
Ville de Rimouski
Aménagement du lieu
d'enfouissement technique
de Rimouski

Étude de dispersion atmosphérique

Juin 2002

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PARTIE 1 - Introduction

1. INTRODUCTION

La Ville de Rimouski a mandaté la firme André Simard & associés afin d'effectuer une étude portant sur l'impact de l'implantation du lieu d'enfouissement technique de Rimouski sur le niveau de production de biogaz et le dégagement d'odeurs. Conformément aux exigences générales de la Direction des Évaluations environnementales du Ministère de l'Environnement du Québec, l'étude comprend notamment les points suivants:

- Évaluation de la génération du biogaz en fonction du mode d'exploitation du lieu d'enfouissement et du taux d'enfouissement;
- Estimation des débits de biogaz captés et des émissions à l'atmosphère en fonction du scénario d'exploitation du site et du calendrier de mise en place des infrastructures de captage du biogaz;
- Modélisation de la dispersion atmosphérique des composés de soufre réduit totaux;
- Définition d'une procédure de validation des hypothèses de modélisation et des résultats obtenus.

L'étude a été effectuée à l'aide des modèles suivants:

- Logiciel de génération du biogaz *Landfill Air Emission Estimation Model (Landgem)* développé par l'EPA;
- Logiciel de dispersion atmosphérique de type Gaussien ISC3(ST) développé par Trinity Consultant.

Les résultats de l'étude de dispersion atmosphérique sont comparés aux exigences du projet de modification du Règlement sur la qualité de l'atmosphère ainsi qu'aux critères de qualité de l'air du Ministère de l'Environnement.

PARTIE 2 – Estimation des émissions de biogaz à l'atmosphère

2. ESTIMATION DES ÉMISSIONS DE BIOGAZ À L'ATMOSPHÈRE

2.1 HYPOTHÈSES DE MODÉLISATION

Les différentes hypothèses servant d'intrants au modèle de génération et à l'estimation des émissions de biogaz à l'atmosphère sont présentées aux sous-sections suivantes. Ces hypothèses sont basées sur les données transmises par la Ville de Rimouski et la documentation existante typique d'un site d'enfouissement de déchets municipaux en milieu humide.

2.1.1 *Quantité et composition des déchets*

Le lieu d'enfouissement de Rimouski reçoit principalement des déchets municipaux depuis 1980. Le site peut être divisé en trois parties, soit:

- Phase 1 : exploitation de 1980 à 1988, taux d'enfouissement annuel de 35 000 tonnes;
- Phase 2 : exploitation de 1989 à 2003, taux d'enfouissement annuel de 35 000 tonnes;
- Nouveau LET : exploitation de 2004 à 2061, taux d'enfouissement annuel prévu de 42 650 tonnes.

La capacité totale du site existant, opéré de 1980 à 2003, est de 840 000 tonnes. L'implantation du nouveau lieu d'enfouissement technique porterait la capacité totale du site de Rimouski à 3 277 150 tonnes pour une fermeture prévue en 2061.

2.1.2 *Paramètres de modélisation de la génération*

Le niveau de production de biogaz a été défini à l'aide du modèle LANDGEM développé par l'EPA. Ce modèle couramment utilisé dans l'industrie, est un modèle d'ordre 1 impliquant un taux de génération du biogaz décroissant dans le temps. En plus du taux d'enfouissement, deux intrants sont requis par ce modèle, soit la constante de décroissance de la génération du biogaz " k " (an^{-1}) et la production totale de méthane par tonne de déchets " L_0 ".

Telle que retenue par l'EPA et le Ministère de l'Environnement de l'Ontario, une valeur de " k " égale à 0,04 a été utilisée. Cette valeur serait représentative d'un site d'enfouissement de déchets municipaux recevant plus de 64 cm de précipitation par

année⁽¹⁾⁽²⁾. Trois valeurs différentes de "Lo" ont toutefois été utilisées afin de refléter l'évolution du contenu en matière organique dans les déchets:

- Phase 1 : Lo = 230 m³ CH₄/tonne de déchets;
- Phase 2 : Lo = 170 m³ CH₄/tonne de déchets;
- Nouveau LET : Lo = 160 m³ CH₄/tonne de déchets.

Ces valeurs moyennes ont été calculées d'après les valeurs typiques annuelles représentatives de l'évolution de la composition des déchets au Canada depuis 1988⁽³⁾.

Pour fin d'évaluation du débit de méthane généré, la concentration de ce composé dans le biogaz généré a été fixée à 50% ce qui est typique d'un gaz produit par une dégradation anaérobie stable des déchets dans un site d'enfouissement.

2.1.3 Efficacité de captage

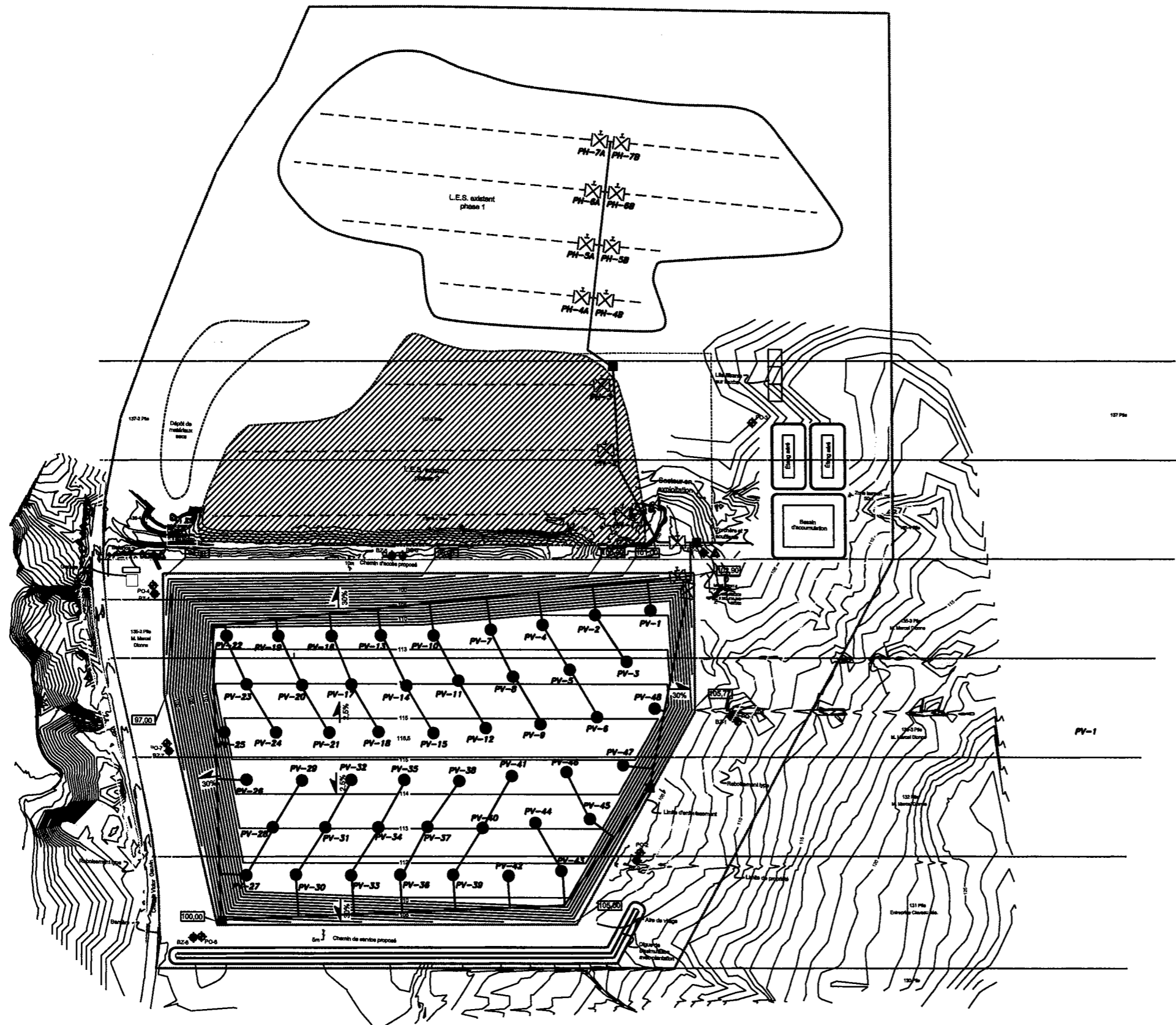
Un plan d'arrangement général du réseau de captage du biogaz est présenté à la figure 2-1. Un réseau actif constitué de collecteurs horizontaux sera installé et mise en service dès 2004 sur les phases 1 et 2 du site existant. Étant donné la faible épaisseur de déchets, soit environ 6 mètres, un seul niveau de collecteurs est prévu. Quatre collecteurs seront installés sur la phase 1 et 3 sur la phase 2. Les collecteurs perforés seront installés à l'intérieur d'une tranchée de gravier surmontée d'une géomembrane afin de limiter l'infiltration d'air dans la tuyauterie sous l'action de soutirage du biogaz.

Pour le nouveau LET, le réseau de captage actif sera constitué de 48 puits d'extraction verticaux. Ces puits seront installés et raccordés à la station de pompage et de destruction du biogaz au fur et à mesure de la fermeture finale de chacune des cellules. Le tableau 2-1 présente le scénario d'exploitation prévu pour le nouveau LET de Rimouski indiquant pour chaque cellule la date de début de l'exploitation, le tonnage prévu ainsi que la date de mise en place du recouvrement final.

(1) U.S. EPA (1998): "Compilation of air pollutant emission factors" AP-42, Fifth Edition, Vol 1. Stationary point and area sources, Chapter 2. Solid Waste Disposal, January 1995, revised in August and November 1998.

(2) Environment Canada (1999): "Identification of potential landfill sites for additional gas recovery and utilization in Canada", prepared by Conesta-Rovers & Associates and The Delphi Group, July 1999.

(3) Environnement Canada (1997): "Tendances des émissions de gaz à effet de serre au Canada (1990-1995)", préparé par A. Jaques, F. Neitzert et P. Boileau, juillet 1997.



LÉGENDE

- PUITS DE CAPTAGE DU BIOGAZ ●
- VANNE D'ISOLATION DE SECTION ☒
- RÉSERVOIR DE CONDENSAT ■
- COLLECTEURS BIOGAZ ———
- PUITS HORIZONTAUX - - - - -

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TITRE DU PROJET:

**L E T de Rimouski
 Étude d'impacts**

TITRE DU PLAN: DISPERSION
 ATMOSPHÉRIQUE DES
 SRT

**PLAN D'ARRANGEMENT
 GÉNÉRAL DU RÉSEAU
 DE CAPTAGE DU BIOGAZ**

DESSIN: MB	ECHELLE: xx	PROJET No: 01-755
VERIF. CV	DATE: 07 JUN 2002	FIGURE No: 2-1

Tableau 2-1: Scénario d'enfouissement et d'exploitation - LET de Rimouski

ANNÉE	TONNAGE (tonnes mét.)	TONNAGE CUMULATIF (tonnes mét.)	CELLULE	SUPERFICIE PAR CELLULE (m ²)	SUPERFICIE CUMULATIVE D'ENFOUISSEMENT (m ²)	SUPERFICIE CUMULATIVE FERMÉE (m ²)	ANNÉE DE FERMETURE DES CELLULES
2004	42650	42650	C1	10725	10725		
2005	42650	85300	C2	9250	19975		
2006	42650	127950	C3	10000	29975		
2007	42650	170600	C4	10350	40325	6428	
2008	42650	213250	C5	6000	46325	6428	
2009	42650	255900			46325	13651	C1
2010	42650	298550	C6	6000	52325	13651	
2011	42650	341200	C7	6000	58325	21490	C2
2012	42650	383850	C8	10000	68325	21490	
2013	42650	426500			68325	29743	
2014	42650	469150	C9	6000	74325	29743	
2015	42650	511800			74325	38222	C3
2016	42650	554450	C10	10000	84325	38222	
2017	42650	597100			84325	46760	C4-C5
2018	42650	639750	C11	6000	90325	46760	
2019	42650	682400			90325	55220	C6
2020	42650	725050	C12	10000	100325	55220	
2021	42650	767700			100325	63499	C7
2022	42650	810350	C13	6000	106325	63499	
2023	42650	853000			106325	71522	C8
2024	42650	895650	C14	10000	116325	71522	
2025	42650	938300			116325	79241	C9
2026	42650	980950	C15	6000	122325	79241	
2027	42650	1023600			122325	86639	C10
2028	42650	1066250	C16	10000	132325	86639	
2029	42650	1108900			132325	93718	C11
2030	42650	1151550	C17	6000	138325	93718	
2031	42650	1194200			138325	100504	C12
2032	42650	1236850	C18	10000	148325	100504	
2033	42650	1279500			148325	107039	C13
2034	42650	1322150	C19	6000	154325	107039	
2035	42650	1364800			154325	113381	
2036	42650	1407450	C20	10000	164325	113381	
2037	42650	1450100			164325	119603	C14
2038	42650	1492750	C21	6000	170325	119603	
2039	42650	1535400			170325	125784	C15
2040	42650	1578050			170325	125784	
2041	42650	1620700	C22	10000	180325	132011	
2042	42650	1663350			180325	132011	
2043	42650	1706000			180325	138376	C16-C17
2044	42650	1748650	C23	6000	186325	138376	
2045	42650	1791300			186325	144971	
2046	42650	1833950	C24	10000	196325	144971	
2047	42650	1876600			196325	151886	C18
2048	42650	1919250			196325	151886	
2049	42650	1961900	C25	9035	205360	159208	C19
2050	42650	2004550			205360	159208	
2051	42650	2047200			205360	167015	C20
2052	42650	2089850	C26	6000	211360	167015	
2053	42650	2132500			211360	175374	C21
2054	42650	2175150			211360	175374	
2055	42650	2217800			211360	184342	C22
2056	42650	2260450	C27	9750	221110	184342	
2057	42650	2303100			221110	193955	C23
2058	42650	2345750			221110	193955	
2059	42650	2388400			221110	204235	C24
2060	42650	2431050			221110	204235	
2061	6100	2437150			221110	221110	C25-C27

L'efficacité du réseau de captage a été fixée à 85% en tenant compte de la mise en place d'un recouvrement final imperméable, constitué, entre autres, d'une géomembrane, d'une densité de puits élevée afin de permettre un chevauchement des rayons d'influence, ainsi que d'une pression d'aspiration élevée aux têtes de puits.

2.1.4 Estimation des émissions de biogaz à l'atmosphère

Comme des valeurs de "Lo" différentes ont été utilisées pour la modélisation de la génération du biogaz pour les phases 1, 2 et le nouveau LET et que le réseau de captage sera mis en opération progressivement au fur et à mesure de la fermeture finale de chaque cellule, l'estimation des débits de biogaz généré et capté ainsi que des débits émis à l'atmosphère pour chaque année, a été effectuée cellule par cellule.

Le niveau d'émissions au niveau du sol a donc été calculé en retranchant la sommation des débits captés pour chaque cellule à la sommation des débits générés par chaque cellule. Les émissions de biogaz à l'atmosphère ont ensuite été calculées en retranchant 10% du débit non capté aux émissions de biogaz au niveau du sol afin de refléter la dégradation biologique du gaz lors de son passage à travers le sol de recouvrement⁽⁴⁾.

2.2 RÉSULTATS

Les résultats de la modélisation de la génération du biogaz et de l'estimation des débits de biogaz émis à l'atmosphère sont présentés aux tableaux 2-2 et 2-3. La courbe de génération et de captage du biogaz pour la totalité du site, i.e. incluant l'implantation du nouveau LET, est présentée à la figure 2-2. La courbe de génération du biogaz représentative de la situation actuelle, i.e. phases 1 et 2 sans captage, est également incluse dans cette figure.

Le tableau 2-4 présente la contribution de chacune des parties du site aux émissions de biogaz à l'atmosphère. Les débits maximum de biogaz généré, capté et émis à l'atmosphère obtenus pour chaque secteur suivant le début de l'exploitation du nouveau LET en 2004, sont résumés au tableau 2-5.

Les résultats indiquent que globalement, le maximum de la génération du biogaz se produira en 2061, soit lors de la fermeture du site, avec un débit de 13,36 Mm³. Le niveau maximal d'émissions à l'atmosphère sera toutefois obtenu en 2052 avec un débit de 6,34 Mm³.

(⁴) TENT, J. et J.J. VAN DER BERG (1992): "Emissions and Emission Control at Landfill Sites", Proceedings of the 9th World Clean Air Congress, IUAPPA, Montreal, Canada, August 30 – September 4, 1992.

Tableau 2-2: Résultats de la modélisation de la génération du biogaz et estimation des émissions à l'atmosphère - Phases 1 et 2

ANNÉE	PHASE 1 Biogaz génééré (Mm3/an)	PHASE 1 Biogaz capté (Mm3/an)	PHASE 1 Biogaz émis sol (Mm3/an)	PHASE 1 Biogaz dégradé sol (Mm3/an)	PHASE 1 Biogaz émis atm. (Mm3/an)	PHASE 2 Biogaz génééré (Mm3/an)	PHASE 2 Biogaz capté (Mm3/an)	PHASE 2 Biogaz émis sol (Mm3/an)	PHASE 2 Biogaz dégradé sol (Mm3/an)	PHASE 2 Biogaz émis atm. (Mm3/an)
1981	0,64	0,00	0,64	0,06	0,58	0,00	0,00	0,00	0,00	0,00
1982	1,26	0,00	1,26	0,13	1,14	0,00	0,00	0,00	0,00	0,00
1983	1,86	0,00	1,86	0,19	1,67	0,00	0,00	0,00	0,00	0,00
1984	2,43	0,00	2,43	0,24	2,19	0,00	0,00	0,00	0,00	0,00
1985	2,98	0,00	2,98	0,30	2,68	0,00	0,00	0,00	0,00	0,00
1986	3,50	0,00	3,50	0,35	3,15	0,00	0,00	0,00	0,00	0,00
1987	4,01	0,00	4,01	0,40	3,61	0,00	0,00	0,00	0,00	0,00
1988	4,50	0,00	4,50	0,45	4,05	0,00	0,00	0,00	0,00	0,00
1989	4,97	0,00	4,97	0,50	4,47	0,00	0,00	0,00	0,00	0,00
1990	4,77	0,00	4,77	0,48	4,29	0,49	0,00	0,49	0,05	0,44
1991	4,58	0,00	4,58	0,46	4,13	0,97	0,00	0,97	0,10	0,87
1992	4,40	0,00	4,40	0,44	3,96	1,42	0,00	1,42	0,14	1,28
1993	4,23	0,00	4,23	0,42	3,81	1,86	0,00	1,86	0,19	1,67
1994	4,07	0,00	4,07	0,41	3,66	2,28	0,00	2,28	0,23	2,05
1995	3,91	0,00	3,91	0,39	3,52	2,68	0,00	2,68	0,27	2,41
1996	3,75	0,00	3,75	0,38	3,38	3,07	0,00	3,07	0,31	2,76
1997	3,61	0,00	3,61	0,36	3,25	3,44	0,00	3,44	0,34	3,10
1998	3,46	0,00	3,46	0,35	3,12	3,80	0,00	3,80	0,38	3,42
1999	3,33	0,00	3,33	0,33	3,00	4,14	0,00	4,14	0,41	3,73
2000	3,20	0,00	3,20	0,32	2,88	4,47	0,00	4,47	0,45	4,03
2001	3,07	0,00	3,07	0,31	2,76	4,79	0,00	4,79	0,48	4,31
2002	2,95	0,00	2,95	0,30	2,66	5,10	0,00	5,10	0,51	4,59
2003	2,84	0,00	2,84	0,28	2,55	5,39	0,00	5,39	0,54	4,85
2004	2,73	2,32	0,41	0,04	0,37	5,67	4,82	0,85	0,09	0,77
2005	2,62	2,23	0,39	0,04	0,35	5,45	4,63	0,82	0,08	0,74
2006	2,52	2,14	0,38	0,04	0,34	5,23	4,45	0,79	0,08	0,71
2007	2,42	2,05	0,36	0,04	0,33	5,03	4,28	0,75	0,08	0,68
2008	2,32	1,97	0,35	0,03	0,31	4,83	4,11	0,72	0,07	0,65
2009	2,23	1,90	0,33	0,03	0,30	4,64	3,95	0,70	0,07	0,63
2010	2,14	1,82	0,32	0,03	0,29	4,46	3,79	0,67	0,07	0,60
2011	2,06	1,75	0,31	0,03	0,28	4,29	3,64	0,64	0,06	0,58
2012	1,98	1,68	0,30	0,03	0,27	4,12	3,50	0,62	0,06	0,56
2013	1,90	1,62	0,29	0,03	0,26	3,96	3,36	0,59	0,06	0,53
2014	1,83	1,55	0,27	0,03	0,25	3,80	3,23	0,57	0,06	0,51
2015	1,76	1,49	0,26	0,03	0,24	3,65	3,10	0,55	0,05	0,49
2016	1,69	1,43	0,25	0,03	0,23	3,51	2,98	0,53	0,05	0,47
2017	1,62	1,38	0,24	0,02	0,22	3,37	2,87	0,51	0,05	0,46
2018	1,56	1,32	0,23	0,02	0,21	3,24	2,75	0,49	0,05	0,44
2019	1,50	1,27	0,22	0,02	0,20	3,11	2,65	0,47	0,05	0,42
2020	1,44	1,22	0,22	0,02	0,19	2,99	2,54	0,45	0,04	0,40
2021	1,38	1,17	0,21	0,02	0,19	2,87	2,44	0,43	0,04	0,39
2022	1,33	1,13	0,20	0,02	0,18	2,76	2,35	0,41	0,04	0,37
2023	1,27	1,08	0,19	0,02	0,17	2,65	2,25	0,40	0,04	0,36
2024	1,22	1,04	0,18	0,02	0,17	2,55	2,17	0,38	0,04	0,34
2025	1,18	1,00	0,18	0,02	0,16	2,45	2,08	0,37	0,04	0,33
2026	1,13	0,96	0,17	0,02	0,15	2,35	2,00	0,35	0,04	0,32
2027	1,09	0,92	0,16	0,02	0,15	2,26	1,92	0,34	0,03	0,31
2028	1,04	0,89	0,16	0,02	0,14	2,17	1,85	0,33	0,03	0,29
2029	1,00	0,85	0,15	0,02	0,14	2,09	1,77	0,31	0,03	0,28
2030	0,96	0,82	0,14	0,01	0,13	2,00	1,70	0,30	0,03	0,27
2031	0,93	0,79	0,14	0,01	0,12	1,93	1,64	0,29	0,03	0,26
2032	0,89	0,76	0,13	0,01	0,12	1,85	1,57	0,28	0,03	0,25
2033	0,85	0,73	0,13	0,01	0,12	1,78	1,51	0,27	0,03	0,24
2034	0,82	0,70	0,12	0,01	0,11	1,71	1,45	0,26	0,03	0,23
2035	0,79	0,67	0,12	0,01	0,11	1,64	1,39	0,25	0,02	0,22
2036	0,76	0,64	0,11	0,01	0,10	1,58	1,34	0,24	0,02	0,21
2037	0,73	0,62	0,11	0,01	0,10	1,51	1,29	0,23	0,02	0,20
2038	0,70	0,59	0,10	0,01	0,09	1,46	1,24	0,22	0,02	0,20
2039	0,67	0,57	0,10	0,01	0,09	1,40	1,19	0,21	0,02	0,19
2040	0,65	0,55	0,10	0,01	0,09	1,34	1,14	0,20	0,02	0,18
2041	0,62	0,53	0,09	0,01	0,08	1,29	1,10	0,19	0,02	0,17
2042	0,60	0,51	0,09	0,01	0,08	1,24	1,05	0,19	0,02	0,17
2043	0,57	0,49	0,09	0,01	0,08	1,19	1,01	0,18	0,02	0,16
2044	0,55	0,47	0,08	0,01	0,07	1,14	0,97	0,17	0,02	0,15
2045	0,53	0,45	0,08	0,01	0,07	1,10	0,94	0,17	0,02	0,15
2046	0,51	0,43	0,08	0,01	0,07	1,06	0,90	0,16	0,02	0,14
2047	0,49	0,41	0,07	0,01	0,07	1,02	0,86	0,15	0,02	0,14
2048	0,47	0,40	0,07	0,01	0,06	0,98	0,83	0,15	0,01	0,13

Tableau 2-2: Résultats de la modélisation de la génération du biogaz et estimation des émissions à l'atmosphère - Phases 1 et 2

