July, 1995, and that FMC will use the results of the 1993 characterization pending resampling.

Emission Inventories

- FMC and Simplot will submit a general review of production values, feedstock and/or power utilization rates, and meteorological conditions to compare the base period used for the inventories and modeling study (1993/1994) with 1990 through 1994 plant operations. This will respond to EPA's comment # 8 regarding the meaning of "typical year" (November 13, 1994 letter) on the modeling study.

- FMC will submit the plant material balance as Confidential Business Information.

- AP42 Method 11.2.7, revised 9/88 presents two approaches to estimate wind-blown emissions from stockpiles. EPA had requested that the Companies use one of these methods, termed the "fastest-mile" calculation, to evaluate the results already developed using the second method. The Companies noted that the fastest-mile method requires input data that are not available (e.g., stockpile disturbance rates and utilization patterns, threshold friction velocity). Consequently, the Companies believe that the use of this method would require a number of assumptions that introduce significant uncertainties into the calculation, and that the second, alternative method used by the Companies is more conservative.

EPA stated that the use of the fastest-mile method is not mandatory. However, the Companies will consider this method if the evaluation of model performance does not reach sufficient closure between model predictions and monitoring results. The Companies will provide additional comment on this topic in the final report on the modeling study.

- EPA found the basis for assuming that metal emissions from certain sources (e.g., natural gas boilers) are negligible to be acceptable. The final report on the inventories and modeling study will include the explanations presented in handout form at the meeting.

- The Companies will provide the data on silt content used to calculate emissions from roads and the slag pile.

AGREEMENTS REACHED AT FEBRUARY 23, 1995 EMF AIR PATHWAYS MEETING (CONTINUED)

Case Studies

- EPA agreed that background constituent levels used in the case study analyses should be obtained from the upwind monitoring site on that case study date, rather than the 95th percentile of data from site 6 (calculated on a seasonal basis). The Companies also stated that the use of the 95th percent upper confidence level of the mean (calculated on a seasonal basis) is more appropriate than the 95th percentile to evaluate model performance. EPA agreed to reconsider its earlier comment (# 32 in its November 13, 1994 letter) that recommended using the 95th percentile to define average annual and seasonal background levels.

- The Companies reaffirmed that they will evaluate the period of January 18 through 22, 1994 as a case study to assess a stagnation-like episode.

- The Companies observed that the major benefit in the case study analyses performed thus far has been the refinement of the baseline inventory. The Companies expressed that additional case studies beyond the four discussed at the meeting will provide progressively less potential refinement in the emission inventories, and as such are not likely to be cost-effective. While EPA would prefer that the Companies complete all of the eight case study analyses—outlined in the draft Case Study Report annotated outline submitted to EPA on November 30, 1994—EPA agreed that a comparison of model predictions using the September 1994 study with those made using the current baseline inventory would help determine the utility of additional case studies. This comparison will be forwarded to EPA in the near future.

Next Meeting

- It was agreed that the next meeting will be in Boise on March 23, 1995. The agenda will include a presentation by IDEQ staff on their development of emission inventories for the EMF facilities and any preliminary results on modeling air quality in the EMF and Pocatello area. The Companies will present an overview—suitable for IDEQ senior management—on their emission inventories, model predictions, and ambient air quality monitoring data. The Companies will forward a proposed agenda. IDEQ agreed to ensure that the appropriate staff participate in this meeting.