ANNÉE	PHASE 1 Biogaz généralé (Mm3/an)	PHASE 1 Biogaz capté (Mm3/an)	PHASE 1 Biogaz émis sol (Mm3/an)	PHASE 1 Biogaz dégradé sol (Mm3/an)	PHASE 1 Biogaz émis atm. (Mm3/an)	PHASE 2 Biogaz généralé (Mm3/an)	PHASE 2 Biogaz capté (Mm3/an)	PHASE 2 Biogaz émis sol (Mm3/an)	PHASE 2 Biogaz dégradé sol (Mm3/an)	PHASE 2 Biogaz émis atm. (Mm3/an)
2049	0,45	0,38	0,07	0,01	0,06	0,94	0,80	0,14	0,01	0,13
2050	0,43	0,37	0,06	0,01	0,06	0,90	0,77	0,14	0,01	0,12
2051	0,42	0,35	0,06	0,01	0,06	0,87	0,74	0,13	0,01	0,12
2052	0,40	0,34	0,06	0,01	0,05	0,83	0,71	0,12	0,01	0,11
2053	0,38	0,33	0,06	0,01	0,05	0,80	0,68	0,12	0,01	0,11
2054	0,37	0,31	0,06	0,01	0,05	0,77	0,65	0,12	0,01	0,10
2055	0,35	0,30	0,05	0,01	0,05	0,74	0,63	0,11	0,01	0,10
2056	0,34	0,29	0,05	0,01	0,05	0,71	0,60	0,11	0,01	0,10
2057	0,33	0,28	0,05	0,00	0,04	0,68	0,58	0,10	0,01	0,09
2058	0,31	0,27	0,05	0,00	0,04	0,65	0,56	0,10	0,01	0,09
2059	0,30	0,26	0,05	0,00	0,04	0,63	0,53	0,09	0,01	0,08
2060	0,29	0,25	0,04	0,00	0,04	0,60	0,51	0,09	0,01	0,08
2061	0,28	0,24	0,04	0,00	0,04	0,58	0,49	0,09	0,01	0,08
2062	0,27	0,23	0,04	0,00	0,04	0,56	0,47	0,08	0,01	0,08
2063	0,26	0,22	0,04	0,00	0,03	0,54	0,46	0,08	0,01	0,07
2064	0,25	0,21	0,04	0,00	0,03	0,51	0,44	0,08	0,01	0,07
2065	0,24	0,20	0,04	0,00	0,03	0,49	0,42	0,07	0,01	0,07
2066	0,23	0,19	0,03	0,00	0,03	0,47	0,40	0,07	0,01	0,06
2067	0,22	0,19	0,03	0,00	0,03	0,46	0,39	0,07	0,01	0,06
2068	0,21	0,18	0,03	0,00	0,03	0,44	0,37	0,07	0,01	0,06
2069	0,20	0,17	0,03	0,00	0,03	0,42	0,36	0,06	0,01	0,06
2070	0,19	0,17	0,03	0,00	0,03	0,40	0,34	0,06	0,01	0,05
2071	0,19	0,16	0,03	0,00	0,03	0,39	0,33	0,06	0,01	0,05
2072	0,18	0,15	0,03	0,00	0,02	0,37	0,32	0,06	0,01	0,05
2073	0,17	0,15	0,03	0,00	0,02	0,36	0,30	0,05	0,01	0,05
2074	0,17	0,14	0,02	0,00	0,02	0,34	0,29	0,05	0,01	0,05
2075	0,16	0,14	0,02	0,00	0,02	0,33	0,28	0,05	0,00	0,04
2076	0,15	0,13	0,02	0,00	0,02	0,32	0,27	0,05	0,00	0,04
2077	0,15	0,12	0,02	0,00	0,02	0,31	0,26	0,05	0,00	0,04
2078	0,14	0,12	0,02	0,00	0,02	0,29	0,25	0,04	0,00	0,04
2079	0,14	0,12	0,02	0,00	0,02	0,28	0,24	0,04	0,00	0,04
2080	0,13	0,11	0,02	0,00	0,02	0,27	0,23	0,04	0,00	0,04
2081	0,13	0,11	0,02	0,00	0,02	0,26	0,22	0,04	0,00	0,04
2082	0,12	0,10	0,02	0,00	0,02	0,25	0,21	0,04	0,00	0,03
2083	0,12	0,10	0,02	0,00	0,02	0,24	0,20	0,04	0,00	0,03
2084	0,11	0,09	0,02	0,00	0,01	0,23	0,20	0,03	0,00	0,03
2085	0,11	0,09	0,02	0,00	0,01	0,22	0,19	0,03	0,00	0,03
2086	0,10	0,09	0,02	0,00	0,01	0,21	0,18	0,03	0,00	0,03
2087	0,10	0,08	0,01	0,00	0,01	0,21	0,17	0,03	0,00	0,03
2088	0,09	0,08	0,01	0,00	0,01	0,20	0,17	0,03	0,00	0,03
2089	0,09	0,08	0,01	0,00	0,01	0,19	0,16	0,03	0,00	0,03
2090	0,09	0,07	0,01	0,00	0,01	0,18	0,15	0,03	0,00	0,02
2091	0,08	0,07	0,01	0,00	0,01	0,17	0,15	0,03	0,00	0,02
2092	0,08	0,07	0,01	0,00	0,01	0,17	0,14	0,03	0,00	0,02
2093	0,08	0,07	0,01	0,00	0,01	0,16	0,14	0,02	0,00	0,02
2094	0,07	0,06	0,01	0,00	0,01	0,15	0,13	0,02	0,00	0,02
2095	0,07	0,06	0,01	0,00	0,01	0,15	0,13	0,02	0,00	0,02
2096	0,07	0,06	0,01	0,00	0,01	0,14	0,12	0,02	0,00	0,02
2097	0,07	0,06	0,01	0,00	0,01	0,14	0,12	0,02	0,00	0,02
2098	0,06	0,05	0,01	0,00	0,01	0,13	0,11	0,02	0,00	0,02
2099	0,06	0,05	0,01	0,00	0,01	0,13	0,11	0,02	0,00	0,02
2100	0,06	0,05	0,01	0,00	0,01	0,12	0,10	0,02	0,00	0,02

Tableau 2-3: Résultats de la modélisation de la génération du biogaz et estimation des émissions à l'atmosphère - LET de Rimouski

ANNÉE	C15 Biogaz général (Mm ³ /an)	C15 Biogaz capté (Mm ³ /an)	C16 Biogaz général (Mm ³ /an)	C16 Biogaz capté (Mm ³ /an)	C17 Biogaz général (Mm ³ /an)	C17 Biogaz capté (Mm ³ /an)	C18 Biogaz général (Mm ³ /an)	C18 Biogaz capté (Mm ³ /an)	C19 Biogaz général (Mm ³ /an)	C19 Biogaz capté (Mm ³ /an)	C20 Biogaz général (Mm ³ /an)	C20 Biogaz capté (Mm ³ /an)	C21 Biogaz général (Mm ³ /an)	C21 Biogaz capté (Mm ³ /an)	C22 Biogaz général (Mm ³ /an)	C22 Biogaz capté (Mm ³ /an)	C23 Biogaz général (Mm ³ /an)	C23 Biogaz capté (Mm ³ /an)	C24 Biogaz général (Mm ³ /an)	C24 Biogaz capté (Mm ³ /an)	C25-27 Biogaz général (Mm ³ /an)	C25-27 Biogaz capté (Mm ³ /an)	Biogaz général total (Mm ³ /an)	Biogaz capté total (Mm ³ /an)	Biogaz émis sol (Mm ³ /an)	Biogaz dégrader sol (Mm ³ /an)	Biogaz émis atmosphère (Mm ³ /an)
2004																							0,00	0,00	0,00	0,00	0,00
2005																							0,55	0,00	0,55	0,05	0,49
2006																							1,07	0,00	1,07	0,11	0,96
2007																							1,57	0,00	1,57	0,16	1,42
2008																							2,06	0,00	2,06	0,21	1,85
2009																							2,52	0,40	2,13	0,21	1,92
2010																							2,97	0,38	2,59	0,26	2,33
2011																							3,40	0,74	2,66	0,27	2,39
2012																							3,81	0,72	3,10	0,31	2,79
2013																							4,21	0,69	3,52	0,35	3,17
2014																							4,59	0,66	3,93	0,39	3,54
2015																							4,96	0,97	3,98	0,40	3,59
2016																							5,31	0,93	4,37	0,44	3,94
2017																							5,65	1,91	3,74	0,37	3,36
2018																							5,97	1,83	4,14	0,41	3,72
2019																							6,28	2,10	4,18	0,42	3,76
2020																							6,58	2,02	4,57	0,46	4,11
2021																							6,87	2,26	4,61	0,46	4,15
2022																							7,15	2,17	4,97	0,50	4,48
2023																							7,41	2,72	4,69	0,47	4,22
2024																							7,67	2,62	5,05	0,51	4,55
2025																							7,91	3,15	4,76	0,48	4,29
2026																							8,15	3,02	5,12	0,51	4,61
2027	0,55																						8,37	3,54	4,83	0,48	4,35
2028	1,07																						8,59	3,40	5,19	0,52	4,67
2029	1,03		0,55																				8,80	3,90	4,90	0,49	4,41
2030	0,99		1,07																				9,00	3,75	9,00	5,23	4,73
2031	0,95		1,03		0,55																		9,19	4,24	4,96	0,50	4,46
2032	0,91		0,99		1,07																		9,38	4,07	5,31	0,53	4,78
2033	0,88		0,95		1,03		0,55																9,56	4,55	5,01	0,50	4,51
2034	0,84		0,91		0,99		1,07																9,73	4,37	5,36	0,54	4,82
2035	0,81		0,88		0,95		1,03		0,55														9,89	4,20	5,70	0,57	5,13
2036	0,78		0,84		0,91		1,07		0,55														10,05	4,03	6,02	0,60	5,42
2037	0,75		0,81		0,88		0,95		1,03		0,55												10,20	4,46	5,74	0,57	5,17
2038	0,72		0,78		0,84		0,91		0,99		1,07												10,35	4,29	6,06	0,61	5,46
2039	0,69	0,59	0,75		0,81		0,88		0,95		1,03		0,55										10,49	4,70	5,79	0,58	5,21
2040	0,66	0,56	0,72		0,78		0,84		0,91		0,99		1,07										10,62	4,52	6,11	0,61	5,49
2041	0,64	0,54	0,69		0,75		0,81		0,88		0,95		1,03										10,75	4,34	6,41	0,64	5,77
2042	0,61	0,52	0,66		0,72		0,78		0,84		0,91		1,07		0,55								10,88	4,17	6,71	0,67	6,04
2043	0,59	0,50	0,64	0,54	0,69	0,59	0,75		0,81		0,88		1,45		1,07								11,00	5,14	5,86	0,59	5,28
2044	0,56	0,48	0,61	0,52	0,66	0,56	0,72		0,78		0,84		1,40		1,57								11,11	4,93	6,18	0,62	5,56
2045	0,54	0,46	0,59	0,50	0,64	0,54	0,69		0,75		0,81		1,34		1,51		0,55						11,22	4,74	6,48	0,65	5,83
2046	0,52	0,44	0,56	0,48	0,61	0,52	0,66		0,72		0,78		1,29		1,45		1,07						11,33	4,55	6,77	0,68	6,10
2047	0,50	0,43	0,54	0,46	0,59	0,50	0,64	0,54	0,69		0,75		1,24		1,40		1,03						11,43	4,92	6,51	0,65	5,86
2048	0,48	0,41	0,52	0,44	0,56	0,48	0,61	0,52	0,66		0,72		1,19		1,34		0,99						11,53	4,72	6,80	0,68	6,12
2049	0,46	0,39	0,50	0,43	0,54	0,46	0,59	0,50	0,64	0,54	0,69		1,14		1,29		0,95						11,62	5,08	6,54	0,65	5,89
2050	0,44	0,38	0,48	0,41	0,52	0,44	0,56	0,48	0,61	0,52	0,66		1,10		1,24		0,91						11,71	4,88	6,83	0,68	6,15
2051	0,43	0,36	0,46	0,39	0,50	0,43	0,54	0,46	0,59	0,50	0,64	0,54	1,06		1,19		0,88						11,80	5,23	6,57	0,66	5,91
2052	0,41	0,35	0,44	0,38	0,48	0,41	0,52	0,44	0,56	0,48	0,61	0,52	1,01		1,14		0,84						11,88	5,02	6,86	0,69	6,17
2053	0,39	0,33	0,43	0,36	0,46	0,39	0,50	0,43	0,54	0,46	0,59	0,50	0,97		1,10		0,81						11,96	5,66	6,31	0,63	5,67
2054	0,38	0,32	0,41	0,35	0,44	0,38	0,48	0,41	0,52	0,44	0,56	0,48	0,94		1,06		0,78						12,04	5,43	6,60	0,66	5,94
2055	0,36	0,31	0,39	0,33	0,43	0,36	0,46	0,39	0,50	0,43	0,54	0,46	0,90		1,01		0,75						12,11	6,03	6,03	0,60	5,43
2056	0,35	0,30	0,38	0,32	0,41	0,35	0,44	0,38	0,48	0,41	0,52	0,44	0,86		0,97		0,83						12,19	5,84	6,34	0,63	5,70
2057	0,34	0,29	0,36	0,31	0,39	0,33	0,43	0,36	0,46	0,39	0,50	0,43	0,83		0,94		0,80						12,25	6,20	6,05	0,60	5,44
2058	0,32	0,27	0,35	0,30	0,38	0,32	0,41	0,35	0,44	0,38	0,48	0,41	0,80		0,90		0,76						12,32	5,96	6,36	0,64	5,72
2059	0,31	0,26	0,34	0,29	0,36	0,31	0,39	0,33	0,43	0,36	0,46	0,39	0,77		0,85		0,73						12,38	6,62	5,76	0,58	5,18
2060	0,30	0,25	0,32	0,27	0,35	0,30	0,38	0,32	0,41	0,35	0,44	0,38	0,74		0,83		0,61						12,44	6,36	6,08	0,61	5,47
2061	0,29	0,24	0,31	0,26	0,34	0,29	0,36	0,31	0,39	0,33	0,43	0,36	0,71		0,80		0,59						12,50	10,62	1,87	0,19	1,69
2062	0,27	0,23	0,30	0,25	0,32	0,27	0,35	0,30	0,38	0,32	0,41	0,35	0,68		0,77		0,56						12,59	10,27	1,81	0,18	1,63
2063	0,26	0,22	0,29	0,24	0,31	0,26	0,34	0,29	0,36	0,31	0,39	0,33	0,65		0,74		0,54						12,67	9,87	1,74	0,17	1,57
2064	0,25	0,22	0,27	0,23	0,30	0,25	0,32	0,27	0,35	0,30	0,38	0,32	0,63		0,71		0,52						12,74	9,48	1,67	0,17	1,51
2065	0,24	0,21	0,26	0,22	0,29	0,24	0,31	0,26	0,34	0,29	0,36	0,31	0,60		0,68		0,50						12,81	9,11	1,61	0,16	1,45
2066	0,23	0,20	0,25	0,22	0,27	0,23	0,30	0,25	0,32	0,27	0,35	0,30	0,58		0,65		0,48						12,87	8,75	1,54	0,15	1,39
2067	0,23	0,19	0,24	0,21	0,26</																						

Figure 2-2 : Modélisation de la génération et du captage du biogaz
Site de Rimouski

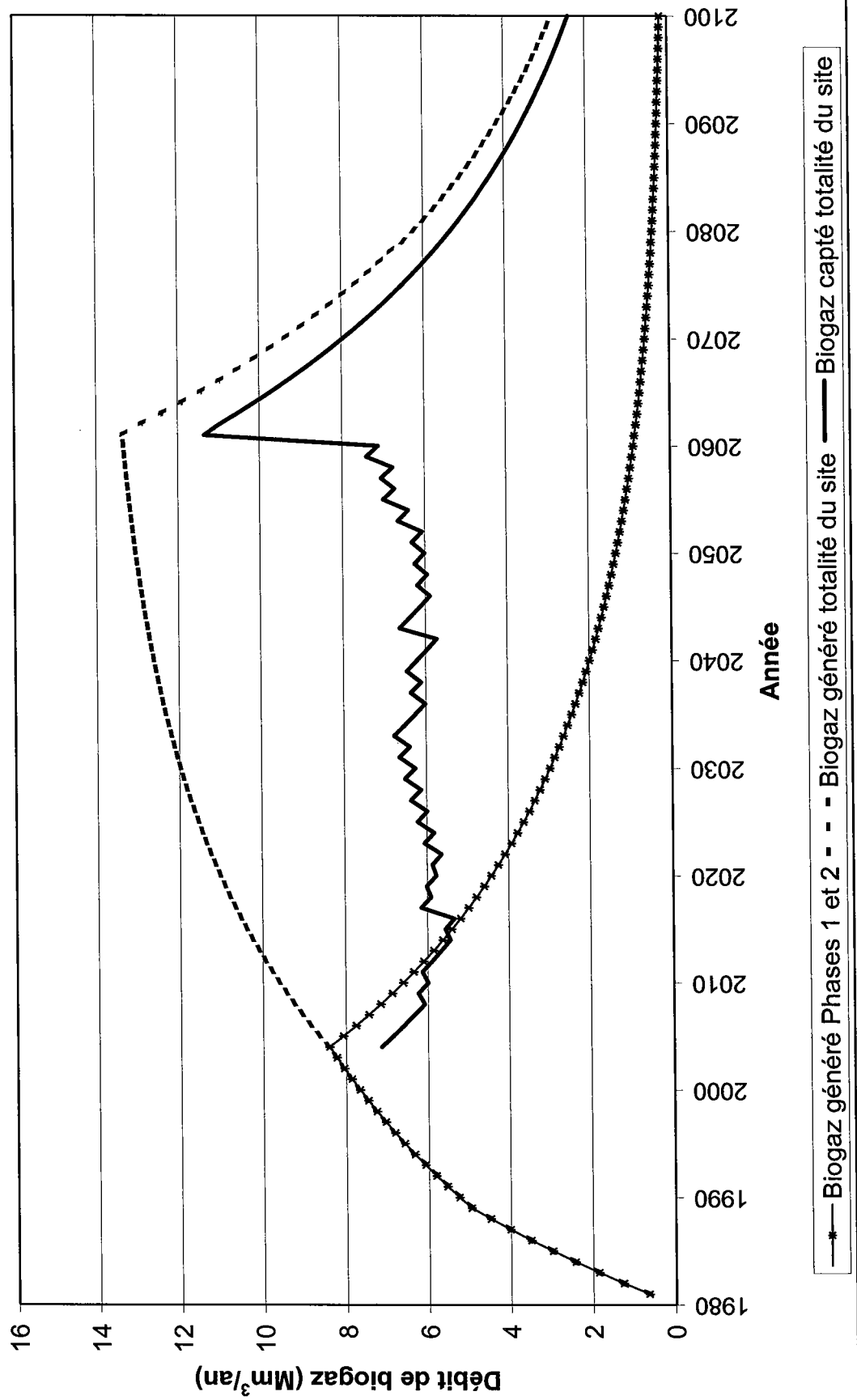


Tableau 2-4: Estimation des émissions de biogaz à l'atmosphère - LES et LET de Rimouski				
ANNÉE	PHASE 1 Biogaz émis atm. (Mm³/an)	PHASE 2 Biogaz émis atm. (Mm³/an)	LET Biogaz émis atm. (Mm³/an)	TOTAL Biogaz émis atm. (Mm³/an)
1981	0,58	0,00	0,00	0,58
1982	1,14	0,00	0,00	1,14
1983	1,67	0,00	0,00	1,67
1984	2,19	0,00	0,00	2,19
1985	2,68	0,00	0,00	2,68
1986	3,15	0,00	0,00	3,15
1987	3,61	0,00	0,00	3,61
1988	4,05	0,00	0,00	4,05
1989	4,47	0,00	0,00	4,47
1990	4,29	0,44	0,00	4,74
1991	4,13	0,87	0,00	5,00
1992	3,96	1,28	0,00	5,24
1993	3,81	1,67	0,00	5,48
1994	3,66	2,05	0,00	5,71
1995	3,52	2,41	0,00	5,93
1996	3,38	2,76	0,00	6,14
1997	3,25	3,10	0,00	6,34
1998	3,12	3,42	0,00	6,54
1999	3,00	3,73	0,00	6,72
2000	2,88	4,03	0,00	6,90
2001	2,76	4,31	0,00	7,08
2002	2,66	4,59	0,00	7,24
2003	2,55	4,85	0,00	7,40
2004	0,37	0,77	0,00	1,13
2005	0,35	0,74	0,49	1,58
2006	0,34	0,71	0,96	2,01
2007	0,33	0,68	1,42	2,42
2008	0,31	0,65	1,85	2,82
2009	0,30	0,63	1,92	2,84
2010	0,29	0,60	2,33	3,22
2011	0,28	0,58	2,39	3,25
2012	0,27	0,56	2,79	3,61
2013	0,26	0,53	3,17	3,96
2014	0,25	0,51	3,54	4,30
2015	0,24	0,49	3,59	4,32
2016	0,23	0,47	3,94	4,64
2017	0,22	0,46	3,36	4,04
2018	0,21	0,44	3,72	4,37
2019	0,20	0,42	3,76	4,39
2020	0,19	0,40	4,11	4,71
2021	0,19	0,39	4,15	4,72
2022	0,18	0,37	4,48	5,03
2023	0,17	0,36	4,22	4,75
2024	0,17	0,34	4,55	5,06
2025	0,16	0,33	4,29	4,78
2026	0,15	0,32	4,61	5,08
2027	0,15	0,31	4,35	4,80
2028	0,14	0,29	4,67	5,11
2029	0,14	0,28	4,41	4,83
2030	0,13	0,27	4,73	5,13
2031	0,12	0,26	4,46	4,85
2032	0,12	0,25	4,78	5,15
2033	0,12	0,24	4,51	4,87
2034	0,11	0,23	4,82	5,17
2035	0,11	0,22	5,13	5,46
2036	0,10	0,21	5,42	5,73
2037	0,10	0,20	5,17	5,47
2038	0,09	0,20	5,46	5,75
2039	0,09	0,19	5,21	5,49
2040	0,09	0,18	5,49	5,76
2041	0,08	0,17	5,77	6,03
2042	0,08	0,17	6,04	6,28
2043	0,08	0,16	5,28	5,51

Tableau 2-4: Estimation des émissions de biogaz à l'atmosphère - LES et LET de Rimouski				
ANNÉE	PHASE 1 Biogaz émis atm. (Mm³/an)	PHASE 2 Biogaz émis atm. (Mm³/an)	LET Biogaz émis atm. (Mm³/an)	TOTAL Biogaz émis atm. (Mm³/an)
2044	0,07	0,15	5,56	5,79
2045	0,07	0,15	5,83	6,05
2046	0,07	0,14	6,10	6,31
2047	0,07	0,14	5,86	6,06
2048	0,06	0,13	6,12	6,32
2049	0,06	0,13	5,89	6,08
2050	0,06	0,12	6,15	6,33
2051	0,06	0,12	5,91	6,08
2052	0,05	0,11	6,17	6,34
2053	0,05	0,11	5,67	5,83
2054	0,05	0,10	5,94	6,10
2055	0,05	0,10	5,43	5,57
2056	0,05	0,10	5,70	5,85
2057	0,04	0,09	5,44	5,58
2058	0,04	0,09	5,72	5,85
2059	0,04	0,08	5,18	5,31
2060	0,04	0,08	5,47	5,59
2061	0,04	0,08	1,69	1,80
2062	0,04	0,08	1,63	1,74
2063	0,03	0,07	1,57	1,67
2064	0,03	0,07	1,51	1,61
2065	0,03	0,07	1,45	1,55
2066	0,03	0,06	1,39	1,49
2067	0,03	0,06	1,34	1,43
2068	0,03	0,06	1,28	1,37
2069	0,03	0,06	1,23	1,32
2070	0,03	0,05	1,18	1,27
2071	0,03	0,05	1,14	1,22
2072	0,02	0,05	1,09	1,17
2073	0,02	0,05	1,05	1,12
2074	0,02	0,05	1,01	1,08
2075	0,02	0,04	0,97	1,04
2076	0,02	0,04	0,93	1,00
2077	0,02	0,04	0,90	0,96
2078	0,02	0,04	0,86	0,92
2079	0,02	0,04	0,83	0,88
2080	0,02	0,04	0,79	0,85
2081	0,02	0,04	0,76	0,82
2082	0,02	0,03	0,73	0,78
2083	0,02	0,03	0,70	0,75
2084	0,01	0,03	0,68	0,72
2085	0,01	0,03	0,65	0,69
2086	0,01	0,03	0,62	0,67
2087	0,01	0,03	0,60	0,64
2088	0,01	0,03	0,58	0,62
2089	0,01	0,03	0,55	0,59
2090	0,01	0,02	0,53	0,57
2091	0,01	0,02	0,51	0,55
2092	0,01	0,02	0,49	0,53
2093	0,01	0,02	0,47	0,50
2094	0,01	0,02	0,45	0,48
2095	0,01	0,02	0,44	0,47
2096	0,01	0,02	0,42	0,45
2097	0,01	0,02	0,40	0,43
2098	0,01	0,02	0,39	0,41
2099	0,01	0,02	0,37	0,40
2100	0,01	0,02	0,36	0,38

Tableau 2-5 : Sommaire des résultats – LES et LET de Rimouski				
	PHASE 1*	PHASE 2*	LET	TOTALITE DU SITE
Débit maximal de biogaz généré (Mm3/an)	2.73 en 2004	5.67 en 2004	12.50 en 2061	13.36 en 2061
Débit maximal de biogaz capté (Mm3/an)	2.32 en 2004	4.82 en 2004	10.62 en 2061	11.35 en 2061
Émissions maximales de biogaz à l'atmosphère (Mm3/an)	0.37 en 2004	0.77 en 2004	6.17 en 2052	6.34 en 2052

* Les résultats indiqués pour les phases 1 et 2 excluent la période antérieure à 2004.

PARTIE 3 – Modélisation de la dispersion atmosphérique

3. MODÉLISATION DE LA DISPERSION ATMOSPHÉRIQUE

3.1 MÉTHODOLOGIE

La principale cause d'odeurs identifiée dans le cadre de la présente étude est le dégagement de composés de soufre réduit totaux (SRT) produits par la décomposition des déchets. Le lieu d'enfouissement étant localisé en milieu rural, le bruit de fond a été considéré comme nul.

Les concentrations dans l'air ambiant de SRT à l'extérieur des limites de propriété, sont simulées pour l'année où le taux d'émission de biogaz à l'atmosphère est maximal, soit en 2052 tel qu'indiqué à la section 2.2. Ces concentrations sont déterminées en fonction de données météorologiques locales à l'aide du modèle de dispersion atmosphérique ISC3(ST) qui est un modèle stationnaire et à dispersion Gaussienne, recommandé par l'EPA depuis 1979.

Les sous-sections suivantes présentent les différents paramètres de modélisation utilisés.

3.1.1 Facteur d'émission

Les facteurs d'émission de SRT utilisés comme intrants dans le logiciel ISC3(ST), ont été calculés en fonction de la concentration typique des différents SRT retrouvés dans le biogaz, des surfaces d'enfouissement et des débits de biogaz émis à l'atmosphère correspondant à chaque partie du site pour l'année où le niveau d'émission total est maximal, soit en 2052.

Les concentrations moyennes typiques des SRT retrouvés dans le biogaz, telles que rapportées dans le document AP-42 de l'EPA (voir référence 1), sont les suivantes:

Composé	Concentration volumique (ppmv)	Masse molaire (g/mol)	Concentration massique (mg/m ³)
Sulfure d'hydrogène	35.5	34.1	49.3
Sulfure de diméthyle	7.82	62.13	19.9
Méthyle mercaptan	2.49	48.11	4.9
SRT			74.1

Le calcul des facteurs d'émission utilisés pour chaque secteur du site est présenté au tableau 3-1.

3.1.2 *Caractéristiques des sources d'émissions*

La surface du lieu d'enfouissement a été subdivisée en quatre parties, correspondant à quatre sources de surface distinctes, afin de refléter les facteurs d'émission différents de chaque secteur du site et de mieux représenter la configuration du nouveau LET. Les caractéristiques de ces quatre sources de surface sont présentées au tableau 3-2. La figure 3-1 présente la localisation de ces 4 sources à l'intérieur des limites de propriété.

3.1.3 *Caractéristiques de la grille de récepteurs*

L'aire d'étude couvre une superficie de 16 km² (voir figure 3-1). Elle est caractérisée par un relief légèrement montagneux au sud et de type rural. Le lieu d'enfouissement se situe à une altitude d'environ 92 mètres en moyenne.

La grille de récepteurs est centrée sur le site d'enfouissement. La grille comprend 441 points et le maillage est de 200 m par 200 m. L'axe des Y est dans la direction nord-sud et l'axe des X dans la direction est-ouest. Les élévations des 441 points de la grille réceptrice ont été déterminées à l'aide de la carte topographique informatisée de la région et sont présentées au tableau 3-3.

La figure 3-1 présente également la localisation des 5 résidences les plus rapprochées du site.

3.1.4 *Données météorologiques*

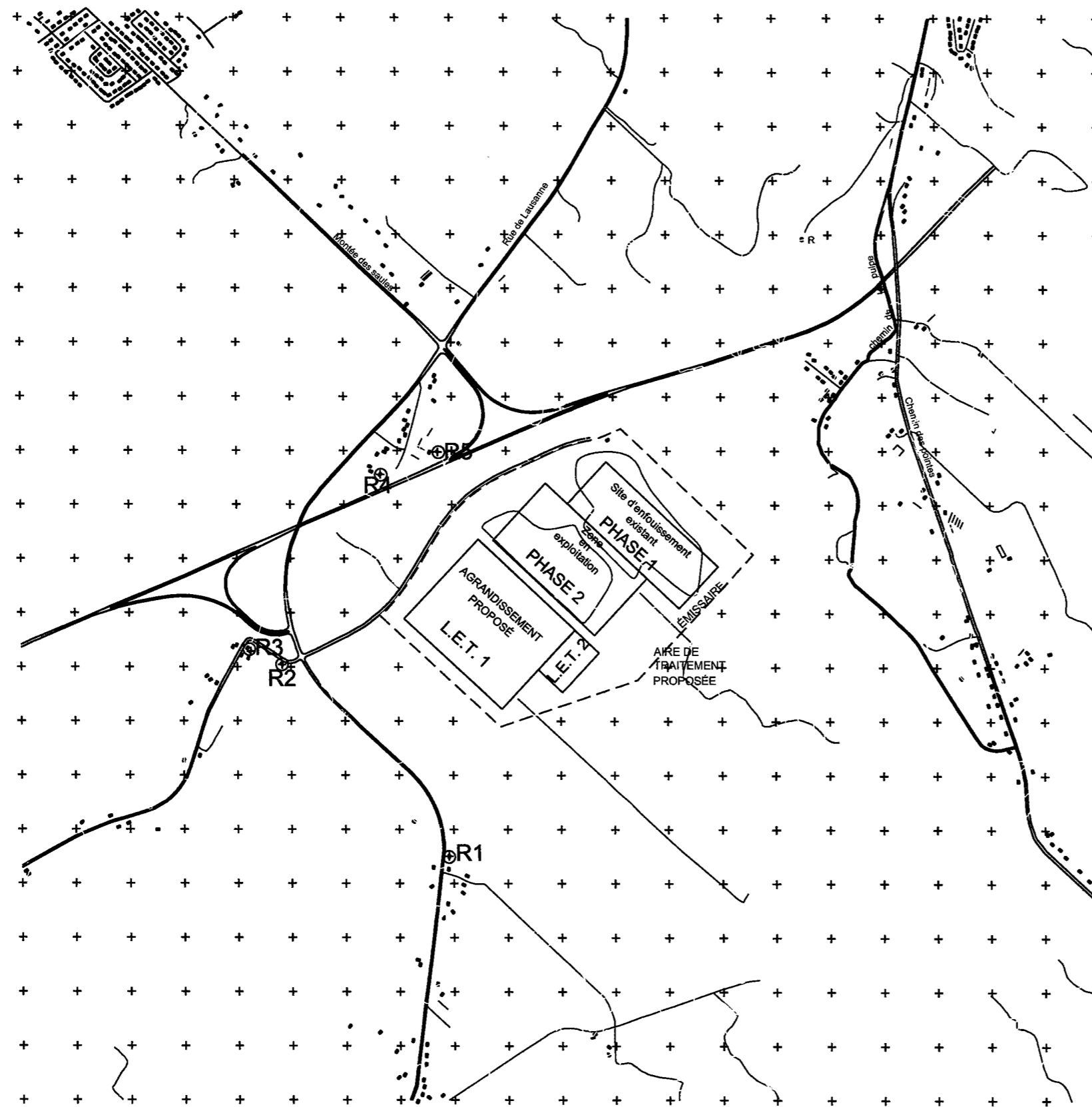
Les données météorologiques nécessaires à la modélisation sont les suivantes:

- Température;
- Vitesse des vents;
- Direction des vents;
- Stabilité;
- Hauteur de mélange.

Les données de température, de vitesse et de direction des vents et de stabilité proviennent de la station météorologique de l'aéroport de Mont-Joli. Les données de hauteur de mélange proviennent de la station de Sept-Iles adaptées aux conditions de la station de Mont-Joli. Les données des années 1996 à 2000 ont été utilisées. Le choix de ces données a été approuvé par M. Richard Leduc du Ministère de l'Environnement du Québec.

Tableau 3-1 : Calcul des facteurs d'émission - LES et LET de Rimouski

Émissions maximales à l'atmosphère en 2052	
PHASE 1	
Débit maximal de biogaz émis à l'atmosphère	0,05 Mm ³ /an 0,002 m ³ /s
Concentration de SRT dans le biogaz	74,1 mg/m ³
Débit maximal de SRT à l'atmosphère	0,0001 g/s
Surface d'enfouissement	126000 m ²
Facteur d'émission des SRT	9,3242E-10 g/s/m ²
PHASE 2	
Débit maximal de biogaz émis à l'atmosphère	0,11 Mm ³ /an 0,003 m ³ /s
Concentration de SRT dans le biogaz	74,1 mg/m ³
Débit maximal de SRT à l'atmosphère	0,0003 g/s
Surface d'enfouissement	148700 m ²
Facteur d'émission des SRT	1,7382E-09 g/s/m ²
LET	
Débit maximal de biogaz émis à l'atmosphère	6,17 Mm ³ /an 0,196 m ³ /s
Concentration de SRT dans le biogaz	74,1 mg/m ³
Débit maximal de SRT à l'atmosphère	0,014 g/s
Surface d'enfouissement	221110 m ²
Facteur d'émission des SRT	6,5567E-08 g/s/m ²



LÉGENDE

- + RÉCEPTEUR (GRILLE)
- - - LIMITE DE PROPRIÉTÉ
- OR1 RÉSIDENCE RAPPROCHÉE
- SOURCE

PRÉPARÉ POUR:



PRÉPARÉ PAR:

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TITRE DU PROJET:

L E T de Rimouski
Étude d'impacts

TITRE DU PLAN:

DISPERSION ATMOSPHÉRIQUE DES S.R.T.
LOCALISATION DES SOURCES ET RÉCEPTEURS

DESSIN: MB	ECHÉLLE: aucune	PROJET No: 01-755
VERIF. CV	DATE: 5 JUIN 2002	FIGURE No: 3-1

Tableau 3-2 : Caractéristiques des sources d'émission

Source	Localisation		Z (m)	Longueur X (m)	Largeur Y (m)	Angle (°)	Taux d'émission (g/s/m ²)
	X (m)	Y (m)					
Phase 1	225949	5364017	85	567	211	43	9,3242E-10
Phase 2	225671	5363882	90	515	288	43	1,7382E-09
LET 1	225359	5363574	99	490	401	43	6,5567E-08
LET 2	225855	5363389	99	123	200	43	6,5567E-08

Tableau 3-3 : Topographie de l'aire d'étude - Élévations (mètres)

	223919,6	224119,6	224319,6	224519,6	224719,6	224919,6	225119,6	225319,6	225519,6	225719,6	225919,6	226119,6	226319,6	226519,6	226719,6	226919,6	227119,6	227319,6	227519,6	227719,6	227919,6
5361811,5	174,8	171,6	175,3	177,9	183,9	187,3	191,5	189,4	183,8	167,5	154,9	148,5	143,3	132,9	105,8	73,1	72,7	35,5	57,0	103,5	117,1
5362011,5	158,5	163,6	170,9	170,0	180,0	176,0	177,9	177,2	175,1	169,1	161,4	141,7	135,2	110,2	120,0	118,0	97,2	42,5	56,2	85,9	101,4
5362211,5	150,9	152,4	159,9	168,3	165,1	173,3	170,0	170,1	168,5	165,2	155,0	140,0	136,9	119,3	120,0	114,8	98,2	35,4	83,2	91,1	94,5
5362411,5	150,0	150,0	150,2	156,2	160,0	162,0	165,7	160,3	160,0	160,6	158,3	146,2	127,4	97,2	109,8	111,9	82,2	40,9	91,8	100,5	104,4
5362611,5	109,5	134,4	139,6	145,6	150,1	149,4	155,1	151,3	154,5	151,4	150,5	150,0	134,5	99,0	98,5	103,7	45,5	58,2	90,4	100,1	101,8
5362811,5	100,0	105,2	118,5	123,8	131,0	135,0	135,7	135,0	134,9	136,0	136,4	138,4	128,5	94,8	83,1	94,7	30,0	45,3	79,0	100,0	93,9
5363011,5	99,6	99,5	103,2	109,5	114,0	110,2	110,0	114,0	114,6	115,1	119,1	124,4	115,5	91,3	73,9	75,2	34,0	70,0	71,2	83,7	92,6
5363211,5	98,3	98,3	98,9	99,8	101,8	95,6	94,0	95,8	101,1	105,7	109,1	114,6	109,7	95,4	79,4	32,9	46,5	70,0	76,9	80,0	100,0
5363411,5	97,0	97,3	97,7	99,1	93,0	88,3	90,0	92,2	95,9	99,6	100,4	103,8	105,4	89,2	73,1	30,0	66,7	71,7	80,0	80,0	90,1
5363611,5	95,8	96,2	96,8	98,8	94,1	85,2	85,3	90,8	94,6	97,0	91,3	92,9	100,0	85,9	52,1	31,2	58,2	75,3	81,7	80,0	86,7
5363811,5	94,5	94,8	96,2	98,5	96,4	93,8	90,3	80,1	92,2	91,4	88,4	85,4	87,3	82,2	52,9	30,0	48,7	75,3	83,3	87,0	90,0
5364011,5	93,2	93,8	95,9	98,3	109,1	99,4	94,7	90,0	83,4	85,7	81,5	82,8	82,5	81,1	55,7	25,2	62,8	75,6	85,1	89,5	96,1
5364211,5	92,0	93,4	95,7	97,4	99,9	120,6	98,9	93,2	82,8	80,7	72,7	80,0	80,0	65,3	20,0	49,7	70,6	85,6	100,0	99,8	100,0
5364411,5	90,8	92,7	95,8	99,3	98,8	97,4	98,4	97,5	91,9	86,6	80,2	53,8	60,8	54,3	33,6	51,6	68,0	84,8	100,0	97,1	93,2
5364611,5	93,1	94,9	98,4	99,2	97,7	96,3	94,8	95,0	92,4	87,5	83,4	80,1	71,9	32,7	16,1	45,9	56,9	76,2	99,1	88,4	60,0
5364811,5	89,2	102,4	100,7	98,2	96,6	95,2	93,7	92,2	91,4	88,3	85,0	81,6	72,4	37,0	12,9	39,0	46,5	53,8	73,7	58,1	68,7
5365011,5	77,5	89,0	99,4	110,0	108,6	99,3	97,0	94,0	90,3	86,9	83,4	80,4	73,0	36,7	16,6	13,0	38,8	45,1	33,0	86,6	90,0
5365211,5	63,2	69,7	83,5	94,1	102,4	105,6	98,4	90,5	88,5	87,7	85,2	82,7	80,0	53,6	24,6	10,0	12,7	20,0	47,5	90,0	90,0
5365411,5	56,6	61,2	66,9	72,1	85,8	96,4	96,6	87,4	86,2	85,7	85,0	83,7	80,5	80,0	43,0	20,8	10,0	26,8	45,6	59,9	74,6
5365611,5	49,4	56,0	62,5	64,9	67,6	69,8	84,0	86,0	83,4	83,5	82,8	82,3	81,6	80,0	56,3	49,0	10,0	16,7	44,9	80,0	80,0
5365811,5	32,8	43,7	51,8	59,2	61,8	63,5	66,1	71,4	80,5	81,1	80,7	80,0	78,7	73,3	50,4	28,8	10,0	15,5	29,2	60,4	75,0

La rose des vents caractéristique des données enregistrées à l'aéroport de Mont-Joli est présentée à la figure 3-2. Celle-ci indique que les vents dominants soufflent du sud-ouest.

3.1.5 Fichiers d'entrée ISC3(ST)

Les fichiers d'entrée du logiciel de dispersion contiennent la totalité des données présentées aux sous-sections 3.1.1 à 3.1.4. Ceux-ci sont présentés à l'annexe I.

3.2 RÉSULTATS

Les concentrations maximales de SRT calculées sur une période de 1 heure sont présentées au tableau 3.4. Les concentrations sont comparées à la norme suggérée dans le projet de modification du Règlement sur la qualité de l'atmosphère, qui fixe à $6 \mu\text{g}/\text{m}^3$ la concentration maximale acceptable de SRT dans l'air ambiant à la limite de propriété.

Pour chaque année simulée, les concentrations moyennes maximales horaires obtenues en chaque point de la grille de récepteurs sont présentées à l'annexe II. Les tableaux des 50 plus hautes valeurs simulées sur l'ensemble de la grille de récepteurs pour chaque année de simulation, tels que demandés par le ministère, sont présentés à l'annexe III. Le profil de dispersion pour l'année 1999 est présenté à la figure 3-3. Cette année a été choisie car elle correspond à une année où la concentration maximale horaire la plus élevée a été enregistrée.

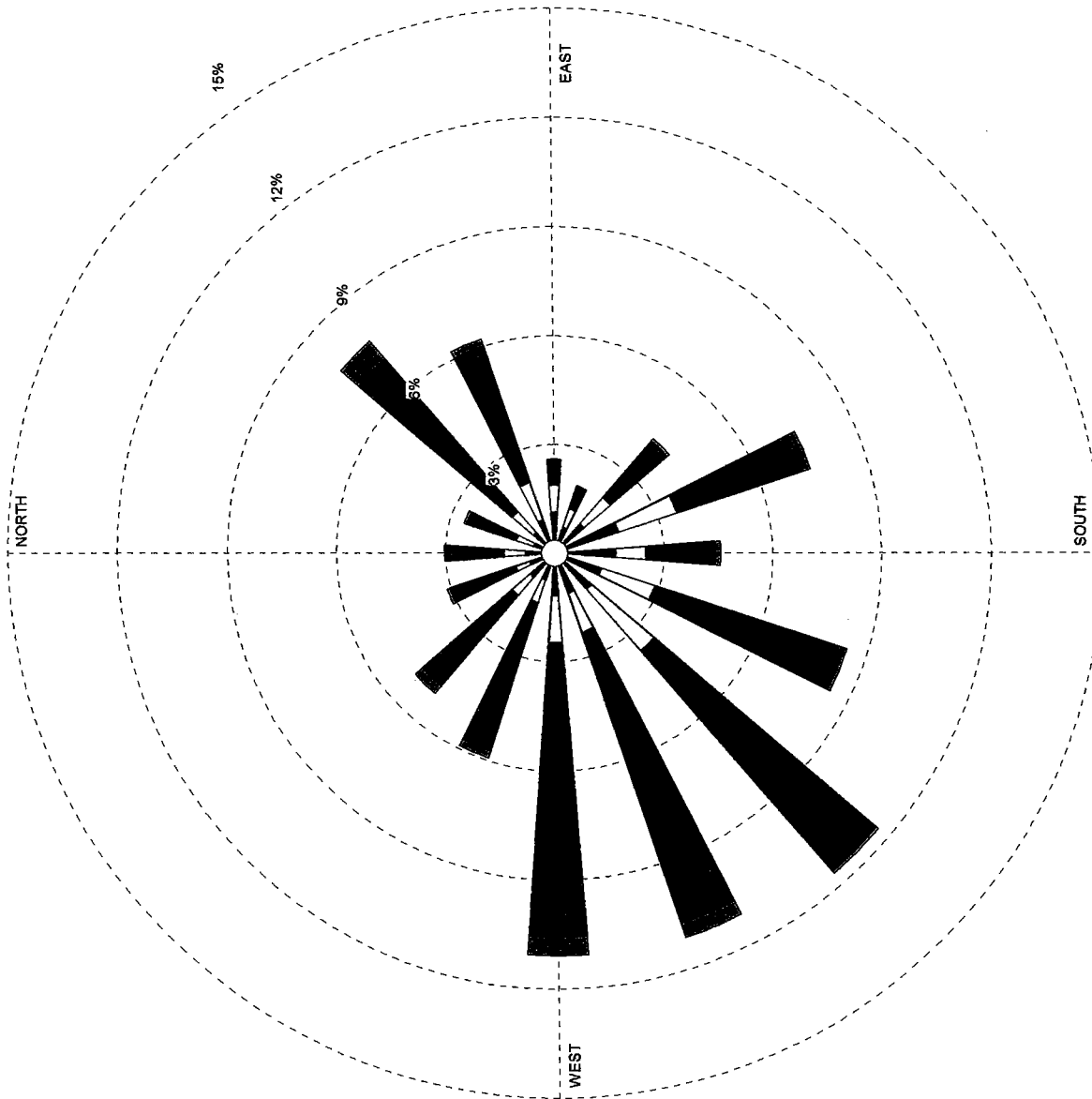
Les résultats indiquent que la concentration moyenne maximale horaire la plus élevée est enregistrée pour l'année 1999 au point (226320, 5364412) avec une valeur de $5,73 \mu\text{g}/\text{m}^3$ ce qui est égal à 95,5% de la future norme.

Le tableau 3-5 présente les concentrations maximales horaires enregistrées pour chaque année simulée, aux cinq résidences les plus rapprochées du site. La valeur la plus élevée est obtenue pour l'année 1996 à la résidence R2 avec une concentration de SRT dans l'air ambiant égale à $4,36 \mu\text{g}/\text{m}^3$ ce qui est équivalent à 72,7% de la future norme.

Le principal impact au niveau de la qualité de l'air, d'un agrandissement ou d'un aménagement d'un lieu d'enfouissement est relié à la détection d'odeurs. C'est pourquoi les composés de soufre réduits totaux sont retenus pour fin de vérification de la conformité au niveau de la qualité de l'air.

WIND ROSE PLOT

Rose des vents - Station de l'aéroport de Mont-Joli



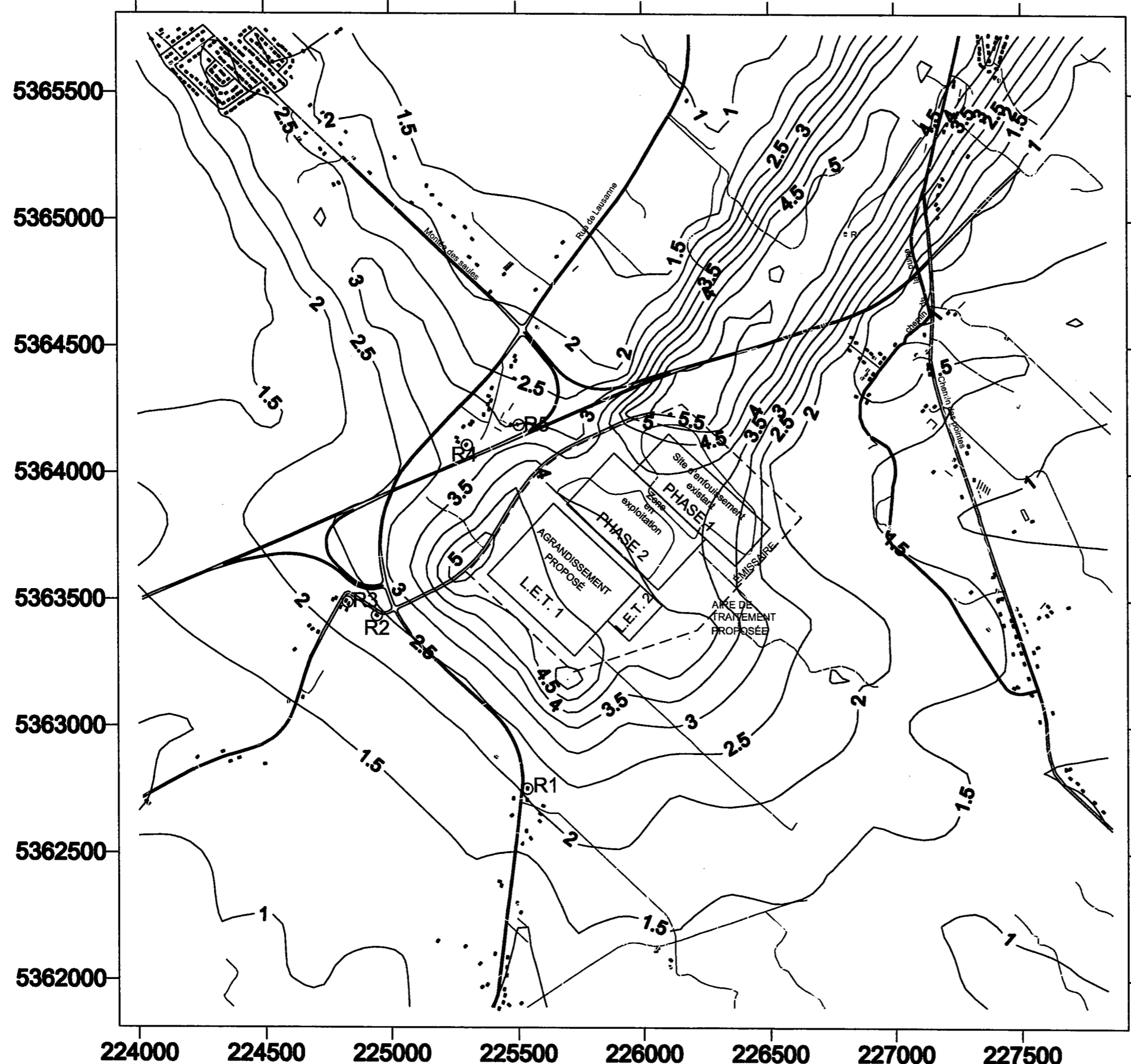
COMMENTAIRES
Rose des vents
Mont-Joli
Données horaires pour les
années 1996 à 2000 incluses

PLOT YEAR-DATE-TIME
1996 1997 1998 1999 2000
Janv. 1 - déc. 31
Midnight - 11 PM

ORIENTATION Direction (blowing from)	Wind Speed (m/s)
GRAPHIQUE Wind Speed	> 11.06
UNITÉ m/s	8.49 - 11.06
VENTS CALMES 3.27%	5.40 - 8.49
V MOY. DES VENTS 4.75 m/s	3.34 - 5.40
DATE 2002-06-07	1.80 - 3.34
PAR mb	0.51 - 1.80

COMPAGNIE
André Simard Associés

FIGURE
3-2



LÉGENDE

- 1.5 CONC. SRT (ug/m3)
- LIMITE DE PROPRIÉTÉ
- R1 RÉSIDENCE RAPPROCHÉE
- SOURCE

PRÉPARÉ POUR:

rimouski

PRÉPARÉ PAR:

André Simard et associés

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 Tél.: (418) 845-8885 Téléc.: (418) 845-5559

TITRE DU PROJET:

**L E T de Rimouski
 Étude d'impacts**

TITRE DU PLAN:

DISPERSION ATMOSPHÉRIQUE DES S.R.T.

PROFIL DE DISPERSION POUR L'ANNÉE 1999
 CONCENTRATIONS MOYENNES MAXIMALES
 HORAIRES DES SRT (ug/m3)

DESSIN: MB	ECHELLE: aucune	PROJET No: 01-755
VERIF. CV	DATE: 7 JUIN 2002	FIGURE No: 3-3

Tableau 3-5 : Résultats de la modélisation de la dispersion des SRT aux résidences les plus rapprochées

Année	Concentration moyenne maximale sur 1 heure ($\mu\text{g}/\text{m}^3$)	Date (an/mois/jour/heure)	Pourcentage par rapport à la norme ⁽¹⁾ ($\mu\text{g}/\text{m}^3$)
<i>Résidence R1</i>			
	<i>Route du Bel Air</i>	<i>x = 225503</i>	<i>y = 5362713</i>
1996	1,30	96/04/14/22	21,7
1997	1,94	97/05/23/21	32,3
1998	1,94	98/06/06/21	32,3
1999	1,93	99/11/19/21	32,2
2000	2,14	00/10/14/06	35,7
<i>Résidence R2</i>			
	<i>Chemin de Lausanne</i>	<i>x = 224887</i>	<i>y = 5363420</i>
1996	4,36	96/04/09/05	72,7
1997	2,25	97/05/08/21	37,5
1998	2,25	98/05/10/02	37,5
1999	2,24	99/06/08/24	37,3
2000	2,22	00/07/17/03	37,0
<i>Résidence R3</i>			
	<i>Chemin de Lausanne</i>	<i>x = 224770</i>	<i>y = 5363469</i>
1996	3,15	96/04/09/05	52,5
1997	2,16	97/07/27/04	36,0
1998	2,14	98/05/10/02	35,7
1999	2,16	99/04/27/24	36,0
2000	2,14	00/07/23/23	35,7
<i>Résidence R4</i>			
	<i>Nord de l'autoroute</i>	<i>x = 225257</i>	<i>y = 5364124</i>
1996	2,83	96/04/08/22	47,2
1997	2,81	97/01/03/19	46,8
1998	2,81	98/02/09/04	46,8
1999	3,24	99/11/24/07	54,0
2000	2,81	00/05/10/01	46,8
<i>Résidence R5</i>			
	<i>Nord de l'autoroute</i>	<i>x = 225468</i>	<i>y = 5364207</i>
1996	2,79	96/01/10/19	46,5
1997	3,08	97/11/23/07	51,3
1998	2,79	98/09/15/01	46,5
1999	2,79	99/05/30/24	46,5
2000	2,79	00/05/30/02	46,5

(1) Future norme de $6 \mu\text{g}/\text{m}^3$ proposée dans le projet de modification du Règlement sur la qualité de l'atmosphère

En considérant que la concentration de départ des SRT dans le biogaz est de 74,1 mg/m³ (voir section 3.1.1), la valeur maximale de 5,73 µg/m³ enregistrée dans l'air ambiant représente un facteur de dilution de plus de 12 900 fois par rapport au biogaz pur.

Le tableau 3-6 présente les composés organiques volatils inclus dans la liste des critères de qualité de l'air du MENV et qui sont typiquement présents dans le biogaz, leur concentration moyenne dans le biogaz telle que répertoriée dans le document AP-42 de l'EPA (voir référence 1), leur concentration probable dans l'air ambiant en appliquant le facteur de dilution obtenu pour les SRT ainsi que les concentrations acceptables définies dans la liste des critères de qualité de l'air du MENV (voir annexe IV).

Les résultats indiquent que les concentrations probables de ces composés dans l'air ambiant sont de plusieurs ordres de grandeur inférieures aux critères fixés par le MENV.

Tableau 3-6 : Concentrations probables des COV dans l'air ambiant

Composés	Concentration AP-42 ppmv	Masse molaire g/mol	Concentration AP-42 mg/m ³	Conc. probable air ambiant 1 heure mg/m ³	Conc. probable air ambiant 15 min ⁽¹⁾ mg/m ³	Critère MENV 15 min mg/m ³	Conc. probable air ambiant 24 h ⁽¹⁾ mg/m ³	Critère MENV 24 heures mg/m ³	Conc. probable air ambiant an ⁽¹⁾ mg/m ³	Critère MENV An mg/m ³
Acétone	7,01	58,08	16,65	1,29E-03					2,10E-04	180
Acrylonitrile	6,33	53,06	13,74	1,06E-03					1,73E-04	0,01
Benzène	78,11	1,91	6,10	4,73E-04			2,51E-04	10	7,70E-05	0,01
Disulfure de carbone	0,58	76,13	1,81	1,40E-04		50			2,28E-05	700
Chlorobenzène	0,25	112,56	1,15	8,92E-05					1,45E-05	28
Chloroforme	0,03	119,39	0,15	1,14E-05					1,85E-06	0,04
Chlorométhane	1,21	50,49	2,50	1,94E-04					3,15E-05	825
o-Dichlorobenzène	0,21	147	1,26	9,79E-05		4200			1,59E-05	160
p-Dichlorobenzène	0,21	147	1,26	9,79E-05		730			1,59E-05	400
1,2-Dichloroéthane	0,41	98,96	1,66	1,29E-04					2,09E-05	0,04
1,1-Dichloroéthane	2,35	98,97	9,51	7,37E-04					1,20E-04	120
1,2-Dichloroéthylène	2,84	96,94	11,26	8,73E-04					1,42E-04	80
Dichlorométhane	14,3	84,94	49,68	3,85E-03					6,27E-04	2
1,2-Dichloropropane	0,18	112,99	0,83	6,45E-05					1,05E-05	4
Éthylbenzène	4,61	106,16	20,02	1,55E-03					2,53E-04	1000
n-Hexane	6,57	86,18	23,16	1,80E-03					2,92E-04	200
Mercure	2,92E-04	200,61	2,40E-03	1,86E-07					3,02E-08	0,15
Méthanthiol	2,49	48,11	4,90	3,80E-04					6,18E-05	35
Méthyléthylcétone	7,09	72,11	20,91	1,62E-03		1,4			2,64E-04	820
Tétrachloroéthylène	3,73	165,83	25,30	1,90E-03		5800			3,19E-04	20
Toluène	39,3	92,13	148,09	1,15E-02					1,87E-03	400
Trichloroéthylène	2,82	131,4	15,16	1,17E-03					1,91E-04	2,3
Chlorure de vinyle	7,34	62,5	18,76	1,45E-03					2,37E-04	0,2
Xylène (o-, m-, p-)	12,1	106,16	52,54	4,07E-03		345			6,63E-04	470

(1) Concentrations calculées à partir des concentrations horaires selon la formule suivante:

$$C_1/C_2 = (T_2/T_1)^{0,2} \text{ ou}$$

C₁ = concentration sur l'intervalle de temps 1

C₂ = concentration sur l'intervalle de temps 2

T₁ = intervalle de temps 1

T₂ = intervalle de temps 2

PARTIE 4 – Validation des modèles

4. VALIDATION DES MODÈLES

Le programme de suivi environnemental proposé pour le LET Rimouski inclura les activités suivantes afin de vérifier la validité des hypothèses utilisées dans le cadre de la présente étude:

- Premièrement, les débits réels de biogaz capté et brûlé seront enregistrés sur une base continue à la station de pompage à l'aide d'un débitmètre thermique massique muni d'un totalisateur;
- Le modèle de génération sera ensuite calibré en fonction des débits réels captés et de l'efficacité de captage du réseau déterminée en fonction de la configuration de celui-ci par rapport aux surfaces d'enfouissement. Cette activité permettra de valider les niveaux estimés d'émission de biogaz à l'atmosphère;
- Par ailleurs, une vérification qualitative des émissions de biogaz à l'atmosphère sera réalisée par un échantillonnage des émissions de méthane à la surface du LES et du LET à l'aide d'un FID. Cette activité sera réalisée après la mise en place du réseau de captage du biogaz afin de vérifier sa performance et d'y apporter des correctifs, s'il y a lieu, dans le but de minimiser les émissions à l'atmosphère;
- Les concentrations réelles de SRT et de composés organiques volatils listés au tableau 3.5 seront déterminées en laboratoire. Pour ce faire, des échantillons de biogaz seront prélevés à la station de pompage dans des canettes passivées et analysés en laboratoire selon la méthode TO-14 de l'EPA.

PARTIE 5 – Conclusions

5. CONCLUSIONS

Les résultats de la modélisation de la génération du biogaz indiquent que pour la totalité du site (phase 1, phase 2 et nouveau LET) et selon le scénario d'enfouissement retenu, la génération maximale de biogaz se produira en 2061, soit lors de la fermeture du site, avec un débit de 13,36 Mm³/an.

Selon le calendrier d'exploitation du lieu d'enfouissement et de mise en place du réseau de captage, le niveau maximal global d'émissions de biogaz à l'atmosphère est toutefois obtenu en 2052 avec un débit de 6,34 Mm³/an.

Les résultats de la modélisation de la dispersion atmosphérique indiquent que les concentrations de SRT dans l'air ambiant résultant de l'enfouissement et de la décomposition des déchets au site de Rimouski, ne dépassent en aucun temps la concentration permise par le projet de modification du Règlement sur la qualité de l'atmosphère. Les critères de qualité de l'air ambiant du Ministère de l'Environnement sont également respectés en tout temps.

La concentration maximale horaire de SRT la plus élevée (5,73 µg/m³) est obtenue au point (226320, 5364412), ce qui est équivalent à 95,5% de la future norme de 6 µg/m³. Par ailleurs, les résultats obtenus aux résidences les plus rapprochées du site indiquent que la valeur la plus élevée est obtenue à la résidence R2 (Chemin de Lausanne) avec une concentration de SRT dans l'air ambiant égale à 4,36 µg/m³ ce qui est équivalent à 72,7% de la future norme.

ANNEXE I – Fichiers d'entrée – Modèle ISC3(ST)

1 ISCAST3 - (DATED 95250)

IBM-PC VERSION (3.00) ISCAST3R
(C) COPYRIGHT 1992-1996, TRINITY CONSULTANTS, INC.

Run Began on 6/05/2002 at 11:28:17

** BREEZE AIR ISCAST3 - C:\MARC\PROJETS\RIMOUSKI\RIMO1996.DAT

** Trinity Consultants Incorporated, Dallas, TX

CO STARTING
CO TITLEONE Site de Rimouski
CO TITLETWO Dispersion des SRT - Année météo 1996
CO MODELOPT DFAULT CONC RURAL
CO AVERTIME 1
CO POLLUTID OTHER
CO TERRHGTS ELEV
CO FLAGPOLE 1.5
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION LET1 AREA 225358.9 5363574.5 99.0
SO LOCATION LET2 AREA 225855.1 5363389.0 99.0
SO LOCATION PHASE2 AREA 225670.5 5363881.5 90.0
SO LOCATION PHASE1 AREA 225948.9 5364017.0 85.0
SO SRCPARAM LET1 6.55670000E-08 0.00 490.00 401.00 43.0 0.00
SO SRCPARAM LET2 6.55670000E-08 0.00 123.10 200.00 43.0 0.00
SO SRCPARAM PHASE2 1.73820000E-09 0.00 515.00 288.00 43.0 0.00
SO SRCPARAM PHASE1 9.32420000E-10 0.00 567.00 211.00 43.0 0.00
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
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RE DISCCART	226920.0	5364212.0	49.7	0.0
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RE DISCCART	227320.0	5364212.0	85.6	0.0
RE DISCCART	227520.0	5364212.0	100.0	0.0
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RE DISCCART	227920.0	5364212.0	100.0	0.0
RE DISCCART	223920.0	5364412.0	90.8	0.0
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RE DISCCART	224520.0	5364412.0	99.3	0.0
RE DISCCART	224720.0	5364412.0	98.8	0.0
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RE DISCCART	225520.0	5364412.0	91.9	0.0
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RE DISCCART	226120.0	5364412.0	53.8	0.0
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RE DISCCART	227320.0	5364412.0	84.8	0.0
RE DISCCART	227520.0	5364412.0	100.0	0.0
RE DISCCART	227720.0	5364412.0	97.1	0.0
RE DISCCART	227920.0	5364412.0	93.2	0.0
RE DISCCART	223920.0	5364612.0	93.1	0.0
RE DISCCART	224120.0	5364612.0	94.9	0.0
RE DISCCART	224320.0	5364612.0	98.4	0.0
RE DISCCART	224520.0	5364612.0	99.2	0.0
RE DISCCART	224720.0	5364612.0	97.7	0.0
RE DISCCART	224920.0	5364612.0	96.3	0.0
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RE DISCCART	225520.0	5364612.0	92.4	0.0
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** RCPDESCR R1 (ROUTE DU BEL AIR)
RE DISCCART 224887.0 5363420.0 90.0 0.0
** RCPDESCR R2 (CHEMIN DE LAUSANNE)
RE DISCCART 224770.0 5363469.0 93.0 0.0
** RCPDESCR R3 (CHEMIN DE LAUSANNE)
RE DISCCART 225257.0 5364124.0 96.0 0.0
** RCPDESCR R4 (NORD DE L'AUTOROUTE J.L.)
RE DISCCART 225468.0 5364207.0 88.0 0.0
** RCPDESCR R5 (NORD DE L'AUTOROUTE J.L.)
** BOUNDARY
RE DISCCART 225252.0 5363603.0 87.0 0.0
RE DISCCART 225695.0 5363192.0 103.0 0.0
RE DISCCART 226208.0 5363365.0 105.0 0.0
RE DISCCART 226364.0 5363533.0 103.0 0.0
RE DISCCART 226639.0 5363829.0 83.0 0.0
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RE DISCCART 225579.0 5364037.0 83.0 0.0
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RE DISCCART 225278.0 5363624.0 88.0 0.0
RE DISCCART 225252.0 5363603.0 87.0 0.0
RE FINISHED

ME STARTING

ME INPUTFIL C:\MARC\PROJETS\RIMOUSKI\METEO\1996.TXT

ME ANEMHGT 10.0 METERS

ME SURFDATA 25000 1996

ME UAIRDATA 23118 1996

ME STARTEND 96 01 01 1 96 12 31 24

ME FINISHED

OU STARTING

OU RECTABLE 1 FIRST

OU MAXTABLE 1 50

OU PLOTFILE 1 ALL FIRST C:\MARC\PROJETS\RIMOUSKI\2000RIMO

1 IS CST3 - (DATED 95250)

IBM-PC VERSION (3.00) IS CST3R
(C) COPYRIGHT 1992-1996, TRINITY CONSULTANTS, INC.

Run Began on 6/05/2002 at 11:59:44

** BREEZE AIR IS CST3 - C:\MARC\PROJETS\RIMOUSKI\RIMO1997.DAT
** Trinity Consultants Incorporated, Dallas, TX

CO STARTING
CO TITLEONE Site de Rimouski
CO TITLETWO Dispersion des SRT - Année météo 1997
CO MODELOPT DFAULT CONC RURAL
CO AVERTIME 1
CO POLLUTID OTHER
CO TERRHGTS ELEV
CO FLAGPOLE 1.5
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION LET1 AREA 225358.9 5363574.5 99.0
SO LOCATION LET2 AREA 225855.1 5363389.0 99.0
SO LOCATION PHASE2 AREA 225670.5 5363881.5 90.0
SO LOCATION PHASE1 AREA 225948.9 5364017.0 85.0
SO SRCPARAM LET1 6.55670000E-08 0.00 490.00 401.00 43.0 0.00
SO SRCPARAM LET2 6.55670000E-08 0.00 123.10 200.00 43.0 0.00
SO SRCPARAM PHASE2 1.73820000E-09 0.00 515.00 288.00 43.0 0.00
SO SRCPARAM PHASE1 9.32420000E-10 0.00 567.00 211.00 43.0 0.00
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
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RE DISCCART 224120.0 5361812.0 171.6 0.0
RE DISCCART 224320.0 5361812.0 175.3 0.0
RE DISCCART 224520.0 5361812.0 177.9 0.0
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RE DISCCART 227120.0 5361812.0 72.7 0.0
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RE DISCCART 227520.0 5361812.0 57.0 0.0

RE DISCCART	227720.0	5361812.0	103.5	0.0
RE DISCCART	227920.0	5361812.0	117.1	0.0
RE DISCCART	223920.0	5362012.0	158.5	0.0
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RE DISCCART	224520.0	5362012.0	170.0	0.0
RE DISCCART	224720.0	5362012.0	180.0	0.0
RE DISCCART	224920.0	5362012.0	176.0	0.0
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RE DISCCART	225320.0	5362012.0	177.2	0.0
RE DISCCART	225520.0	5362012.0	175.1	0.0
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RE DISCCART	226520.0	5362012.0	110.2	0.0
RE DISCCART	226720.0	5362012.0	120.0	0.0
RE DISCCART	226920.0	5362012.0	117.9	0.0
RE DISCCART	227120.0	5362012.0	97.2	0.0
RE DISCCART	227320.0	5362012.0	42.3	0.0
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RE DISCCART	227720.0	5362012.0	85.9	0.0
RE DISCCART	227920.0	5362012.0	101.4	0.0
RE DISCCART	223920.0	5362212.0	150.9	0.0
RE DISCCART	224120.0	5362212.0	152.4	0.0
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RE DISCCART	224520.0	5362212.0	168.3	0.0
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RE DISCCART	225520.0	5362212.0	168.5	0.0
RE DISCCART	225720.0	5362212.0	165.2	0.0
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RE DISCCART	225320.0	5362412.0	160.3	0.0
RE DISCCART	225520.0	5362412.0	160.0	0.0
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RE DISCCART	223920.0	5362612.0	109.5	0.0
RE DISCCART	224120.0	5362612.0	134.4	0.0
RE DISCCART	224320.0	5362612.0	139.6	0.0
RE DISCCART	224520.0	5362612.0	145.6	0.0
RE DISCCART	224720.0	5362612.0	150.1	0.0
RE DISCCART	224920.0	5362612.0	149.4	0.0
RE DISCCART	225120.0	5362612.0	155.1	0.0
RE DISCCART	225320.0	5362612.0	151.3	0.0
RE DISCCART	225520.0	5362612.0	154.5	0.0
RE DISCCART	225720.0	5362612.0	151.4	0.0
RE DISCCART	225920.0	5362612.0	150.5	0.0
RE DISCCART	226120.0	5362612.0	150.0	0.0
RE DISCCART	226320.0	5362612.0	134.5	0.0
RE DISCCART	226520.0	5362612.0	98.9	0.0
RE DISCCART	226720.0	5362612.0	98.5	0.0
RE DISCCART	226920.0	5362612.0	103.7	0.0
RE DISCCART	227120.0	5362612.0	45.5	0.0
RE DISCCART	227320.0	5362612.0	58.2	0.0
RE DISCCART	227520.0	5362612.0	90.4	0.0
RE DISCCART	227720.0	5362612.0	100.1	0.0
RE DISCCART	227920.0	5362612.0	101.8	0.0
RE DISCCART	223920.0	5362812.0	100.0	0.0
RE DISCCART	224120.0	5362812.0	105.2	0.0
RE DISCCART	224320.0	5362812.0	118.5	0.0
RE DISCCART	224520.0	5362812.0	123.7	0.0
RE DISCCART	224720.0	5362812.0	131.0	0.0
RE DISCCART	224920.0	5362812.0	135.0	0.0
RE DISCCART	225120.0	5362812.0	135.7	0.0
RE DISCCART	225320.0	5362812.0	134.9	0.0
RE DISCCART	225520.0	5362812.0	134.9	0.0
RE DISCCART	225720.0	5362812.0	136.0	0.0
RE DISCCART	225920.0	5362812.0	136.4	0.0
RE DISCCART	226120.0	5362812.0	138.4	0.0
RE DISCCART	226320.0	5362812.0	128.5	0.0
RE DISCCART	226520.0	5362812.0	94.8	0.0
RE DISCCART	226720.0	5362812.0	83.1	0.0
RE DISCCART	226920.0	5362812.0	94.7	0.0
RE DISCCART	227120.0	5362812.0	30.0	0.0
RE DISCCART	227320.0	5362812.0	45.3	0.0
RE DISCCART	227520.0	5362812.0	79.0	0.0
RE DISCCART	227720.0	5362812.0	100.0	0.0
RE DISCCART	227920.0	5362812.0	93.9	0.0
RE DISCCART	223920.0	5363012.0	99.6	0.0
RE DISCCART	224120.0	5363012.0	99.5	0.0
RE DISCCART	224320.0	5363012.0	103.2	0.0
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RE DISCCART 225120.0 5364812.0 93.7 0.0

RE DISCCART	225320.0	5364812.0	92.2	0.0
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** RCPDESCR R1 (ROUTE DU BEL AIR)
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** RCPDESCR R2 (CHEMIN DE LAUSANNE)
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** RCPDESCR R3 (CHEMIN DE LAUSANNE)
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** RCPDESCR R4 (NORD DE L'AUTOROUTE J.L.)
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** RCPDESCR R5 (NORD DE L'AUTOROUTE J.L.)
** BOUNDARY
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RE FINISHED

ME STARTING

ME INPUTFIL C:\MARC\PROJETS\RIMOUSKI\METEO\1997.TXT

ME ANEMHGHGT 10.0 METERS

ME SURFDATA 25000 1997

ME UAIRDATA 23118 1997

ME STARTEND 97 01 01 1 97 12 31 24

ME FINISHED

OU STARTING

OU RECTABLE 1 FIRST

OU MAXTABLE 1 50

OU PLOTFILE 1 ALL FIRST C:\MARC\PROJETS\RIMOUSKI\2000RIMO

1 IS CST3 - (DATED 95250)

IBM-PC VERSION (3.00) IS CST3R
(C) COPYRIGHT 1992-1996, TRINITY CONSULTANTS, INC.

Run Began on 6/05/2002 at 12:47:29

** BREEZE AIR IS CST3 - C:\MARC\PROJETS\RIMOUSKI\RIMO1998.DAT
** Trinity Consultants Incorporated, Dallas, TX

CO STARTING
CO TITLEONE Site de Rimouski
CO TITLETWO Dispersion des SRT - Année météo 1998
CO MODELOPT DFAULT CONC RURAL
CO AVERTIME 1
CO POLLUTID OTHER
CO TERRHGTS ELEV
CO FLAGPOLE 1.5
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION LET1 AREA 225358.9 5363574.5 99.0
SO LOCATION LET2 AREA 225855.1 5363389.0 99.0
SO LOCATION PHASE2 AREA 225670.5 5363881.5 90.0
SO LOCATION PHASE1 AREA 225948.9 5364017.0 85.0
SO SRCPARAM LET1 6.55670000E-08 0.00 490.00 401.00 43.0 0.00
SO SRCPARAM LET2 6.55670000E-08 0.00 123.10 200.00 43.0 0.00
SO SRCPARAM PHASE2 1.73820000E-09 0.00 515.00 288.00 43.0 0.00
SO SRCPARAM PHASE1 9.32420000E-10 0.00 567.00 211.00 43.0 0.00
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
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RE DISCCART 224320.0 5361812.0 175.3 0.0
RE DISCCART 224520.0 5361812.0 177.9 0.0
RE DISCCART 224720.0 5361812.0 183.9 0.0
RE DISCCART 224920.0 5361812.0 187.3 0.0
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RE DISCCART 225320.0 5361812.0 189.4 0.0
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RE DISCCART 227920.0 5361812.0 117.1 0.0
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RE DISCCART 225920.0 5362412.0 158.3 0.0
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RE DISCCART	227920.0	5362412.0	104.4	0.0
RE DISCCART	223920.0	5362612.0	109.5	0.0
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RE DISCCART	224920.0	5362612.0	149.4	0.0
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RE DISCCART	225720.0	5362612.0	151.4	0.0
RE DISCCART	225920.0	5362612.0	150.5	0.0
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RE DISCCART	226320.0	5362612.0	134.5	0.0
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RE DISCCART	226720.0	5362612.0	98.5	0.0
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RE DISCCART	227720.0	5362612.0	100.1	0.0
RE DISCCART	227920.0	5362612.0	101.8	0.0
RE DISCCART	223920.0	5362812.0	100.0	0.0
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RE DISCCART	224320.0	5362812.0	118.5	0.0
RE DISCCART	224520.0	5362812.0	123.7	0.0
RE DISCCART	224720.0	5362812.0	131.0	0.0
RE DISCCART	224920.0	5362812.0	135.0	0.0
RE DISCCART	225120.0	5362812.0	135.7	0.0
RE DISCCART	225320.0	5362812.0	134.9	0.0
RE DISCCART	225520.0	5362812.0	134.9	0.0
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RE DISCCART	225920.0	5362812.0	136.4	0.0
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RE DISCCART	226320.0	5362812.0	128.5	0.0
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RE DISCCART	226720.0	5362812.0	83.1	0.0
RE DISCCART	226920.0	5362812.0	94.7	0.0
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RE DISCCART	226720.0	5363012.0	73.9	0.0
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RE DISCCART	227320.0	5363012.0	70.0	0.0
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RE DISCCART	224320.0	5363212.0	98.9	0.0
RE DISCCART	224520.0	5363212.0	99.8	0.0
RE DISCCART	224720.0	5363212.0	101.8	0.0
RE DISCCART	224920.0	5363212.0	95.6	0.0
RE DISCCART	225120.0	5363212.0	94.0	0.0
RE DISCCART	225320.0	5363212.0	95.8	0.0
RE DISCCART	225520.0	5363212.0	101.1	0.0
RE DISCCART	225920.0	5363212.0	109.1	0.0
RE DISCCART	226120.0	5363212.0	114.6	0.0
RE DISCCART	226320.0	5363212.0	109.7	0.0
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RE DISCCART	224320.0	5363412.0	97.7	0.0
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** RCPDESCR R1 (ROUTE DU BEL AIR)
RE DISCCART 224887.0 5363420.0 90.0 0.0
** RCPDESCR R2 (CHEMIN DE LAUSANNE)
RE DISCCART 224770.0 5363469.0 93.0 0.0
** RCPDESCR R3 (CHEMIN DE LAUSANNE)
RE DISCCART 225257.0 5364124.0 96.0 0.0
** RCPDESCR R4 (NORD DE L'AUTOROUTE J.L.)
RE DISCCART 225468.0 5364207.0 88.0 0.0
** RCPDESCR R5 (NORD DE L'AUTOROUTE J.L.)
** BOUNDARY
RE DISCCART 225252.0 5363603.0 87.0 0.0
RE DISCCART 225695.0 5363192.0 103.0 0.0
RE DISCCART 226208.0 5363365.0 105.0 0.0
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RE DISCCART 226639.0 5363829.0 83.0 0.0
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RE DISCCART 225252.0 5363603.0 87.0 0.0
RE FINISHED

ME STARTING

ME INPUTFIL C:\MARC\PROJETS\RIMOUSKI\METEO\1998.TXT

ME ANEMHGT 10.0 METERS

ME SURFDATA 25000 1998

ME UAIRDATA 23118 1998

ME STARTEND 98 01 01 1 98 12 31 24

ME FINISHED

OU STARTING

OU RECTABLE 1 FIRST

OU MAXTABLE 1 50

OU PLOTFILE 1 ALL FIRST C:\MARC\PROJETS\RIMOUSKI\2000RIMO

1 IS CST3 - (DATED 95250)

IBM-PC VERSION (3.00) IS CST3R
(C) COPYRIGHT 1992-1996, TRINITY CONSULTANTS, INC.

Run Began on 6/05/2002 at 11:00:27

** BREEZE AIR IS CST3 - C:\MARC\PROJETS\RIMOUSKI\RECEPT.DAT
** Trinity Consultants Incorporated, Dallas, TX

CO STARTING
CO TITLEONE Site de Rimouski
CO TITLETWO Dispersion des SRT - Année météo 1999
CO MODELOPT DFAULT CONC RURAL
CO AVERTIME 1
CO POLLUTID OTHER
CO TERRHGTS ELEV
CO FLAGPOLE 1.5
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION LET1 AREA 225358.9 5363574.5 99.0
SO LOCATION LET2 AREA 225855.1 5363389.0 99.0
SO LOCATION PHASE2 AREA 225670.5 5363881.5 90.0
SO LOCATION PHASE1 AREA 225948.9 5364017.0 85.0
SO SRCPARAM LET1 6.55670000E-08 0.00 490.00 401.00 43.0 0.00
SO SRCPARAM LET2 6.55670000E-08 0.00 123.10 200.00 43.0 0.00
SO SRCPARAM PHASE2 1.73820000E-09 0.00 515.00 288.00 43.0 0.00
SO SRCPARAM PHASE1 9.32420000E-10 0.00 567.00 211.00 43.0 0.00
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
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RE DISCCART 224320.0 5361812.0 175.3 0.0
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RE DISCCART 225320.0 5361812.0 189.4 0.0
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RE DISCCART	226520.0	5362612.0	98.9	0.0
RE DISCCART	226720.0	5362612.0	98.5	0.0
RE DISCCART	226920.0	5362612.0	103.7	0.0
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RE DISCCART	224720.0	5362812.0	131.0	0.0
RE DISCCART	224920.0	5362812.0	135.0	0.0
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RE DISCCART	225320.0	5362812.0	134.9	0.0
RE DISCCART	225520.0	5362812.0	134.9	0.0
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RE DISCCART	225920.0	5362812.0	136.4	0.0
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RE DISCCART	227320.0	5365412.0	26.7	0.0
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RE DISCCART	227720.0	5365412.0	59.9	0.0
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RE DISCCART	224920.0	5365612.0	69.8	0.0
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RE DISCCART 225503.0 5362713.0 145.0 0.0
** RCPDESCR R1 (ROUTE DU BEL AIR)
RE DISCCART 224887.0 5363420.0 90.0 0.0
** RCPDESCR R2 (CHEMIN DE LAUSANNE)
RE DISCCART 224770.0 5363469.0 93.0 0.0
** RCPDESCR R3 (CHEMIN DE LAUSANNE)
RE DISCCART 225257.0 5364124.0 96.0 0.0
** RCPDESCR R4 (NORD DE L'AUTOROUTE J.L.)
RE DISCCART 225468.0 5364207.0 88.0 0.0
** RCPDESCR R5 (NORD DE L'AUTOROUTE J.L.)
** BOUNDARY
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RE DISCCART 226208.0 5363365.0 105.0 0.0
RE DISCCART 226364.0 5363533.0 103.0 0.0
RE DISCCART 226639.0 5363829.0 83.0 0.0
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RE DISCCART 225579.0 5364037.0 83.0 0.0
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RE FINISHED

ME STARTING
ME INPUTFIL C:\MARC\PROJETS\RIMOUSKI\METEO\1999.TXT
ME ANEMHGT 10.0 METERS
ME SURFDATA 25000 1999
ME UAIRDATA 23118 1999
ME STARTEND 99 01 01 1 99 12 31 24
ME FINISHED

OU STARTING
OU RECTABLE 1 FIRST
OU MAXTABLE 1 50
OU PLOTFILE 1 ALL FIRST C:\MARC\PROJETS\RIMOUSKI\2000RIMO

1 ISCSST3 - (DATED 95250)

IBM-PC VERSION (3.00) ISCSST3R
(C) COPYRIGHT 1992-1996, TRINITY CONSULTANTS, INC.

Run Began on 6/05/2002 at 11:15:00

** BREEZE AIR ISCSST3 - C:\MARC\PROJETS\RIMOUSKI\RIMO2000.DAT
** Trinity Consultants Incorporated, Dallas, TX

CO STARTING
CO TITLEONE Site de Rimouski
CO TITLETWO Dispersion des SRT - Année météo 2000
CO MODELOPT DFAULT CONC RURAL
CO AVERTIME 1
CO POLLUTID OTHER
CO TERRHGTS ELEV
CO FLAGPOLE 1.5
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION LET1 AREA 225358.9 5363574.5 99.0
SO LOCATION LET2 AREA 225855.1 5363389.0 99.0
SO LOCATION PHASE2 AREA 225670.5 5363881.5 90.0
SO LOCATION PHASE1 AREA 225948.9 5364017.0 85.0
SO SRCPARAM LET1 6.55670000E-08 0.00 490.00 401.00 43.0 0.00
SO SRCPARAM LET2 6.55670000E-08 0.00 123.10 200.00 43.0 0.00
SO SRCPARAM PHASE2 1.73820000E-09 0.00 515.00 288.00 43.0 0.00
SO SRCPARAM PHASE1 9.32420000E-10 0.00 567.00 211.00 43.0 0.00
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
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RE DISCCART 224320.0 5361812.0 175.3 0.0
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RE DISCCART 225320.0 5361812.0 189.4 0.0
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RE DISCCART 225920.0 5361812.0 154.9 0.0
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RE DISCCART 227120.0 5361812.0 72.7 0.0
RE DISCCART 227320.0 5361812.0 35.5 0.0
RE DISCCART 227520.0 5361812.0 57.0 0.0

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RE DISCCART	227920.0	5361812.0	117.1	0.0
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RE DISCCART	224920.0	5362012.0	176.0	0.0
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RE DISCCART	225320.0	5362012.0	177.2	0.0
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RE DISCCART	226720.0	5362012.0	120.0	0.0
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RE DISCCART	223920.0	5362412.0	150.0	0.0
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RE DISCCART 227720.0 5362612.0 100.1 0.0
RE DISCCART 227920.0 5362612.0 101.8 0.0
RE DISCCART 223920.0 5362812.0 100.0 0.0
RE DISCCART 224120.0 5362812.0 105.2 0.0
RE DISCCART 224320.0 5362812.0 118.5 0.0
RE DISCCART 224520.0 5362812.0 123.7 0.0
RE DISCCART 224720.0 5362812.0 131.0 0.0
RE DISCCART 224920.0 5362812.0 135.0 0.0
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RE DISCCART 225320.0 5362812.0 134.9 0.0
RE DISCCART 225520.0 5362812.0 134.9 0.0
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RE DISCCART 225920.0 5362812.0 136.4 0.0
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RE DISCCART 226520.0 5362812.0 94.8 0.0
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RE DISCCART 226920.0 5362812.0 94.7 0.0
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RE DISCCART 224120.0 5363012.0 99.5 0.0
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RE DISCCART 224520.0 5363012.0 109.5 0.0
RE DISCCART 224720.0 5363012.0 113.9 0.0

RE DISCCART 224920.0 5363012.0 110.1 0.0
RE DISCCART 225120.0 5363012.0 110.0 0.0
RE DISCCART 225320.0 5363012.0 113.9 0.0
RE DISCCART 225520.0 5363012.0 114.6 0.0
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RE DISCCART 224120.0 5363212.0 98.3 0.0
RE DISCCART 224320.0 5363212.0 98.9 0.0
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RE DISCCART 224720.0 5363212.0 101.8 0.0
RE DISCCART 224920.0 5363212.0 95.6 0.0
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RE DISCCART 225320.0 5363212.0 95.8 0.0
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RE DISCCART 225920.0 5363212.0 109.1 0.0
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RE DISCCART 225320.0 5364412.0 97.5 0.0
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RE DISCCART 224920.0 5365412.0 96.4 0.0
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RE DISCCART 227920.0 5365812.0 75.0 0.0
RE DISCCART 225503.0 5362713.0 145.0 0.0
** RCPDESCR R1 (ROUTE DU BEL AIR)
RE DISCCART 224887.0 5363420.0 90.0 0.0
** RCPDESCR R2 (CHEMIN DE LAUSANNE)
RE DISCCART 224770.0 5363469.0 93.0 0.0
** RCPDESCR R3 (CHEMIN DE LAUSANNE)
RE DISCCART 225257.0 5364124.0 96.0 0.0
** RCPDESCR R4 (NORD DE L'AUTOROUTE J.L.)
RE DISCCART 225468.0 5364207.0 88.0 0.0
** RCPDESCR R5 (NORD DE L'AUTOROUTE J.L.)
** BOUNDARY
RE DISCCART 225252.0 5363603.0 87.0 0.0
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RE DISCCART 226208.0 5363365.0 105.0 0.0
RE DISCCART 226364.0 5363533.0 103.0 0.0
RE DISCCART 226639.0 5363829.0 83.0 0.0
RE DISCCART 226539.0 5363924.0 81.0 0.0
RE DISCCART 226369.0 5364086.0 81.0 0.0
RE DISCCART 226246.0 5364203.0 80.0 0.0
RE DISCCART 226148.0 5364294.0 77.0 0.0
RE DISCCART 226060.0 5364257.0 75.0 0.0
RE DISCCART 225988.0 5364243.0 73.0 0.0
RE DISCCART 225939.0 5364228.0 73.0 0.0
RE DISCCART 225848.0 5364189.0 81.0 0.0
RE DISCCART 225748.0 5364140.0 82.0 0.0
RE DISCCART 225660.0 5364096.0 82.0 0.0
RE DISCCART 225579.0 5364037.0 83.0 0.0
RE DISCCART 225528.0 5363987.0 83.0 0.0
RE DISCCART 225484.0 5363930.0 84.0 0.0
RE DISCCART 225452.0 5363880.0 80.0 0.0
RE DISCCART 225401.0 5363792.0 84.0 0.0
RE DISCCART 225357.0 5363722.0 85.0 0.0
RE DISCCART 225317.0 5363668.0 88.0 0.0
RE DISCCART 225278.0 5363624.0 88.0 0.0
RE DISCCART 225252.0 5363603.0 87.0 0.0
RE FINISHED

ME STARTING
ME INPUTFIL C:\MARC\PROJETS\RIMOUSKI\METEO\2000.TXT
ME ANEMHGT 10.0 METERS
ME SURFDATA 25000 2000
ME UAIRDATA 23118 2000
ME DAYRANGE 1-70 72-365
ME FINISHED

OU STARTING
OU RECTABLE 1 FIRST
OU MAXTABLE 1 50
OU PLOTFILE 1 ALL FIRST C:\MARC\PROJETS\RIMOUSKI\2000RIMO

**ANNEXE II – Concentrations moyennes maximales
horaires pour chaque point
de la grille de récepteurs**

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
223920.00	5361812.00	.57344 (96041423)	224120.00	5361812.00	.57688 (96041423)
224320.00	5361812.00	.60531 (96051723)	224520.00	5361812.00	.63289 (96051723)
224720.00	5361812.00	.54321 (96082624)	224920.00	5361812.00	.70162 (96082624)
225120.00	5361812.00	.74501 (96072422)	225320.00	5361812.00	.79334 (96041422)
225520.00	5361812.00	.81608 (96091122)	225720.00	5361812.00	1.31215 (96091122)
225920.00	5361812.00	.90610 (96012607)	226120.00	5361812.00	.73743 (96022806)
226320.00	5361812.00	.87376 (96090203)	226520.00	5361812.00	1.25210 (96030706)
226720.00	5361812.00	.98618 (96030706)	226920.00	5361812.00	1.15667 (96041822)
227120.00	5361812.00	1.22150 (96011107)	227320.00	5361812.00	1.20140 (96082720)
227520.00	5361812.00	.66426 (96082720)	227720.00	5361812.00	.45508 (96101720)
227920.00	5361812.00	.60750 (96090703)	223920.00	5362012.00	.58907 (96012920)
224120.00	5362012.00	.61333 (96012920)	224320.00	5362012.00	.62594 (96041423)
224520.00	5362012.00	.66288 (96051723)	224720.00	5362012.00	.68300 (96051723)
224920.00	5362012.00	.73102 (96082624)	225120.00	5362012.00	.77944 (96072422)
225320.00	5362012.00	.82912 (96041422)	225520.00	5362012.00	.88279 (96091122)
225720.00	5362012.00	1.43949 (96091122)	225920.00	5362012.00	.94663 (96022806)
226120.00	5362012.00	.78472 (96090203)	226320.00	5362012.00	1.25214 (96030706)
226520.00	5362012.00	1.31532 (96030706)	226720.00	5362012.00	1.22221 (96041822)
226920.00	5362012.00	1.33194 (96041822)	227120.00	5362012.00	1.29270 (96082720)
227320.00	5362012.00	.82335 (96082720)	227520.00	5362012.00	.49749 (96101720)
227720.00	5362012.00	.73327 (96090703)	227920.00	5362012.00	.75389 (96090703)
223920.00	5362212.00	.79838 (96061804)	224120.00	5362212.00	.63475 (96012920)
224320.00	5362212.00	.66552 (96012920)	224520.00	5362212.00	.69085 (96041423)
224720.00	5362212.00	.73448 (96051723)	224920.00	5362212.00	.72564 (96051723)
225120.00	5362212.00	.83620 (96082624)	225320.00	5362212.00	.90183 (96072422)
225520.00	5362212.00	.96393 (96091122)	225720.00	5362212.00	1.59711 (96091122)
225920.00	5362212.00	1.12994 (96022806)	226120.00	5362212.00	1.05750 (96090203)
226320.00	5362212.00	1.49174 (96030706)	226520.00	5362212.00	1.30802 (96041822)
226720.00	5362212.00	1.45286 (96041822)	226920.00	5362212.00	1.38962 (96082720)
227120.00	5362212.00	1.03991 (96082720)	227320.00	5362212.00	.67024 (96090703)
227520.00	5362212.00	.85226 (96090703)	227720.00	5362212.00	.84330 (96120520)
227920.00	5362212.00	.60493 (96120520)	223920.00	5362412.00	.97350 (96061804)
224120.00	5362412.00	.99268 (96061804)	224320.00	5362412.00	.76624 (96061804)
224520.00	5362412.00	.73639 (96012920)	224720.00	5362412.00	.77573 (96041423)
224920.00	5362412.00	.82954 (96051723)	225120.00	5362412.00	.89503 (96082624)
225320.00	5362412.00	.98194 (96072422)	225520.00	5362412.00	1.08890 (96041422)
225720.00	5362412.00	1.80290 (96091122)	225920.00	5362412.00	1.24774 (96022806)
226120.00	5362412.00	1.57335 (96030706)	226320.00	5362412.00	1.59790 (96030706)
226520.00	5362412.00	1.50655 (96041822)	226720.00	5362412.00	1.63198 (96011107)

226920.00 5362412.00 1.32563 (96082720)

227120.00 5362412.00 .84385 (96090703)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)
227320.00	5362412.00	.96854 (96090703)	227520.00	5362412.00	.88492 (96120520)
227720.00	5362412.00	.44776 (96111601)	227920.00	5362412.00	.53948 (96111602)
223920.00	5362612.00	.99467 (96090201)	224120.00	5362612.00	1.06590 (96061804)
224320.00	5362612.00	1.12071 (96061804)	224520.00	5362612.00	1.13450 (96061804)
224720.00	5362612.00	.83157 (96012920)	224920.00	5362612.00	.88936 (96051723)
225120.00	5362612.00	.96520 (96051723)	225320.00	5362612.00	1.07531 (96072422)
225520.00	5362612.00	1.22957 (96041422)	225720.00	5362612.00	2.09402 (96091122)
225920.00	5362612.00	1.28833 (96022806)	226120.00	5362612.00	1.89502 (96030706)
226320.00	5362612.00	1.69516 (96041822)	226520.00	5362612.00	1.93870 (96011107)
226720.00	5362612.00	1.67952 (96082720)	226920.00	5362612.00	1.04767 (96090703)
227120.00	5362612.00	1.08483 (96120520)	227320.00	5362612.00	.80743 (96120520)
227520.00	5362612.00	.67862 (96081423)	227720.00	5362612.00	1.09566 (96081423)
227920.00	5362612.00	1.28962 (96081423)	223920.00	5362812.00	2.60227 (96040905)
224120.00	5362812.00	1.84626 (96040905)	224320.00	5362812.00	1.19677 (96090201)
224520.00	5362812.00	1.26818 (96061804)	224720.00	5362812.00	1.35584 (96061804)
224920.00	5362812.00	1.30524 (96061804)	225120.00	5362812.00	1.06400 (96051723)
225320.00	5362812.00	1.20344 (96082624)	225520.00	5362812.00	1.42331 (96041422)
225720.00	5362812.00	2.57134 (96091122)	225920.00	5362812.00	2.24988 (96030706)
226120.00	5362812.00	2.09944 (96030706)	226320.00	5362812.00	2.33790 (96041822)
226520.00	5362812.00	2.11373 (96082720)	226720.00	5362812.00	1.31681 (96090703)
226920.00	5362812.00	1.22941 (96120520)	227120.00	5362812.00	1.07327 (96081423)
227320.00	5362812.00	1.49555 (96081423)	227520.00	5362812.00	1.53485 (96081423)
227720.00	5362812.00	1.24185 (96081423)	227920.00	5362812.00	.86810 (96081822)
223920.00	5363012.00	4.19202 (96040905)	224120.00	5363012.00	4.08385 (96040905)
224320.00	5363012.00	3.77009 (96040905)	224520.00	5363012.00	3.19358 (96040905)
224720.00	5363012.00	2.26115 (96040905)	224920.00	5363012.00	1.62407 (96061804)
225120.00	5363012.00	1.81501 (96061804)	225320.00	5363012.00	1.40044 (96051723)
225520.00	5363012.00	1.79084 (96091122)	225720.00	5363012.00	3.49893 (96091122)
225920.00	5363012.00	2.94996 (96030706)	226120.00	5363012.00	2.63425 (96030706)
226320.00	5363012.00	2.74337 (96082720)	226520.00	5363012.00	1.61335 (96120520)
226720.00	5363012.00	1.73646 (96081423)	226920.00	5363012.00	2.00624 (96081423)
227120.00	5363012.00	1.81225 (96081423)	227320.00	5363012.00	1.23808 (96081423)
227520.00	5363012.00	.83773 (96081822)	227720.00	5363012.00	.67253 (96010402)
227920.00	5363012.00	.51122 (96010402)	223920.00	5363212.00	3.09238 (96040905)
224120.00	5363212.00	3.81427 (96040905)	224320.00	5363212.00	4.29998 (96040905)
224520.00	5363212.00	4.45721 (96040905)	224720.00	5363212.00	4.42622 (96040905)
224920.00	5363212.00	4.32067 (96040905)	225120.00	5363212.00	4.03467 (96040905)
225320.00	5363212.00	3.17970 (96040905)	225520.00	5363212.00	3.51279 (96061804)
225920.00	5363212.00	3.83749 (96030706)	226120.00	5363212.00	4.15087 (96082720)
226320.00	5363212.00	3.19549 (96081423)	226520.00	5363212.00	2.78135 (96081423)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
226720.00	5363212.00	2.14940 (96081423)	226920.00	5363212.00	1.16373 (96081423)
227120.00	5363212.00	1.17851 (96050503)	227320.00	5363212.00	1.28122 (96050503)
227520.00	5363212.00	1.33295 (96050503)	227720.00	5363212.00	1.33963 (96050503)
227920.00	5363212.00	1.30834 (96050503)	223920.00	5363412.00	1.38328 (96061122)
224120.00	5363412.00	1.49299 (96061122)	224320.00	5363412.00	1.86659 (96040905)
224520.00	5363412.00	2.82745 (96040905)	224720.00	5363412.00	3.84014 (96040905)
224920.00	5363412.00	4.46385 (96040905)	225120.00	5363412.00	4.51660 (96040905)
225320.00	5363412.00	4.49445 (96040905)	226320.00	5363412.00	3.90013 (96050503)
226520.00	5363412.00	2.97145 (96050503)	226720.00	5363412.00	2.41248 (96082302)
226920.00	5363412.00	2.07272 (96082302)	227120.00	5363412.00	1.81188 (96082302)
227320.00	5363412.00	1.59529 (96082302)	227520.00	5363412.00	1.41124 (96082302)
227720.00	5363412.00	1.25633 (96082302)	227920.00	5363412.00	1.12142 (96082302)
223920.00	5363612.00	1.37269 (96051523)	224120.00	5363612.00	1.57427 (96051523)
224320.00	5363612.00	1.80109 (96051523)	224520.00	5363612.00	2.06639 (96051523)
224720.00	5363612.00	2.40818 (96051523)	224920.00	5363612.00	2.90820 (96051523)
225120.00	5363612.00	3.96344 (96101918)	226520.00	5363612.00	2.25587 (96052624)
226720.00	5363612.00	1.94239 (96052624)	226920.00	5363612.00	1.65402 (96052624)
227120.00	5363612.00	1.26187 (96052624)	227320.00	5363612.00	.99536 (96081421)
227520.00	5363612.00	.92438 (96072624)	227720.00	5363612.00	.86403 (96072624)
227920.00	5363612.00	.81024 (96072624)	223920.00	5363812.00	1.45822 (96101918)
224120.00	5363812.00	1.73176 (96101918)	224320.00	5363812.00	1.90600 (96102006)
224520.00	5363812.00	2.13673 (96102006)	224720.00	5363812.00	2.37424 (96080305)
224920.00	5363812.00	2.78393 (96041823)	225120.00	5363812.00	3.12738 (96041823)
225320.00	5363812.00	4.17910 (96090705)	226720.00	5363812.00	1.73543 (96061822)
226920.00	5363812.00	1.57720 (96060422)	227120.00	5363812.00	1.45146 (96052624)
227320.00	5363812.00	1.35180 (96052624)	227520.00	5363812.00	1.26577 (96052624)
227720.00	5363812.00	1.17706 (96052624)	227920.00	5363812.00	1.05691 (96052624)
223920.00	5364012.00	1.37912 (96102006)	224120.00	5364012.00	1.60341 (96080305)
224320.00	5364012.00	1.85456 (96041823)	224520.00	5364012.00	1.92858 (96041823)
224720.00	5364012.00	1.95267 (96090705)	224920.00	5364012.00	2.42585 (96090705)
225120.00	5364012.00	2.76023 (96101824)	225320.00	5364012.00	3.29205 (96111723)
225520.00	5364012.00	4.19011 (96113020)	226520.00	5364012.00	1.68304 (96050701)
226720.00	5364012.00	1.54030 (96061803)	226920.00	5364012.00	1.41623 (96061803)
227120.00	5364012.00	1.29955 (96061803)	227320.00	5364012.00	1.23299 (96061822)
227520.00	5364012.00	1.18112 (96061822)	227720.00	5364012.00	1.12085 (96061822)
227920.00	5364012.00	1.05659 (96060422)	223920.00	5364212.00	1.48846 (96041823)
224120.00	5364212.00	1.35256 (96041823)	224320.00	5364212.00	1.42838 (96090705)
224520.00	5364212.00	1.83001 (96090705)	224720.00	5364212.00	1.89877 (96090705)
224920.00	5364212.00	2.17068 (96101824)	225120.00	5364212.00	2.42735 (96111723)
225320.00	5364212.00	2.73952 (96113020)	225520.00	5364212.00	2.95560 (96072504)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
225720.00	5364212.00	2.64444 (96091602)	226320.00	5364212.00	1.63682 (96031220)
226520.00	5364212.00	1.49305 (96052623)	226720.00	5364212.00	1.38021 (96020122)
226920.00	5364212.00	1.29765 (96050701)	227120.00	5364212.00	1.21655 (96050701)
227320.00	5364212.00	1.16190 (96061803)	227520.00	5364212.00	1.09531 (96061803)
227720.00	5364212.00	.99374 (96061803)	227920.00	5364212.00	.91207 (96061822)
223920.00	5364412.00	1.02667 (96090705)	224120.00	5364412.00	1.47391 (96090705)
224320.00	5364412.00	1.58019 (96090705)	224520.00	5364412.00	1.69249 (96101824)
224720.00	5364412.00	1.66577 (96101824)	224920.00	5364412.00	1.98388 (96111723)
225120.00	5364412.00	2.16293 (96102003)	225320.00	5364412.00	2.22808 (96102005)
225520.00	5364412.00	2.41895 (96092402)	225720.00	5364412.00	2.16090 (96091602)
225920.00	5364412.00	1.85604 (96050504)	226120.00	5364412.00	1.62168 (96051601)
226320.00	5364412.00	1.47801 (96083122)	226520.00	5364412.00	1.35586 (96031220)
226720.00	5364412.00	1.26944 (96082203)	226920.00	5364412.00	1.19690 (96050702)
227120.00	5364412.00	1.13349 (96050702)	227320.00	5364412.00	1.08482 (96050701)
227520.00	5364412.00	1.03445 (96050701)	227720.00	5364412.00	.99667 (96061803)
227920.00	5364412.00	.96842 (96061803)	223920.00	5364612.00	1.36432 (96090705)
224120.00	5364612.00	1.30564 (96101824)	224320.00	5364612.00	1.51803 (96101824)
224520.00	5364612.00	1.46866 (96111723)	224720.00	5364612.00	1.66119 (96040822)
224920.00	5364612.00	1.82411 (96102003)	225120.00	5364612.00	1.72988 (96102005)
225320.00	5364612.00	1.90032 (96051603)	225520.00	5364612.00	1.98747 (96092402)
225720.00	5364612.00	1.86880 (96091602)	225920.00	5364612.00	1.63781 (96050504)
226120.00	5364612.00	1.47999 (96071324)	226320.00	5364612.00	1.35753 (96010321)
226520.00	5364612.00	1.26219 (96051404)	226720.00	5364612.00	1.23534 (96051404)
226920.00	5364612.00	1.11304 (96062801)	227120.00	5364612.00	1.06525 (96082203)
227320.00	5364612.00	1.02110 (96050702)	227520.00	5364612.00	.97879 (96050702)
227720.00	5364612.00	.95319 (96020122)	227920.00	5364612.00	.91870 (96050701)
223920.00	5364812.00	1.26575 (96101824)	224120.00	5364812.00	1.28157 (96101824)
224320.00	5364812.00	1.34180 (96111723)	224520.00	5364812.00	1.46486 (96040822)
224720.00	5364812.00	1.57590 (96091720)	224920.00	5364812.00	1.58605 (96113020)
225120.00	5364812.00	1.59656 (96091619)	225320.00	5364812.00	1.73313 (96011305)
225520.00	5364812.00	1.57918 (96092402)	225720.00	5364812.00	1.66413 (96062122)
225920.00	5364812.00	1.47626 (96050504)	226120.00	5364812.00	1.35942 (96071324)
226320.00	5364812.00	1.25984 (96051601)	226520.00	5364812.00	1.17878 (96083122)
226720.00	5364812.00	1.24923 (96051404)	226920.00	5364812.00	1.18700 (96051404)
227120.00	5364812.00	1.00210 (96062801)	227320.00	5364812.00	.96766 (96082203)
227520.00	5364812.00	.93814 (96052623)	227720.00	5364812.00	.91085 (96050702)
227920.00	5364812.00	.86808 (96020122)	223920.00	5365012.00	.96562 (96101824)
224120.00	5365012.00	1.24474 (96111723)	224320.00	5365012.00	1.31929 (96040822)
224520.00	5365012.00	1.39931 (96091720)	224720.00	5365012.00	1.44276 (96113020)
224920.00	5365012.00	1.43708 (96102005)	225120.00	5365012.00	1.49015 (96062802)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
225320.00	5365012.00	1.57768 (96072504)	225520.00	5365012.00	1.41967 (96090105)
225720.00	5365012.00	1.50488 (96062122)	225920.00	5365012.00	1.36547 (96072203)
226120.00	5365012.00	1.23983 (96052702)	226320.00	5365012.00	1.17689 (96051601)
226520.00	5365012.00	1.10336 (96010321)	226720.00	5365012.00	1.05263 (96121602)
226920.00	5365012.00	1.23041 (96051404)	227120.00	5365012.00	1.12746 (96051404)
227320.00	5365012.00	.92066 (96062801)	227520.00	5365012.00	.87468 (96082203)
227720.00	5365012.00	.87417 (96082203)	227920.00	5365012.00	.84950 (96052623)
223920.00	5365212.00	1.16558 (96111723)	224120.00	5365212.00	1.20924 (96040822)
224320.00	5365212.00	1.26273 (96091720)	224520.00	5365212.00	1.26975 (96113020)
224720.00	5365212.00	1.23006 (96102005)	224920.00	5365212.00	1.30653 (96091619)
225120.00	5365212.00	1.37025 (96051603)	225320.00	5365212.00	1.43831 (96091621)
225520.00	5365212.00	1.36960 (96090105)	225720.00	5365212.00	1.37224 (96062122)
225920.00	5365212.00	1.27947 (96072203)	226120.00	5365212.00	1.18969 (96052702)
226320.00	5365212.00	1.11717 (96011024)	226520.00	5365212.00	1.05319 (96091620)
226720.00	5365212.00	.99824 (96083122)	226920.00	5365212.00	.98414 (96051404)
227120.00	5365212.00	1.20370 (96051404)	227320.00	5365212.00	1.06117 (96051404)
227520.00	5365212.00	.85775 (96062801)	227720.00	5365212.00	.74940 (96082203)
227920.00	5365212.00	.81765 (96082203)	223920.00	5365412.00	1.11952 (96040822)
224120.00	5365412.00	1.15606 (96091720)	224320.00	5365412.00	1.13086 (96113020)
224520.00	5365412.00	1.00132 (96113020)	224720.00	5365412.00	1.22675 (96102005)
224920.00	5365412.00	1.25132 (96011018)	225120.00	5365412.00	1.29250 (96011019)
225320.00	5365412.00	1.29422 (96092402)	225520.00	5365412.00	1.31103 (96090105)
225720.00	5365412.00	1.25984 (96050621)	225920.00	5365412.00	1.19323 (96072203)
226120.00	5365412.00	1.12306 (96050504)	226320.00	5365412.00	1.05544 (96071324)
226520.00	5365412.00	1.00392 (96051601)	226720.00	5365412.00	.94487 (96010321)
226920.00	5365412.00	.92354 (96083122)	227120.00	5365412.00	1.00172 (96051404)
227320.00	5365412.00	1.16910 (96051404)	227520.00	5365412.00	.99250 (96051404)
227720.00	5365412.00	.80496 (96062801)	227920.00	5365412.00	.62379 (96062801)
223920.00	5365612.00	1.06851 (96031902)	224120.00	5365612.00	1.00170 (96113020)
224320.00	5365612.00	1.06759 (96113020)	224520.00	5365612.00	1.10030 (96102005)
224720.00	5365612.00	1.10508 (96091619)	224920.00	5365612.00	1.17861 (96062802)
225120.00	5365612.00	1.19510 (96011305)	225320.00	5365612.00	1.22229 (96092402)
225520.00	5365612.00	1.24757 (96090105)	225720.00	5365612.00	1.17235 (96050621)
225920.00	5365612.00	1.09933 (96072203)	226120.00	5365612.00	1.05832 (96050504)
226320.00	5365612.00	.95090 (96071324)	226520.00	5365612.00	.95752 (96011024)
226720.00	5365612.00	.92529 (96010321)	226920.00	5365612.00	.87410 (96083122)
227120.00	5365612.00	.86164 (96121602)	227320.00	5365612.00	1.01020 (96051404)
227520.00	5365612.00	1.12731 (96051404)	227720.00	5365612.00	.92530 (96051404)
227920.00	5365612.00	.76100 (96062801)	223920.00	5365812.00	.96966 (96102003)
224120.00	5365812.00	1.04105 (96113020)	224320.00	5365812.00	.89342 (96102005)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
224520.00	5365812.00	1.05667 (96102005)	224720.00	5365812.00	1.09306 (96091619)
224920.00	5365812.00	1.08495 (96051603)	225120.00	5365812.00	1.13440 (96072504)
225320.00	5365812.00	1.10793 (96092402)	225520.00	5365812.00	1.18113 (96090105)
225720.00	5365812.00	1.09947 (96050621)	225920.00	5365812.00	.99298 (96072203)
226120.00	5365812.00	.96164 (96050504)	226320.00	5365812.00	.92333 (96052702)
226520.00	5365812.00	.92876 (96071324)	226720.00	5365812.00	.89364 (96051601)
226920.00	5365812.00	.84075 (96010321)	227120.00	5365812.00	.83273 (96083122)
227320.00	5365812.00	.80503 (96121602)	227520.00	5365812.00	1.01037 (96051404)
227720.00	5365812.00	1.08012 (96051404)	227920.00	5365812.00	.86103 (96051404)
225503.00	5362713.00	1.29909 (96041422)	224887.00	5363420.00	4.36263 (96040905)
224770.00	5363469.00	3.14690 (96040905)	225257.00	5364124.00	2.82512 (96040822)
225468.00	5364207.00	2.78649 (96011019)	225252.00	5363603.00	5.42093 (96102006)
225695.00	5363192.00	5.56368 (96091122)	226208.00	5363365.00	4.61120 (96081423)
226364.00	5363533.00	2.91658 (96052624)	226639.00	5363829.00	1.81336 (96061822)
226539.00	5363924.00	1.77881 (96061803)	226369.00	5364086.00	1.73846 (96050702)
226246.00	5364203.00	1.72240 (96083122)	226148.00	5364294.00	1.73409 (96091620)
226060.00	5364257.00	1.85380 (96011024)	225988.00	5364243.00	1.98657 (96071324)
225939.00	5364228.00	2.09407 (96071324)	225848.00	5364189.00	2.36402 (96050504)
225748.00	5364140.00	2.80067 (96101807)	225660.00	5364096.00	3.42487 (96072302)
225579.00	5364037.00	4.09281 (96091621)	225528.00	5363987.00	4.48514 (96113020)
225484.00	5363930.00	4.55249 (96091720)	225452.00	5363880.00	4.66926 (96111723)
225401.00	5363792.00	4.99484 (96090705)	225357.00	5363722.00	5.24412 (96090705)
225317.00	5363668.00	5.45101 (96080305)	225278.00	5363624.00	5.49286 (96102006)
225252.00	5363603.00	5.42093 (96102006)			

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,
 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)
223920.00	5361812.00	.83611 (97112223)	224120.00	5361812.00	.88697 (97112223)
224320.00	5361812.00	.80316 (97112223)	224520.00	5361812.00	.63600 (97121105)
224720.00	5361812.00	.51885 (97121105)	224920.00	5361812.00	.70011 (97101618)
225120.00	5361812.00	.98416 (97052321)	225320.00	5361812.00	1.16193 (97052321)
225520.00	5361812.00	.83119 (97112207)	225720.00	5361812.00	.90329 (97101418)
225920.00	5361812.00	.90610 (97101622)	226120.00	5361812.00	.79874 (97050920)
226320.00	5361812.00	.85512 (97081903)	226520.00	5361812.00	1.24825 (97081903)
226720.00	5361812.00	.80433 (97081903)	226920.00	5361812.00	.74690 (97111601)
227120.00	5361812.00	.79963 (97111601)	227320.00	5361812.00	.60070 (97091703)
227520.00	5361812.00	.54208 (97082723)	227720.00	5361812.00	.86256 (97081024)
227920.00	5361812.00	1.09782 (97081024)	223920.00	5362012.00	.59504 (97082604)
224120.00	5362012.00	.90821 (97112223)	224320.00	5362012.00	.95359 (97112223)
224520.00	5362012.00	.85974 (97112223)	224720.00	5362012.00	.69312 (97121105)
224920.00	5362012.00	.71635 (97101618)	225120.00	5362012.00	.87582 (97052321)
225320.00	5362012.00	1.27497 (97052321)	225520.00	5362012.00	.84847 (97060205)
225720.00	5362012.00	.99049 (97101418)	225920.00	5362012.00	1.02189 (97081104)
226120.00	5362012.00	.80609 (97050920)	226320.00	5362012.00	1.34050 (97081903)
226520.00	5362012.00	1.27679 (97081903)	226720.00	5362012.00	.88802 (97062623)
226920.00	5362012.00	.88810 (97111601)	227120.00	5362012.00	.65882 (97091701)
227320.00	5362012.00	.63577 (97082723)	227520.00	5362012.00	1.04197 (97081024)
227720.00	5362012.00	1.20368 (97081024)	227920.00	5362012.00	.78419 (97081024)
223920.00	5362212.00	.79838 (97060722)	224120.00	5362212.00	.64022 (97082604)
224320.00	5362212.00	.99258 (97112223)	224520.00	5362212.00	1.04454 (97112223)
224720.00	5362212.00	.93366 (97112223)	224920.00	5362212.00	.75828 (97121105)
225120.00	5362212.00	.83652 (97081103)	225320.00	5362212.00	1.36393 (97052321)
225520.00	5362212.00	1.03465 (97052321)	225720.00	5362212.00	1.09810 (97101418)
225920.00	5362212.00	1.09728 (97081104)	226120.00	5362212.00	.95073 (97081102)
226320.00	5362212.00	1.48874 (97081903)	226520.00	5362212.00	1.05488 (97081903)
226720.00	5362212.00	.92876 (97111601)	226920.00	5362212.00	.72461 (97091701)
227120.00	5362212.00	.81310 (97081024)	227320.00	5362212.00	1.21734 (97081024)
227520.00	5362212.00	1.29240 (97081024)	227720.00	5362212.00	1.01406 (97081023)
227920.00	5362212.00	1.21026 (97081023)	223920.00	5362412.00	.97350 (97060722)
224120.00	5362412.00	.99268 (97060722)	224320.00	5362412.00	.76624 (97060722)
224520.00	5362412.00	1.10146 (97112223)	224720.00	5362412.00	1.16655 (97112223)
224920.00	5362412.00	1.02594 (97112223)	225120.00	5362412.00	.89218 (97101618)
225320.00	5362412.00	1.45400 (97052321)	225520.00	5362412.00	1.47192 (97052321)
225720.00	5362412.00	1.23691 (97101418)	225920.00	5362412.00	1.16859 (97050920)
226120.00	5362412.00	1.66025 (97081903)	226320.00	5362412.00	1.58297 (97081903)
226520.00	5362412.00	1.07078 (97062623)	226720.00	5362412.00	1.00816 (97111601)

226920.00 5362412.00 1.13823 (97081024)

227120.00 5362412.00 1.42951 (97081024)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
227320.00	5362412.00	1.34628 (97081024)	227520.00	5362412.00	1.32698 (97081023)
227720.00	5362412.00	1.26224 (97081023)	227920.00	5362412.00	1.24163 (97101906)
223920.00	5362612.00	1.02714 (97082903)	224120.00	5362612.00	1.06973 (97081902)
224320.00	5362612.00	1.12071 (97060722)	224520.00	5362612.00	1.13450 (97060722)
224720.00	5362612.00	1.24496 (97112223)	224920.00	5362612.00	1.33428 (97112223)
225120.00	5362612.00	1.13925 (97112223)	225320.00	5362612.00	1.50560 (97052321)
225520.00	5362612.00	1.82863 (97052321)	225720.00	5362612.00	1.44751 (97080901)
225920.00	5362612.00	1.32991 (97050920)	226120.00	5362612.00	1.89782 (97081903)
226320.00	5362612.00	1.46854 (97081903)	226520.00	5362612.00	1.29323 (97111601)
226720.00	5362612.00	1.42586 (97081024)	226920.00	5362612.00	1.70080 (97081024)
227120.00	5362612.00	1.44216 (97081023)	227320.00	5362612.00	1.54175 (97081023)
227520.00	5362612.00	1.45440 (97101906)	227720.00	5362612.00	1.26411 (97081004)
227920.00	5362612.00	1.30988 (97081004)	223920.00	5362812.00	1.09059 (97042321)
224120.00	5362812.00	1.14330 (97071423)	224320.00	5362812.00	1.20248 (97082903)
224520.00	5362812.00	1.27266 (97081902)	224720.00	5362812.00	1.35584 (97060722)
224920.00	5362812.00	1.45087 (97112223)	225120.00	5362812.00	1.59323 (97112223)
225320.00	5362812.00	1.42497 (97052321)	225520.00	5362812.00	2.12920 (97052321)
225720.00	5362812.00	1.78111 (97080901)	225920.00	5362812.00	2.34303 (97081903)
226120.00	5362812.00	2.09182 (97081903)	226320.00	5362812.00	1.50678 (97111601)
226520.00	5362812.00	1.71420 (97081024)	226720.00	5362812.00	2.00341 (97081024)
226920.00	5362812.00	1.85505 (97081023)	227120.00	5362812.00	1.74797 (97101906)
227320.00	5362812.00	1.59553 (97081004)	227520.00	5362812.00	1.49026 (97081004)
227720.00	5362812.00	1.05376 (97081004)	227920.00	5362812.00	.63290 (97081822)
223920.00	5363012.00	1.17062 (97112218)	224120.00	5363012.00	1.23313 (97112218)
224320.00	5363012.00	1.29977 (97042321)	224520.00	5363012.00	1.39020 (97042321)
224720.00	5363012.00	1.49471 (97071423)	224920.00	5363012.00	1.62878 (97082903)
225120.00	5363012.00	1.81501 (97060722)	225320.00	5363012.00	2.09557 (97112223)
225520.00	5363012.00	2.61305 (97052321)	225720.00	5363012.00	2.41967 (97072721)
225920.00	5363012.00	2.95462 (97081903)	226120.00	5363012.00	2.46793 (97081903)
226320.00	5363012.00	2.32447 (97081024)	226520.00	5363012.00	2.41413 (97081024)
226720.00	5363012.00	2.19808 (97101906)	226920.00	5363012.00	2.02620 (97081004)
227120.00	5363012.00	1.71421 (97081004)	227320.00	5363012.00	1.01964 (97081004)
227520.00	5363012.00	1.04011 (97081822)	227720.00	5363012.00	.96195 (97081822)
227920.00	5363012.00	.79634 (97081822)	223920.00	5363212.00	1.26483 (97050820)
224120.00	5363212.00	1.34771 (97050820)	224320.00	5363212.00	1.43931 (97050820)
224520.00	5363212.00	1.54604 (97010506)	224720.00	5363212.00	1.68850 (97010506)
224920.00	5363212.00	1.88143 (97010506)	225120.00	5363212.00	2.16317 (97112218)
225320.00	5363212.00	2.62927 (97071423)	225520.00	5363212.00	3.56121 (97052321)
225920.00	5363212.00	3.81683 (97081903)	226120.00	5363212.00	4.14546 (97081024)
226320.00	5363212.00	3.27103 (97101906)	226520.00	5363212.00	2.77651 (97081004)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
226720.00	5363212.00	1.98581 (97081004)	226920.00	5363212.00	1.44673 (97081822)
227120.00	5363212.00	1.15064 (97081822)	227320.00	5363212.00	.98614 (97062224)
227520.00	5363212.00	.99017 (97062224)	227720.00	5363212.00	.95541 (97062224)
227920.00	5363212.00	.99723 (97040420)	223920.00	5363412.00	1.38236 (97072704)
224120.00	5363412.00	1.48606 (97072704)	224320.00	5363412.00	1.61824 (97050821)
224520.00	5363412.00	1.77508 (97050821)	224720.00	5363412.00	1.98380 (97050821)
224920.00	5363412.00	2.28952 (97050821)	225120.00	5363412.00	2.79623 (97050821)
225320.00	5363412.00	3.78328 (97050821)	226320.00	5363412.00	3.69113 (97040420)
226520.00	5363412.00	2.90528 (97040420)	226720.00	5363412.00	2.41248 (97040420)
226920.00	5363412.00	2.13416 (97020807)	227120.00	5363412.00	2.07323 (97020807)
227320.00	5363412.00	2.01179 (97020807)	227520.00	5363412.00	1.95068 (97020807)
227720.00	5363412.00	1.89033 (97020807)	227920.00	5363412.00	1.83127 (97020807)
223920.00	5363612.00	1.37269 (97072122)	224120.00	5363612.00	1.57427 (97072122)
224320.00	5363612.00	1.80109 (97072122)	224520.00	5363612.00	2.06639 (97072122)
224720.00	5363612.00	2.40818 (97072122)	224920.00	5363612.00	2.90820 (97072122)
225120.00	5363612.00	4.01482 (97040120)	226520.00	5363612.00	2.26292 (97110602)
226720.00	5363612.00	1.95506 (97020807)	226920.00	5363612.00	1.90103 (97020807)
227120.00	5363612.00	1.84747 (97020807)	227320.00	5363612.00	1.79398 (97020807)
227520.00	5363612.00	1.73798 (97020807)	227720.00	5363612.00	1.68492 (97020807)
227920.00	5363612.00	1.63266 (97020807)	223920.00	5363812.00	1.55816 (97040120)
224120.00	5363812.00	1.72972 (97040120)	224320.00	5363812.00	1.93692 (97032522)
224520.00	5363812.00	2.15185 (97071421)	224720.00	5363812.00	2.43413 (97082201)
224920.00	5363812.00	2.78393 (97110703)	225120.00	5363812.00	3.27977 (97060122)
225320.00	5363812.00	4.17646 (97070202)	226720.00	5363812.00	1.71466 (97112805)
226920.00	5363812.00	1.53701 (97112805)	227120.00	5363812.00	1.43709 (97110602)
227320.00	5363812.00	1.34928 (97110602)	227520.00	5363812.00	1.26994 (97110602)
227720.00	5363812.00	1.19796 (97110602)	227920.00	5363812.00	1.11758 (97110602)
223920.00	5364012.00	1.57020 (97071421)	224120.00	5364012.00	1.66188 (97082201)
224320.00	5364012.00	1.85456 (97110703)	224520.00	5364012.00	2.01406 (97040402)
224720.00	5364012.00	2.19017 (97060122)	224920.00	5364012.00	2.40931 (97070202)
225120.00	5364012.00	2.76391 (97051002)	225320.00	5364012.00	3.29307 (97081301)
225520.00	5364012.00	4.23608 (97082023)	226520.00	5364012.00	1.68208 (97091404)
226720.00	5364012.00	1.53781 (97091404)	226920.00	5364012.00	1.42905 (97062701)
227120.00	5364012.00	1.32668 (97112805)	227320.00	5364012.00	1.25136 (97112805)
227520.00	5364012.00	1.17140 (97112805)	227720.00	5364012.00	1.08577 (97112805)
227920.00	5364012.00	.92118 (97112805)	223920.00	5364212.00	1.48846 (97110703)
224120.00	5364212.00	1.58326 (97040402)	224320.00	5364212.00	1.72984 (97060122)
224520.00	5364212.00	1.77867 (97070202)	224720.00	5364212.00	1.97107 (97060622)
224920.00	5364212.00	2.18330 (97101220)	225120.00	5364212.00	2.41740 (97081301)
225320.00	5364212.00	2.77396 (97050924)	225520.00	5364212.00	3.72999 (97112307)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
225720.00	5364212.00	2.70834 (97112307)	226320.00	5364212.00	2.18329 (97051504)
226520.00	5364212.00	1.83161 (97051504)	226720.00	5364212.00	1.35320 (97042205)
226920.00	5364212.00	1.23129 (97091404)	227120.00	5364212.00	1.22403 (97091404)
227320.00	5364212.00	1.15916 (97091404)	227520.00	5364212.00	1.10428 (97062701)
227720.00	5364212.00	1.05820 (97062701)	227920.00	5364212.00	1.01320 (97112805)
223920.00	5364412.00	1.44537 (97060122)	224120.00	5364412.00	1.39739 (97070202)
224320.00	5364412.00	1.61606 (97070202)	224520.00	5364412.00	1.72085 (97051002)
224720.00	5364412.00	1.84683 (97060401)	224920.00	5364412.00	1.92429 (97081301)
225120.00	5364412.00	2.16293 (97121103)	225320.00	5364412.00	2.15812 (97042602)
225520.00	5364412.00	3.86878 (97112307)	225720.00	5364412.00	2.45436 (97112307)
225920.00	5364412.00	1.84940 (97020422)	226120.00	5364412.00	1.62442 (97110604)
226320.00	5364412.00	2.16201 (97051504)	226520.00	5364412.00	2.15716 (97051504)
226720.00	5364412.00	1.67350 (97051504)	226920.00	5364412.00	1.17996 (97042205)
227120.00	5364412.00	.75420 (97042124)	227320.00	5364412.00	.92768 (97091404)
227520.00	5364412.00	1.01804 (97091404)	227720.00	5364412.00	1.00360 (97091404)
227920.00	5364412.00	.95859 (97091404)	223920.00	5364612.00	1.36627 (97070202)
224120.00	5364612.00	1.42436 (97060622)	224320.00	5364612.00	1.50667 (97101220)
224520.00	5364612.00	1.58899 (97060401)	224720.00	5364612.00	1.59762 (97010319)
224920.00	5364612.00	1.82411 (97121103)	225120.00	5364612.00	1.70606 (97042602)
225320.00	5364612.00	1.90032 (97042424)	225520.00	5364612.00	3.77117 (97112307)
225720.00	5364612.00	2.16650 (97112307)	225920.00	5364612.00	1.63520 (97091405)
226120.00	5364612.00	1.46797 (97110604)	226320.00	5364612.00	1.47185 (97051504)
226520.00	5364612.00	2.14573 (97051504)	226720.00	5364612.00	2.10008 (97051504)
226920.00	5364612.00	1.51375 (97051504)	227120.00	5364612.00	1.05521 (97042205)
227320.00	5364612.00	.76940 (97042205)	227520.00	5364612.00	.64686 (97012420)
227720.00	5364612.00	.70315 (97091404)	227920.00	5364612.00	.85872 (97091404)
223920.00	5364812.00	1.30312 (97051002)	224120.00	5364812.00	1.35828 (97071504)
224320.00	5364812.00	1.39809 (97081301)	224520.00	5364812.00	1.40702 (97010319)
224720.00	5364812.00	1.56920 (97121103)	224920.00	5364812.00	1.63566 (97082023)
225120.00	5364812.00	1.63223 (97042602)	225320.00	5364812.00	2.30939 (97112307)
225520.00	5364812.00	3.55452 (97112307)	225720.00	5364812.00	1.85706 (97112307)
225920.00	5364812.00	1.49604 (97091405)	226120.00	5364812.00	1.36804 (97090103)
226320.00	5364812.00	1.25766 (97043001)	226520.00	5364812.00	1.56611 (97051504)
226720.00	5364812.00	2.12369 (97051504)	226920.00	5364812.00	2.01789 (97051504)
227120.00	5364812.00	1.36461 (97051504)	227320.00	5364812.00	.96285 (97042205)
227520.00	5364812.00	.77045 (97042205)	227720.00	5364812.00	.60543 (97042124)
227920.00	5364812.00	.57874 (97012420)	223920.00	5365012.00	1.23931 (97060401)
224120.00	5365012.00	1.28707 (97081301)	224320.00	5365012.00	1.26655 (97010319)
224520.00	5365012.00	1.37373 (97121103)	224720.00	5365012.00	1.41988 (97050924)
224920.00	5365012.00	1.38976 (97042602)	225120.00	5365012.00	1.47738 (97030506)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
225320.00	5365012.00	2.66424 (97112307)	225520.00	5365012.00	3.29595 (97112307)
225720.00	5365012.00	1.55645 (97112307)	225920.00	5365012.00	1.37644 (97091405)
226120.00	5365012.00	1.27316 (97010401)	226320.00	5365012.00	1.18022 (97110604)
226520.00	5365012.00	1.07795 (97043001)	226720.00	5365012.00	1.62822 (97051504)
226920.00	5365012.00	2.09169 (97051504)	227120.00	5365012.00	1.91668 (97051504)
227320.00	5365012.00	1.23111 (97051504)	227520.00	5365012.00	.89557 (97042205)
227720.00	5365012.00	.76083 (97042205)	227920.00	5365012.00	.56680 (97042124)
223920.00	5365212.00	1.18522 (97081301)	224120.00	5365212.00	1.16089 (97010319)
224320.00	5365212.00	1.22867 (97121103)	224520.00	5365212.00	1.29860 (97050924)
224720.00	5365212.00	1.09232 (97042602)	224920.00	5365212.00	1.32934 (97042602)
225120.00	5365212.00	1.37375 (97042501)	225320.00	5365212.00	2.91508 (97112307)
225520.00	5365212.00	3.02002 (97112307)	225720.00	5365212.00	1.37224 (97020405)
225920.00	5365212.00	1.27947 (97063001)	226120.00	5365212.00	1.18969 (97020422)
226320.00	5365212.00	1.09057 (97110604)	226520.00	5365212.00	1.05319 (97043001)
226720.00	5365212.00	.82120 (97090305)	226920.00	5365212.00	1.67304 (97051504)
227120.00	5365212.00	2.04628 (97051504)	227320.00	5365212.00	1.80398 (97051504)
227520.00	5365212.00	1.11608 (97051504)	227720.00	5365212.00	.84072 (97042205)
227920.00	5365212.00	.74316 (97042205)	223920.00	5365412.00	1.07284 (97010319)
224120.00	5365412.00	1.11722 (97121103)	224320.00	5365412.00	1.17315 (97050924)
224520.00	5365412.00	1.15258 (97082023)	224720.00	5365412.00	1.19295 (97042602)
224920.00	5365412.00	1.25132 (97030506)	225120.00	5365412.00	1.26659 (97042501)
225320.00	5365412.00	3.05339 (97112307)	225520.00	5365412.00	2.73545 (97112307)
225720.00	5365412.00	1.25984 (97121101)	225920.00	5365412.00	1.19323 (97063001)
226120.00	5365412.00	1.12017 (97020422)	226320.00	5365412.00	1.05664 (97090103)
226520.00	5365412.00	1.00567 (97110604)	226720.00	5365412.00	.90856 (97043001)
226920.00	5365412.00	.87332 (97051504)	227120.00	5365412.00	1.70292 (97051504)
227320.00	5365412.00	1.98747 (97051504)	227520.00	5365412.00	1.68725 (97051504)
227720.00	5365412.00	1.01852 (97051504)	227920.00	5365412.00	.79359 (97042205)
223920.00	5365612.00	1.01912 (97121103)	224120.00	5365612.00	1.06079 (97050924)
224320.00	5365612.00	1.12021 (97082023)	224520.00	5365612.00	.94970 (97042602)
224720.00	5365612.00	1.13241 (97042602)	224920.00	5365612.00	1.17331 (97042424)
225120.00	5365612.00	1.49971 (97112307)	225320.00	5365612.00	3.09014 (97112307)
225520.00	5365612.00	2.45210 (97112307)	225720.00	5365612.00	1.17235 (97121101)
225920.00	5365612.00	1.10900 (97081923)	226120.00	5365612.00	1.02748 (97020422)
226320.00	5365612.00	1.01275 (97042922)	226520.00	5365612.00	.94809 (97110604)
226720.00	5365612.00	.92408 (97043001)	226920.00	5365612.00	.78641 (97090305)
227120.00	5365612.00	1.00375 (97051504)	227320.00	5365612.00	1.71734 (97051504)
227520.00	5365612.00	1.91643 (97051504)	227720.00	5365612.00	1.57302 (97051504)
227920.00	5365612.00	.93554 (97051504)	223920.00	5365812.00	.96966 (97121103)
224120.00	5365812.00	1.03557 (97082023)	224320.00	5365812.00	.73559 (97082023)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
224520.00	5365812.00	1.05997 (97042602)	224720.00	5365812.00	1.09306 (97042504)
224920.00	5365812.00	1.09768 (97042501)	225120.00	5365812.00	1.80763 (97112307)
225320.00	5365812.00	3.04498 (97112307)	225520.00	5365812.00	2.17896 (97112307)
225720.00	5365812.00	1.09947 (97121101)	225920.00	5365812.00	1.05841 (97081923)
226120.00	5365812.00	.99298 (97091405)	226320.00	5365812.00	.97068 (97010401)
226520.00	5365812.00	.86390 (97090103)	226720.00	5365812.00	.89025 (97110604)
226920.00	5365812.00	.79646 (97043001)	227120.00	5365812.00	.74509 (97090305)
227320.00	5365812.00	1.10810 (97051504)	227520.00	5365812.00	1.71763 (97051504)
227720.00	5365812.00	1.83621 (97051504)	227920.00	5365812.00	1.46375 (97051504)
225503.00	5362713.00	1.94100 (97052321)	224887.00	5363420.00	2.24583 (97050821)
224770.00	5363469.00	2.16007 (97072704)	225257.00	5364124.00	2.81352 (97010319)
225468.00	5364207.00	3.08169 (97112307)	225252.00	5363603.00	5.43017 (97032522)
225695.00	5363192.00	5.40428 (97052321)	226208.00	5363365.00	4.60141 (97081004)
226364.00	5363533.00	2.92552 (97110602)	226639.00	5363829.00	1.80282 (97112805)
226539.00	5363924.00	1.78218 (97062701)	226369.00	5364086.00	2.01911 (97051504)
226246.00	5364203.00	2.18759 (97051504)	226148.00	5364294.00	2.11901 (97051504)
226060.00	5364257.00	1.99393 (97051504)	225988.00	5364243.00	1.98699 (97090103)
225939.00	5364228.00	2.10695 (97010401)	225848.00	5364189.00	2.37258 (97091405)
225748.00	5364140.00	2.79358 (97081923)	225660.00	5364096.00	3.55266 (97112307)
225579.00	5364037.00	4.09408 (97112307)	225528.00	5363987.00	4.48770 (97082023)
225484.00	5363930.00	4.54894 (97010319)	225452.00	5363880.00	4.67530 (97060401)
225401.00	5363792.00	4.99875 (97070202)	225357.00	5363722.00	5.27308 (97060122)
225317.00	5363668.00	5.44752 (97110703)	225278.00	5363624.00	5.51265 (97071421)
225252.00	5363603.00	5.43017 (97032522)			

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)
223920.00	5361812.00	.86013 (98020923)	224120.00	5361812.00	.86529 (98020923)
224320.00	5361812.00	.91804 (98062124)	224520.00	5361812.00	.95397 (98051623)
224720.00	5361812.00	.77825 (98051623)	224920.00	5361812.00	1.05013 (98050801)
225120.00	5361812.00	1.07565 (98092522)	225320.00	5361812.00	1.10765 (98060621)
225520.00	5361812.00	.64118 (98053104)	225720.00	5361812.00	.89638 (98091020)
225920.00	5361812.00	.76834 (98110622)	226120.00	5361812.00	.54444 (98020922)
226320.00	5361812.00	.84308 (98110523)	226520.00	5361812.00	.74196 (98110523)
226720.00	5361812.00	.78707 (98020406)	226920.00	5361812.00	1.06255 (98092702)
227120.00	5361812.00	1.22150 (98092702)	227320.00	5361812.00	1.06582 (98022206)
227520.00	5361812.00	1.03083 (98110601)	227720.00	5361812.00	1.13090 (98110601)
227920.00	5361812.00	.67673 (98100819)	223920.00	5362012.00	1.18783 (98020807)
224120.00	5362012.00	.93212 (98020807)	224320.00	5362012.00	.93888 (98020923)
224520.00	5362012.00	.99529 (98062124)	224720.00	5362012.00	1.03964 (98051623)
224920.00	5362012.00	1.07448 (98050801)	225120.00	5362012.00	1.18053 (98092522)
225320.00	5362012.00	1.26670 (98060621)	225520.00	5362012.00	.69954 (98060621)
225720.00	5362012.00	.98954 (98091020)	225920.00	5362012.00	.77622 (98110622)
226120.00	5362012.00	.59460 (98112917)	226320.00	5362012.00	.92776 (98110523)
226520.00	5362012.00	.80579 (98020406)	226720.00	5362012.00	1.07850 (98092702)
226920.00	5362012.00	1.28683 (98092702)	227120.00	5362012.00	1.27153 (98022206)
227320.00	5362012.00	1.13750 (98110601)	227520.00	5362012.00	1.21816 (98110601)
227720.00	5362012.00	.67779 (98100819)	227920.00	5362012.00	.55861 (98060923)
223920.00	5362212.00	1.19017 (98020807)	224120.00	5362212.00	1.25241 (98020807)
224320.00	5362212.00	1.05281 (98020807)	224520.00	5362212.00	1.03753 (98062124)
224720.00	5362212.00	1.10085 (98051623)	224920.00	5362212.00	1.13738 (98051623)
225120.00	5362212.00	1.25433 (98050801)	225320.00	5362212.00	1.36570 (98060621)
225520.00	5362212.00	.91712 (98060621)	225720.00	5362212.00	1.10305 (98091020)
225920.00	5362212.00	.78533 (98110622)	226120.00	5362212.00	.95073 (98110523)
226320.00	5362212.00	.93038 (98110523)	226520.00	5362212.00	1.01917 (98092702)
226720.00	5362212.00	1.34256 (98092702)	226920.00	5362212.00	1.46776 (98022206)
227120.00	5362212.00	1.26199 (98110601)	227320.00	5362212.00	1.31940 (98110601)
227520.00	5362212.00	.65395 (98100819)	227720.00	5362212.00	.63245 (98060923)
227920.00	5362212.00	.59905 (98122902)	223920.00	5362412.00	.97196 (98060824)
224120.00	5362412.00	1.18182 (98020807)	224320.00	5362412.00	1.29456 (98020807)
224520.00	5362412.00	1.17067 (98020807)	224720.00	5362412.00	1.16514 (98062124)
224920.00	5362412.00	1.24412 (98051623)	225120.00	5362412.00	1.33823 (98050801)
225320.00	5362412.00	1.46827 (98060621)	225520.00	5362412.00	1.36314 (98060621)
225720.00	5362412.00	1.24833 (98091020)	225920.00	5362412.00	.80415 (98110622)
226120.00	5362412.00	1.16399 (98110523)	226320.00	5362412.00	1.04997 (98020406)
226520.00	5362412.00	1.46387 (98092702)	226720.00	5362412.00	1.64523 (98022206)

226920.00 5362412.00 1.42944 (98110601)

227120.00 5362412.00 1.44288 (98110601)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)
227320.00	5362412.00	.68288 (98060923)	227520.00	5362412.00	.68933 (98122902)
227720.00	5362412.00	.92203 (98110521)	227920.00	5362412.00	1.20958 (98110521)
223920.00	5362612.00	.93481 (98062101)	224120.00	5362612.00	1.06285 (98060824)
224320.00	5362612.00	1.16132 (98020807)	224520.00	5362612.00	1.31415 (98020807)
224720.00	5362612.00	1.26504 (98020807)	224920.00	5362612.00	1.33447 (98062124)
225120.00	5362612.00	1.44841 (98051623)	225320.00	5362612.00	1.61109 (98092522)
225520.00	5362612.00	1.81293 (98060621)	225720.00	5362612.00	1.44959 (98091020)
225920.00	5362612.00	1.03515 (98110523)	226120.00	5362612.00	1.23101 (98110523)
226320.00	5362612.00	1.68970 (98092702)	226520.00	5362612.00	1.93870 (98092702)
226720.00	5362612.00	1.66851 (98110601)	226920.00	5362612.00	1.60232 (98110601)
227120.00	5362612.00	.81359 (98060923)	227320.00	5362612.00	1.09205 (98110521)
227520.00	5362612.00	1.40826 (98110521)	227720.00	5362612.00	1.34024 (98110521)
227920.00	5362612.00	.89461 (98110521)	223920.00	5362812.00	1.09059 (98062101)
224120.00	5362812.00	1.14255 (98062101)	224320.00	5362812.00	1.17916 (98062101)
224520.00	5362812.00	1.26612 (98060824)	224720.00	5362812.00	1.35519 (98060824)
224920.00	5362812.00	1.45584 (98101720)	225120.00	5362812.00	1.59506 (98062124)
225320.00	5362812.00	1.80468 (98050801)	225520.00	5362812.00	2.12466 (98060621)
225720.00	5362812.00	1.77295 (98091020)	225920.00	5362812.00	1.63945 (98110523)
226120.00	5362812.00	2.07105 (98092702)	226320.00	5362812.00	2.15198 (98092702)
226520.00	5362812.00	2.04820 (98110601)	226720.00	5362812.00	1.81619 (98110601)
226920.00	5362812.00	1.35194 (98110521)	227120.00	5362812.00	1.70510 (98110521)
227320.00	5362812.00	1.58313 (98110521)	227520.00	5362812.00	.99455 (98110521)
227720.00	5362812.00	.87836 (98020906)	227920.00	5362812.00	.89864 (98020906)
223920.00	5363012.00	1.16539 (98050602)	224120.00	5363012.00	1.23366 (98050602)
224320.00	5363012.00	1.30399 (98050602)	224520.00	5363012.00	1.39020 (98062101)
224720.00	5363012.00	1.49365 (98062101)	224920.00	5363012.00	1.62161 (98060824)
225120.00	5363012.00	1.81510 (98060824)	225320.00	5363012.00	2.10114 (98051623)
225520.00	5363012.00	2.60932 (98060621)	225720.00	5363012.00	2.41275 (98110622)
225920.00	5363012.00	2.88670 (98092702)	226120.00	5363012.00	2.40252 (98092702)
226320.00	5363012.00	2.72327 (98110601)	226520.00	5363012.00	2.13813 (98110601)
226720.00	5363012.00	2.18407 (98110521)	226920.00	5363012.00	1.96950 (98110521)
227120.00	5363012.00	1.17162 (98020906)	227320.00	5363012.00	1.14860 (98020906)
227520.00	5363012.00	1.27322 (98070123)	227720.00	5363012.00	1.39017 (98070123)
227920.00	5363012.00	1.36016 (98070123)	223920.00	5363212.00	1.25070 (98062722)
224120.00	5363212.00	1.34629 (98062722)	224320.00	5363212.00	1.43940 (98062722)
224520.00	5363212.00	1.55015 (98062722)	224720.00	5363212.00	1.69103 (98051121)
224920.00	5363212.00	1.87586 (98050602)	225120.00	5363212.00	2.16813 (98050602)
225320.00	5363212.00	2.62924 (98062101)	225520.00	5363212.00	3.55881 (98060621)
225920.00	5363212.00	3.81184 (98092702)	226120.00	5363212.00	4.14693 (98110601)
226320.00	5363212.00	3.27914 (98110521)	226520.00	5363212.00	2.73967 (98110521)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
226720.00	5363212.00	2.13064 (98070123)	226920.00	5363212.00	2.12627 (98070123)
227120.00	5363212.00	1.92561 (98070123)	227320.00	5363212.00	1.57623 (98070123)
227520.00	5363212.00	1.21982 (98070123)	227720.00	5363212.00	.90616 (98070123)
227920.00	5363212.00	.67034 (98020619)	223920.00	5363412.00	1.36195 (98051002)
224120.00	5363412.00	1.48523 (98051002)	224320.00	5363412.00	1.61824 (98051002)
224520.00	5363412.00	1.77508 (98051002)	224720.00	5363412.00	1.98380 (98051002)
224920.00	5363412.00	2.28952 (98051002)	225120.00	5363412.00	2.79623 (98051002)
225320.00	5363412.00	3.78328 (98051002)	226320.00	5363412.00	3.82198 (98070123)
226520.00	5363412.00	2.42196 (98070123)	226720.00	5363412.00	1.65675 (98070123)
226920.00	5363412.00	1.35044 (98050724)	227120.00	5363412.00	1.21106 (98050724)
227320.00	5363412.00	1.09841 (98050724)	227520.00	5363412.00	1.00403 (98050724)
227720.00	5363412.00	.92476 (98050724)	227920.00	5363412.00	.85756 (98050724)
223920.00	5363612.00	1.50451 (98050924)	224120.00	5363612.00	1.64842 (98050924)
224320.00	5363612.00	1.81884 (98050924)	224520.00	5363612.00	2.06639 (98060724)
224720.00	5363612.00	2.40818 (98060724)	224920.00	5363612.00	2.96225 (98110803)
225120.00	5363612.00	4.02398 (98051221)	226520.00	5363612.00	2.28868 (98041524)
226720.00	5363612.00	1.98046 (98062103)	226920.00	5363612.00	1.77138 (98062103)
227120.00	5363612.00	1.61621 (98062103)	227320.00	5363612.00	1.49113 (98062103)
227520.00	5363612.00	1.38652 (98062103)	227720.00	5363612.00	1.29601 (98062103)
227920.00	5363612.00	1.21532 (98062103)	223920.00	5363812.00	1.57447 (98051221)
224120.00	5363812.00	1.65865 (98051221)	224320.00	5363812.00	1.67302 (98051221)
224520.00	5363812.00	1.64888 (98051221)	224720.00	5363812.00	2.25998 (98060901)
224920.00	5363812.00	2.78393 (98060901)	225120.00	5363812.00	3.28268 (98051521)
225320.00	5363812.00	4.17910 (98070923)	226720.00	5363812.00	1.70479 (98081921)
226920.00	5363812.00	1.52772 (98081921)	227120.00	5363812.00	1.34715 (98081921)
227320.00	5363812.00	1.19789 (98041524)	227520.00	5363812.00	1.16645 (98041524)
227720.00	5363812.00	1.13516 (98041524)	227920.00	5363812.00	1.10426 (98041524)
223920.00	5364012.00	1.00178 (98012022)	224120.00	5364012.00	1.43880 (98060901)
224320.00	5364012.00	1.85456 (98060901)	224520.00	5364012.00	2.00410 (98051521)
224720.00	5364012.00	2.19017 (98021123)	224920.00	5364012.00	2.42585 (98070923)
225120.00	5364012.00	2.76391 (98022319)	225320.00	5364012.00	3.25609 (98110805)
225520.00	5364012.00	4.23608 (98070203)	226520.00	5364012.00	2.72137 (98072104)
226720.00	5364012.00	1.70238 (98072104)	226920.00	5364012.00	1.42712 (98061024)
227120.00	5364012.00	1.33496 (98081921)	227320.00	5364012.00	1.24522 (98081921)
227520.00	5364012.00	1.15911 (98081921)	227720.00	5364012.00	1.03273 (98081921)
227920.00	5364012.00	.76948 (98081921)	223920.00	5364212.00	1.52114 (98060723)
224120.00	5364212.00	1.62095 (98051521)	224320.00	5364212.00	1.72984 (98021123)
224520.00	5364212.00	1.83001 (98070923)	224720.00	5364212.00	1.92067 (98022319)
224920.00	5364212.00	2.15340 (98110805)	225120.00	5364212.00	2.31018 (98020904)
225320.00	5364212.00	2.77396 (98041603)	225520.00	5364212.00	2.95284 (98091124)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
225720.00	5364212.00	2.64444 (98042004)	226320.00	5364212.00	2.70763 (98072104)
226520.00	5364212.00	2.82211 (98072104)	226720.00	5364212.00	2.74127 (98072104)
226920.00	5364212.00	2.00617 (98072104)	227120.00	5364212.00	1.11134 (98061024)
227320.00	5364212.00	1.14798 (98061024)	227520.00	5364212.00	1.10739 (98061024)
227720.00	5364212.00	1.04905 (98081921)	227920.00	5364212.00	1.02025 (98081921)
223920.00	5364412.00	1.44537 (98021123)	224120.00	5364412.00	1.47391 (98070923)
224320.00	5364412.00	1.58019 (98070923)	224520.00	5364412.00	1.72085 (98022319)
224720.00	5364412.00	1.84683 (98110805)	224920.00	5364412.00	1.86879 (98020904)
225120.00	5364412.00	2.17287 (98081023)	225320.00	5364412.00	2.44819 (98041205)
225520.00	5364412.00	2.17299 (98041205)	225720.00	5364412.00	2.16090 (98042004)
225920.00	5364412.00	1.84318 (98070122)	226120.00	5364412.00	1.62168 (98062301)
226320.00	5364412.00	1.48013 (98061102)	226520.00	5364412.00	2.39817 (98072104)
226720.00	5364412.00	2.78322 (98072104)	226920.00	5364412.00	2.74956 (98072104)
227120.00	5364412.00	2.20640 (98072104)	227320.00	5364412.00	1.11815 (98072104)
227520.00	5364412.00	.75370 (98061024)	227720.00	5364412.00	.91264 (98061024)
227920.00	5364412.00	.95476 (98061024)	223920.00	5364612.00	1.36432 (98070923)
224120.00	5364612.00	1.37369 (98022319)	224320.00	5364612.00	1.47504 (98022319)
224520.00	5364612.00	1.58899 (98110805)	224720.00	5364612.00	1.59762 (98020904)
224920.00	5364612.00	1.79796 (98020120)	225120.00	5364612.00	1.87122 (98012819)
225320.00	5364612.00	2.61760 (98041205)	225520.00	5364612.00	1.91606 (98041922)
225720.00	5364612.00	1.86880 (98042004)	225920.00	5364612.00	1.62013 (98070122)
226120.00	5364612.00	1.47554 (98020408)	226320.00	5364612.00	1.35578 (98081922)
226520.00	5364612.00	1.25976 (98042721)	226720.00	5364612.00	1.97805 (98072104)
226920.00	5364612.00	2.66162 (98072104)	227120.00	5364612.00	2.73891 (98072104)
227320.00	5364612.00	2.33893 (98072104)	227520.00	5364612.00	1.42742 (98072104)
227720.00	5364612.00	.75809 (98041323)	227920.00	5364612.00	.61504 (98022207)
223920.00	5364812.00	1.30312 (98022319)	224120.00	5364812.00	1.31746 (98110805)
224320.00	5364812.00	1.30665 (98110805)	224520.00	5364812.00	1.40702 (98020904)
224720.00	5364812.00	1.57590 (98020120)	224920.00	5364812.00	1.63566 (98070203)
225120.00	5364812.00	1.93843 (98041205)	225320.00	5364812.00	2.44722 (98041205)
225520.00	5364812.00	1.76202 (98041922)	225720.00	5364812.00	1.65775 (98042004)
225920.00	5364812.00	1.45485 (98101621)	226120.00	5364812.00	1.36517 (98020408)
226320.00	5364812.00	1.25984 (98062301)	226520.00	5364812.00	1.18175 (98061102)
226720.00	5364812.00	1.10919 (98011606)	226920.00	5364812.00	1.58699 (98072104)
227120.00	5364812.00	2.44732 (98072104)	227320.00	5364812.00	2.68800 (98072104)
227520.00	5364812.00	2.42021 (98072104)	227720.00	5364812.00	1.67334 (98072104)
227920.00	5364812.00	.83407 (98072104)	223920.00	5365012.00	1.23931 (98110805)
224120.00	5365012.00	1.00651 (98110805)	224320.00	5365012.00	1.26655 (98020904)
224520.00	5365012.00	1.39931 (98020120)	224720.00	5365012.00	1.41988 (98041603)
224920.00	5365012.00	1.46104 (98021019)	225120.00	5365012.00	2.29400 (98041205)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
225320.00	5365012.00	2.02711 (98041205)	225520.00	5365012.00	1.59412 (98041922)
225720.00	5365012.00	1.49131 (98033121)	225920.00	5365012.00	1.36547 (98101621)
226120.00	5365012.00	1.27316 (98010601)	226320.00	5365012.00	1.17689 (98062301)
226520.00	5365012.00	1.11056 (98081922)	226720.00	5365012.00	1.05263 (98021021)
226920.00	5365012.00	1.00144 (98011606)	227120.00	5365012.00	1.27169 (98072104)
227320.00	5365012.00	2.17841 (98072104)	227520.00	5365012.00	2.58202 (98072104)
227720.00	5365012.00	2.45565 (98072104)	227920.00	5365012.00	1.86205 (98072104)
223920.00	5365212.00	.77708 (98060803)	224120.00	5365212.00	1.16089 (98020904)
224320.00	5365212.00	1.26273 (98020120)	224520.00	5365212.00	1.29860 (98041603)
224720.00	5365212.00	1.32028 (98012819)	224920.00	5365212.00	1.41099 (98041205)
225120.00	5365212.00	2.37963 (98041205)	225320.00	5365212.00	1.52900 (98041205)
225520.00	5365212.00	1.43567 (98051402)	225720.00	5365212.00	1.36503 (98033121)
225920.00	5365212.00	1.27947 (98101621)	226120.00	5365212.00	1.19186 (98070122)
226320.00	5365212.00	1.10250 (98020408)	226520.00	5365212.00	1.04890 (98062301)
226720.00	5365212.00	1.00193 (98061102)	226920.00	5365212.00	.96011 (98042721)
227120.00	5365212.00	.92290 (98011606)	227320.00	5365212.00	1.03052 (98072104)
227520.00	5365212.00	1.90251 (98072104)	227720.00	5365212.00	2.42509 (98072104)
227920.00	5365212.00	2.44289 (98072104)	223920.00	5365412.00	1.07284 (98020904)
224120.00	5365412.00	1.15606 (98020120)	224320.00	5365412.00	1.17315 (98041603)
224520.00	5365412.00	1.16788 (98012819)	224720.00	5365412.00	1.21808 (98011624)
224920.00	5365412.00	1.84695 (98041205)	225120.00	5365412.00	2.20175 (98041205)
225320.00	5365412.00	1.06959 (98041205)	225520.00	5365412.00	1.31080 (98051402)
225720.00	5365412.00	1.25984 (98033121)	225920.00	5365412.00	1.19323 (98101621)
226120.00	5365412.00	1.10468 (98070122)	226320.00	5365412.00	1.06108 (98020408)
226520.00	5365412.00	1.00392 (98062301)	226720.00	5365412.00	.96029 (98081922)
226920.00	5365412.00	.91862 (98061102)	227120.00	5365412.00	.88439 (98042721)
227320.00	5365412.00	.86254 (98011606)	227520.00	5365412.00	.84833 (98072104)
227720.00	5365412.00	1.64583 (98072104)	227920.00	5365412.00	2.23436 (98072104)
223920.00	5365612.00	1.06622 (98020120)	224120.00	5365612.00	1.08552 (98081023)
224320.00	5365612.00	1.12021 (98070203)	224520.00	5365612.00	1.13168 (98021019)
224720.00	5365612.00	1.15579 (98091501)	224920.00	5365612.00	2.09600 (98041205)
225120.00	5365612.00	1.85532 (98041205)	225320.00	5365612.00	.81488 (98041923)
225520.00	5365612.00	1.20863 (98100901)	225720.00	5365612.00	1.17235 (98033121)
225920.00	5365612.00	1.12137 (98041324)	226120.00	5365612.00	.96710 (98070122)
226320.00	5365612.00	.99804 (98010601)	226520.00	5365612.00	.91350 (98062301)
226720.00	5365612.00	.90953 (98062301)	226920.00	5365612.00	.88861 (98070201)
227120.00	5365612.00	.86164 (98021021)	227320.00	5365612.00	.79987 (98042721)
227520.00	5365612.00	.81149 (98011606)	227720.00	5365612.00	.77462 (98060704)
227920.00	5365612.00	1.42053 (98072104)	223920.00	5365812.00	1.02409 (98081023)
224120.00	5365812.00	1.03557 (98070203)	224320.00	5365812.00	1.06336 (98012819)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
224520.00	5365812.00	1.07928 (98011624)	224720.00	5365812.00	1.41845 (98041205)
224920.00	5365812.00	2.12523 (98041205)	225120.00	5365812.00	1.45396 (98041205)
225320.00	5365812.00	.85663 (98041922)	225520.00	5365812.00	1.12881 (98100901)
225720.00	5365812.00	1.09947 (98033121)	225920.00	5365812.00	1.04691 (98041324)
226120.00	5365812.00	.85121 (98101621)	226320.00	5365812.00	.97068 (98010601)
226520.00	5365812.00	.91047 (98020408)	226720.00	5365812.00	.89364 (98062301)
226920.00	5365812.00	.86169 (98081922)	227120.00	5365812.00	.83415 (98061102)
227320.00	5365812.00	.80969 (98042721)	227520.00	5365812.00	.69959 (98042721)
227720.00	5365812.00	.76833 (98011606)	227920.00	5365812.00	.72809 (98060704)
225503.00	5362713.00	1.93704 (98060621)	224887.00	5363420.00	2.24583 (98051002)
224770.00	5363469.00	2.14408 (98051002)	225257.00	5364124.00	2.81352 (98020904)
225468.00	5364207.00	2.79310 (98091501)	225252.00	5363603.00	5.29936 (98051221)
225695.00	5363192.00	5.39732 (98060621)	226208.00	5363365.00	4.58374 (98110521)
226364.00	5363533.00	2.99965 (98071702)	226639.00	5363829.00	1.79465 (98081921)
226539.00	5363924.00	2.21747 (98072104)	226369.00	5364086.00	2.82625 (98072104)
226246.00	5364203.00	2.54096 (98072104)	226148.00	5364294.00	1.72998 (98062301)
226060.00	5364257.00	1.85256 (98062301)	225988.00	5364243.00	1.99009 (98020408)
225939.00	5364228.00	2.10695 (98010601)	225848.00	5364189.00	2.34647 (98070122)
225748.00	5364140.00	2.78557 (98042004)	225660.00	5364096.00	3.42459 (98041004)
225579.00	5364037.00	4.06664 (98091124)	225528.00	5363987.00	4.48770 (98070203)
225484.00	5363930.00	4.55249 (98020120)	225452.00	5363880.00	4.67530 (98110805)
225401.00	5363792.00	4.99484 (98070923)	225357.00	5363722.00	5.27456 (98051521)
225317.00	5363668.00	5.44752 (98060901)	225278.00	5363624.00	5.45074 (98060901)
225252.00	5363603.00	5.29936 (98051221)			

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
223920.00	5361812.00	.85770 (99090804)	224120.00	5361812.00	.74090 (99090804)
224320.00	5361812.00	.82059 (99062822)	224520.00	5361812.00	.95429 (99062822)
224720.00	5361812.00	.87756 (99062822)	224920.00	5361812.00	.70000 (99042822)
225120.00	5361812.00	1.09708 (99111921)	225320.00	5361812.00	1.02123 (99111921)
225520.00	5361812.00	.76060 (99081920)	225720.00	5361812.00	1.17842 (99032903)
225920.00	5361812.00	1.02803 (99032903)	226120.00	5361812.00	1.36521 (99092823)
226320.00	5361812.00	1.30878 (99121603)	226520.00	5361812.00	1.01289 (99121603)
226720.00	5361812.00	1.20237 (99082421)	226920.00	5361812.00	1.15667 (99110903)
227120.00	5361812.00	1.08837 (99110903)	227320.00	5361812.00	1.20140 (99062402)
227520.00	5361812.00	.78085 (99110904)	227720.00	5361812.00	.65054 (99051320)
227920.00	5361812.00	.74276 (99020419)	223920.00	5362012.00	.88358 (99090804)
224120.00	5362012.00	.91996 (99090804)	224320.00	5362012.00	.83902 (99090804)
224520.00	5362012.00	.97806 (99062822)	224720.00	5362012.00	1.04376 (99062822)
224920.00	5362012.00	.77026 (99062822)	225120.00	5362012.00	1.09176 (99111921)
225320.00	5362012.00	1.24582 (99111921)	225520.00	5362012.00	.85413 (99081920)
225720.00	5362012.00	1.34412 (99032903)	225920.00	5362012.00	1.04543 (99032903)
226120.00	5362012.00	1.37081 (99092823)	226320.00	5362012.00	1.35783 (99121603)
226520.00	5362012.00	1.27617 (99082421)	226720.00	5362012.00	1.33198 (99082421)
226920.00	5362012.00	1.33194 (99110903)	227120.00	5362012.00	1.29270 (99062402)
227320.00	5362012.00	.85484 (99110904)	227520.00	5362012.00	.72002 (99051320)
227720.00	5362012.00	.98440 (99020419)	227920.00	5362012.00	1.16150 (99020419)
223920.00	5362212.00	.60831 (99090804)	224120.00	5362212.00	.95210 (99090804)
224320.00	5362212.00	.99824 (99090804)	224520.00	5362212.00	.96419 (99090804)
224720.00	5362212.00	1.09927 (99062822)	224920.00	5362212.00	1.15811 (99062822)
225120.00	5362212.00	.98078 (99111921)	225320.00	5362212.00	1.36587 (99111921)
225520.00	5362212.00	.94852 (99081920)	225720.00	5362212.00	1.54451 (99032903)
225920.00	5362212.00	1.40188 (99092823)	226120.00	5362212.00	1.52633 (99121603)
226320.00	5362212.00	1.33539 (99121603)	226520.00	5362212.00	1.42091 (99082421)
226720.00	5362212.00	1.45286 (99110903)	226920.00	5362212.00	1.38962 (99062402)
227120.00	5362212.00	1.03991 (99062402)	227320.00	5362212.00	.83102 (99020419)
227520.00	5362212.00	1.20636 (99020419)	227720.00	5362212.00	1.23263 (99050801)
227920.00	5362212.00	1.09933 (99050801)	223920.00	5362412.00	.94552 (99121417)
224120.00	5362412.00	.73728 (99121417)	224320.00	5362412.00	1.04536 (99090804)
224520.00	5362412.00	1.10456 (99090804)	224720.00	5362412.00	1.12294 (99090804)
224920.00	5362412.00	1.24345 (99062822)	225120.00	5362412.00	1.25753 (99062822)
225320.00	5362412.00	1.47431 (99111921)	225520.00	5362412.00	1.23556 (99111921)
225720.00	5362412.00	1.79477 (99032903)	225920.00	5362412.00	1.84971 (99092823)
226120.00	5362412.00	1.74446 (99121603)	226320.00	5362412.00	1.58198 (99082421)
226520.00	5362412.00	1.60612 (99082421)	226720.00	5362412.00	1.49988 (99062402)

226920.00 5362412.00 1.32563 (99062402) 227120.00 5362412.00 1.16665 (99020419)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
227320.00	5362412.00	1.42726 (99020419)	227520.00	5362412.00	1.38336 (99050801)
227720.00	5362412.00	1.24085 (99062422)	227920.00	5362412.00	1.26457 (99062801)
223920.00	5362612.00	1.02323 (99121417)	224120.00	5362612.00	1.06973 (99121417)
224320.00	5362612.00	1.09066 (99121417)	224520.00	5362612.00	1.17010 (99090804)
224720.00	5362612.00	1.24731 (99090804)	224920.00	5362612.00	1.32977 (99062822)
225120.00	5362612.00	1.44830 (99062822)	225320.00	5362612.00	1.59563 (99111921)
225520.00	5362612.00	1.78316 (99111921)	225720.00	5362612.00	2.13336 (99032903)
225920.00	5362612.00	2.15234 (99092823)	226120.00	5362612.00	1.81717 (99082421)
226320.00	5362612.00	1.82359 (99082421)	226520.00	5362612.00	1.87489 (99110903)
226720.00	5362612.00	1.67952 (99062402)	226920.00	5362612.00	1.48562 (99020419)
227120.00	5362612.00	1.63124 (99020419)	227320.00	5362612.00	1.40732 (99062422)
227520.00	5362612.00	1.45859 (99062801)	227720.00	5362612.00	1.22280 (99062801)
227920.00	5362612.00	.83126 (99090524)	223920.00	5362812.00	.72411 (99050222)
224120.00	5362812.00	1.11253 (99121417)	224320.00	5362812.00	1.19869 (99121417)
224520.00	5362812.00	1.27266 (99121417)	224720.00	5362812.00	1.34088 (99090804)
224920.00	5362812.00	1.45302 (99090804)	225120.00	5362812.00	1.59440 (99062822)
225320.00	5362812.00	1.79285 (99062822)	225520.00	5362812.00	2.12297 (99111921)
225720.00	5362812.00	2.65566 (99032903)	225920.00	5362812.00	2.47161 (99121603)
226120.00	5362812.00	2.09058 (99082421)	226320.00	5362812.00	2.33790 (99110903)
226520.00	5362812.00	2.11373 (99062402)	226720.00	5362812.00	1.93326 (99020419)
226920.00	5362812.00	1.86287 (99050801)	227120.00	5362812.00	1.74797 (99062422)
227320.00	5362812.00	1.47743 (99062801)	227520.00	5362812.00	1.01043 (99110905)
227720.00	5362812.00	.91543 (99110905)	227920.00	5362812.00	.77421 (99113019)
223920.00	5363012.00	1.03783 (99052122)	224120.00	5363012.00	.92709 (99052122)
224320.00	5363012.00	1.02144 (99121417)	224520.00	5363012.00	1.37273 (99121417)
224720.00	5363012.00	1.48683 (99121417)	224920.00	5363012.00	1.62864 (99121417)
225120.00	5363012.00	1.80531 (99090804)	225320.00	5363012.00	2.09936 (99062822)
225520.00	5363012.00	2.61023 (99111921)	225720.00	5363012.00	3.62939 (99032903)
225920.00	5363012.00	2.96209 (99121603)	226120.00	5363012.00	3.07559 (99082421)
226320.00	5363012.00	2.74337 (99062402)	226520.00	5363012.00	2.41984 (99020419)
226720.00	5363012.00	2.19808 (99062422)	226920.00	5363012.00	1.88883 (99062801)
227120.00	5363012.00	1.24154 (99110905)	227320.00	5363012.00	1.08199 (99113019)
227520.00	5363012.00	1.05696 (99113019)	227720.00	5363012.00	1.23667 (99042801)
227920.00	5363012.00	1.30978 (99042801)	223920.00	5363212.00	1.25070 (99052122)
224120.00	5363212.00	1.34629 (99052122)	224320.00	5363212.00	1.43940 (99052122)
224520.00	5363212.00	1.55015 (99052122)	224720.00	5363212.00	1.67829 (99052122)
224920.00	5363212.00	1.84756 (99121417)	225120.00	5363212.00	2.14948 (99121417)
225320.00	5363212.00	2.62548 (99121417)	225520.00	5363212.00	3.55638 (99111921)
225920.00	5363212.00	3.83207 (99082421)	226120.00	5363212.00	4.15087 (99062402)
226320.00	5363212.00	3.27638 (99062801)	226520.00	5363212.00	2.69984 (99062801)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
226720.00	5363212.00	1.95424 (99042801)	226920.00	5363212.00	2.02900 (99042801)
227120.00	5363212.00	1.93910 (99042801)	227320.00	5363212.00	1.68866 (99042801)
227520.00	5363212.00	1.37938 (99042801)	227720.00	5363212.00	1.08496 (99042801)
227920.00	5363212.00	.99723 (99082324)	223920.00	5363412.00	1.38236 (99060824)
224120.00	5363412.00	1.48606 (99060824)	224320.00	5363412.00	1.60942 (99060824)
224520.00	5363412.00	1.76439 (99060824)	224720.00	5363412.00	1.96979 (99060824)
224920.00	5363412.00	2.26860 (99060824)	225120.00	5363412.00	2.76379 (99060824)
225320.00	5363412.00	3.73778 (99060824)	226320.00	5363412.00	3.92382 (99042801)
226520.00	5363412.00	2.90528 (99082324)	226720.00	5363412.00	2.41248 (99082324)
226920.00	5363412.00	2.07272 (99082324)	227120.00	5363412.00	1.81188 (99082324)
227320.00	5363412.00	1.59529 (99082324)	227520.00	5363412.00	1.41124 (99082324)
227720.00	5363412.00	1.25633 (99082324)	227920.00	5363412.00	1.12142 (99082324)
223920.00	5363612.00	1.48158 (99090320)	224120.00	5363612.00	1.60965 (99090320)
224320.00	5363612.00	1.76466 (99090320)	224520.00	5363612.00	1.96061 (99090320)
224720.00	5363612.00	2.22610 (99090320)	224920.00	5363612.00	2.64008 (99090320)
225120.00	5363612.00	3.78369 (99092824)	226520.00	5363612.00	2.24991 (99073103)
226720.00	5363612.00	1.95025 (99073103)	226920.00	5363612.00	1.74331 (99073103)
227120.00	5363612.00	1.58893 (99073103)	227320.00	5363612.00	1.46668 (99073103)
227520.00	5363612.00	1.36521 (99073103)	227720.00	5363612.00	1.28153 (99073103)
227920.00	5363612.00	1.21154 (99073103)	223920.00	5363812.00	1.05705 (99092824)
224120.00	5363812.00	1.49686 (99092824)	224320.00	5363812.00	1.90600 (99092824)
224520.00	5363812.00	2.13673 (99092824)	224720.00	5363812.00	2.43413 (99091622)
224920.00	5363812.00	2.78393 (99090805)	225120.00	5363812.00	3.28887 (99081522)
225320.00	5363812.00	4.04868 (99092903)	226720.00	5363812.00	1.68577 (99050304)
226920.00	5363812.00	1.50345 (99050304)	227120.00	5363812.00	1.10866 (99050304)
227320.00	5363812.00	.88089 (99073023)	227520.00	5363812.00	.77766 (99040604)
227720.00	5363812.00	.75680 (99040604)	227920.00	5363812.00	.73619 (99040604)
223920.00	5364012.00	1.56254 (99091622)	224120.00	5364012.00	1.66188 (99091622)
224320.00	5364012.00	1.85456 (99090805)	224520.00	5364012.00	1.96013 (99081522)
224720.00	5364012.00	2.17406 (99081522)	224920.00	5364012.00	2.03827 (99092903)
225120.00	5364012.00	2.74568 (99092903)	225320.00	5364012.00	3.29239 (99061803)
225520.00	5364012.00	4.24860 (99062423)	226520.00	5364012.00	1.68208 (99062802)
226720.00	5364012.00	1.66950 (99072004)	226920.00	5364012.00	1.49067 (99072004)
227120.00	5364012.00	1.32576 (99050304)	227320.00	5364012.00	1.22659 (99050304)
227520.00	5364012.00	1.09241 (99050304)	227720.00	5364012.00	.76798 (99050304)
227920.00	5364012.00	.71495 (99073023)	223920.00	5364212.00	1.48846 (99090805)
224120.00	5364212.00	1.60598 (99081522)	224320.00	5364212.00	1.66382 (99081522)
224520.00	5364212.00	1.36781 (99081522)	224720.00	5364212.00	1.77535 (99092903)
224920.00	5364212.00	2.18330 (99092903)	225120.00	5364212.00	2.96166 (99112407)
225320.00	5364212.00	3.58941 (99112407)	225520.00	5364212.00	2.95560 (99081601)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
225720.00	5364212.00	2.64444 (99050903)	226320.00	5364212.00	5.36064 (99090505)
226520.00	5364212.00	2.79846 (99090505)	226720.00	5364212.00	1.55854 (99072004)
226920.00	5364212.00	1.65366 (99072004)	227120.00	5364212.00	1.61786 (99072004)
227320.00	5364212.00	1.35191 (99072004)	227520.00	5364212.00	1.10739 (99041923)
227720.00	5364212.00	1.05820 (99050304)	227920.00	5364212.00	.99469 (99050304)
223920.00	5364412.00	1.32465 (99081522)	224120.00	5364412.00	.98670 (99081522)
224320.00	5364412.00	1.23154 (99092903)	224520.00	5364412.00	1.63527 (99092903)
224720.00	5364412.00	1.78430 (99092903)	224920.00	5364412.00	2.32094 (99112407)
225120.00	5364412.00	3.39228 (99112407)	225320.00	5364412.00	2.53707 (99031406)
225520.00	5364412.00	2.37461 (99120105)	225720.00	5364412.00	2.16090 (99050903)
225920.00	5364412.00	1.84318 (99051422)	226120.00	5364412.00	5.51342 (99090505)
226320.00	5364412.00	5.73047 (99090505)	226520.00	5364412.00	4.66616 (99090505)
226720.00	5364412.00	1.87180 (99090505)	226920.00	5364412.00	1.19342 (99072004)
227120.00	5364412.00	1.50628 (99072004)	227320.00	5364412.00	1.60934 (99072004)
227520.00	5364412.00	1.52910 (99072004)	227720.00	5364412.00	1.23110 (99072004)
227920.00	5364412.00	.95859 (99062802)	223920.00	5364612.00	.90957 (99042821)
224120.00	5364612.00	1.22130 (99092903)	224320.00	5364612.00	1.50667 (99092903)
224520.00	5364612.00	1.46866 (99100523)	224720.00	5364612.00	1.71254 (99061803)
224920.00	5364612.00	3.15428 (99112407)	225120.00	5364612.00	3.02826 (99112407)
225320.00	5364612.00	2.18788 (99031406)	225520.00	5364612.00	2.04514 (99120105)
225720.00	5364612.00	1.86880 (99050903)	225920.00	5364612.00	1.62013 (99051422)
226120.00	5364612.00	2.81147 (99090505)	226320.00	5364612.00	5.60315 (99090505)
226520.00	5364612.00	5.54808 (99090505)	226720.00	5364612.00	3.86838 (99090505)
226920.00	5364612.00	1.20648 (99090505)	227120.00	5364612.00	.93006 (99082422)
227320.00	5364612.00	1.18031 (99072004)	227520.00	5364612.00	1.45578 (99072004)
227720.00	5364612.00	1.53964 (99072004)	227920.00	5364612.00	1.42399 (99072004)
223920.00	5364812.00	1.19777 (99092903)	224120.00	5364812.00	1.35493 (99092903)
224320.00	5364812.00	1.34180 (99100523)	224520.00	5364812.00	1.48826 (99061803)
224720.00	5364812.00	2.72778 (99112407)	224920.00	5364812.00	3.21242 (99112407)
225120.00	5364812.00	2.41487 (99031406)	225320.00	5364812.00	1.71911 (99053024)
225520.00	5364812.00	1.79191 (99092805)	225720.00	5364812.00	1.66413 (99040602)
225920.00	5364812.00	1.45485 (99013102)	226120.00	5364812.00	1.30333 (99051422)
226320.00	5364812.00	4.00540 (99090505)	226520.00	5364812.00	5.63238 (99090505)
226720.00	5364812.00	5.14295 (99090505)	226920.00	5364812.00	3.03365 (99090505)
227120.00	5364812.00	1.00569 (99060404)	227320.00	5364812.00	.85432 (99060404)
227520.00	5364812.00	.86510 (99082422)	227720.00	5364812.00	1.16885 (99072004)
227920.00	5364812.00	1.40106 (99072004)	223920.00	5365012.00	1.14813 (99092903)
224120.00	5365012.00	1.24474 (99100523)	224320.00	5365012.00	1.31929 (99090803)
224520.00	5365012.00	2.16562 (99112407)	224720.00	5365012.00	3.14775 (99112407)
224920.00	5365012.00	2.14680 (99112407)	225120.00	5365012.00	2.11491 (99031406)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
225320.00	5365012.00	1.57768 (99081601)	225520.00	5365012.00	1.56726 (99092805)
225720.00	5365012.00	1.50488 (99040602)	225920.00	5365012.00	1.36547 (99013102)
226120.00	5365012.00	1.26650 (99051422)	226320.00	5365012.00	1.50833 (99072204)
226520.00	5365012.00	4.67691 (99090505)	226720.00	5365012.00	5.55257 (99090505)
226920.00	5365012.00	4.56358 (99090505)	227120.00	5365012.00	2.28731 (99090505)
227320.00	5365012.00	.92612 (99060404)	227520.00	5365012.00	.79908 (99060404)
227720.00	5365012.00	.60928 (99082422)	227920.00	5365012.00	.83753 (99072004)
223920.00	5365212.00	1.16558 (99100523)	224120.00	5365212.00	1.20924 (99090803)
224320.00	5365212.00	1.61948 (99112407)	224520.00	5365212.00	2.89350 (99112407)
224720.00	5365212.00	2.60265 (99112407)	224920.00	5365212.00	2.25006 (99031406)
225120.00	5365212.00	1.49812 (99031406)	225320.00	5365212.00	1.42176 (99072724)
225520.00	5365212.00	1.38745 (99082201)	225720.00	5365212.00	1.37224 (99040602)
225920.00	5365212.00	1.27947 (99013102)	226120.00	5365212.00	1.19186 (99051422)
226320.00	5365212.00	1.12498 (99072204)	226520.00	5365212.00	2.52568 (99090505)
226720.00	5365212.00	5.03444 (99090505)	226920.00	5365212.00	5.31600 (99090505)
227120.00	5365212.00	3.88588 (99090505)	227320.00	5365212.00	1.69521 (99090505)
227520.00	5365212.00	.86501 (99060404)	227720.00	5365212.00	.75330 (99060404)
227920.00	5365212.00	.54692 (99120302)	223920.00	5365412.00	1.11952 (99090803)
224120.00	5365412.00	1.17698 (99112407)	224320.00	5365412.00	2.49974 (99112407)
224520.00	5365412.00	2.79187 (99112407)	224720.00	5365412.00	1.88989 (99031406)
224920.00	5365412.00	2.02219 (99031406)	225120.00	5365412.00	1.29250 (99053024)
225320.00	5365412.00	1.20653 (99120105)	225520.00	5365412.00	1.29543 (99082201)
225720.00	5365412.00	1.25885 (99040602)	225920.00	5365412.00	1.19323 (99013102)
226120.00	5365412.00	1.10468 (99051422)	226320.00	5365412.00	.90249 (99051422)
226520.00	5365412.00	1.40860 (99072204)	226720.00	5365412.00	3.39955 (99090505)
226920.00	5365412.00	5.18152 (99090505)	227120.00	5365412.00	4.92440 (99090505)
227320.00	5365412.00	3.19865 (99090505)	227520.00	5365412.00	1.25905 (99090505)
227720.00	5365412.00	.81367 (99060404)	227920.00	5365412.00	.71436 (99060404)
223920.00	5365612.00	1.06622 (99092904)	224120.00	5365612.00	2.05665 (99112407)
224320.00	5365612.00	2.75800 (99112407)	224520.00	5365612.00	1.99131 (99112407)
224720.00	5365612.00	2.06968 (99031406)	224920.00	5365612.00	1.53634 (99031406)
225120.00	5365612.00	1.15631 (99081601)	225320.00	5365612.00	1.19675 (99120105)
225520.00	5365612.00	1.20863 (99082201)	225720.00	5365612.00	1.16239 (99040602)
225920.00	5365612.00	1.10900 (99050221)	226120.00	5365612.00	.96710 (99051422)
226320.00	5365612.00	.95682 (99051422)	226520.00	5365612.00	1.05795 (99072204)
226720.00	5365612.00	1.61961 (99090505)	226920.00	5365612.00	4.03066 (99090505)
227120.00	5365612.00	5.14675 (99090505)	227320.00	5365612.00	4.41731 (99090505)
227520.00	5365612.00	2.57931 (99090505)	227720.00	5365612.00	.94502 (99090505)
227920.00	5365612.00	.77051 (99060404)	223920.00	5365812.00	1.63810 (99112407)
224120.00	5365812.00	2.55692 (99112407)	224320.00	5365812.00	2.30474 (99112407)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
224520.00	5365812.00	1.71991 (99031406)	224720.00	5365812.00	1.91407 (99031406)
224920.00	5365812.00	1.11705 (99091621)	225120.00	5365812.00	1.13440 (99081601)
225320.00	5365812.00	1.14078 (99120105)	225520.00	5365812.00	1.12881 (99082201)
225720.00	5365812.00	1.08051 (99040602)	225920.00	5365812.00	1.05841 (99050221)
226120.00	5365812.00	.85121 (99013102)	226320.00	5365812.00	.96116 (99051422)
226520.00	5365812.00	.65912 (99072204)	226720.00	5365812.00	1.31475 (99072204)
226920.00	5365812.00	2.38523 (99090505)	227120.00	5365812.00	4.42885 (99090505)
227320.00	5365812.00	4.95100 (99090505)	227520.00	5365812.00	3.85268 (99090505)
227720.00	5365812.00	2.05772 (99090505)	227920.00	5365812.00	.71951 (99090505)
225503.00	5362713.00	1.93404 (99111921)	224887.00	5363420.00	2.23873 (99060824)
224770.00	5363469.00	2.16344 (99042724)	225257.00	5364124.00	3.24048 (99112407)
225468.00	5364207.00	2.78649 (99053024)	225252.00	5363603.00	5.42093 (99092824)
225695.00	5363192.00	5.59649 (99032903)	226208.00	5363365.00	4.57984 (99062801)
226364.00	5363533.00	2.99965 (99073103)	226639.00	5363829.00	1.77524 (99050304)
226539.00	5363924.00	1.78572 (99041923)	226369.00	5364086.00	3.72353 (99090505)
226246.00	5364203.00	5.68138 (99090505)	226148.00	5364294.00	5.72906 (99090505)
226060.00	5364257.00	5.70952 (99090505)	225988.00	5364243.00	5.60863 (99090505)
225939.00	5364228.00	5.30808 (99090505)	225848.00	5364189.00	3.73206 (99090505)
225748.00	5364140.00	2.80067 (99092801)	225660.00	5364096.00	3.42487 (99120217)
225579.00	5364037.00	4.09391 (99072724)	225528.00	5363987.00	4.48132 (99062423)
225484.00	5363930.00	4.55249 (99092904)	225452.00	5363880.00	4.67211 (99061803)
225401.00	5363792.00	4.97589 (99092903)	225357.00	5363722.00	5.27820 (99081522)
225317.00	5363668.00	5.44752 (99090805)	225278.00	5363624.00	5.51224 (99091622)
225252.00	5363603.00	5.42093 (99092824)			

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL ***
 INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
223920.00	5361812.00	.73333 (110402)	224120.00	5361812.00	.85038 (42021)
224320.00	5361812.00	.91780 (42021)	224520.00	5361812.00	1.53111 (101406)
224720.00	5361812.00	2.80658 (101406)	224920.00	5361812.00	2.79786 (101406)
225120.00	5361812.00	1.57630 (101406)	225320.00	5361812.00	1.02123 (90120)
225520.00	5361812.00	1.27665 (102503)	225720.00	5361812.00	1.35490 (12107)
225920.00	5361812.00	.83157 (72505)	226120.00	5361812.00	.54478 (72021)
226320.00	5361812.00	.87376 (63021)	226520.00	5361812.00	.79236 (82702)
226720.00	5361812.00	.80166 (82702)	226920.00	5361812.00	.74690 (11002)
227120.00	5361812.00	.79963 (11002)	227320.00	5361812.00	.62480 (82704)
227520.00	5361812.00	.77479 (82704)	227720.00	5361812.00	.66352 (100522)
227920.00	5361812.00	.74276 (32202)	223920.00	5362012.00	.89252 (110402)
224120.00	5362012.00	.85226 (110402)	224320.00	5362012.00	.94346 (42021)
224520.00	5362012.00	.99399 (42021)	224720.00	5362012.00	2.34139 (101406)
224920.00	5362012.00	3.03993 (101406)	225120.00	5362012.00	2.33583 (101406)
225320.00	5362012.00	1.24582 (90120)	225520.00	5362012.00	1.38680 (102503)
225720.00	5362012.00	1.48569 (12107)	225920.00	5362012.00	.87526 (72505)
226120.00	5362012.00	.78472 (63021)	226320.00	5362012.00	.93485 (73022)
226520.00	5362012.00	.88396 (82702)	226720.00	5362012.00	.88802 (40702)
226920.00	5362012.00	.88810 (11002)	227120.00	5362012.00	.69545 (82704)
227320.00	5362012.00	.84203 (82704)	227520.00	5362012.00	.75766 (100522)
227720.00	5362012.00	.98440 (32202)	227920.00	5362012.00	1.16150 (32202)
223920.00	5362212.00	.92251 (90205)	224120.00	5362212.00	.96037 (90205)
224320.00	5362212.00	.97358 (110402)	224520.00	5362212.00	1.04213 (42021)
224720.00	5362212.00	1.49313 (101406)	224920.00	5362212.00	2.93776 (101406)
225120.00	5362212.00	2.94233 (101406)	225320.00	5362212.00	1.59541 (101406)
225520.00	5362212.00	1.50145 (102503)	225720.00	5362212.00	1.65452 (72505)
225920.00	5362212.00	.93567 (72505)	226120.00	5362212.00	1.05750 (63021)
226320.00	5362212.00	.97682 (82702)	226520.00	5362212.00	.96378 (82702)
226720.00	5362212.00	.92876 (11002)	226920.00	5362212.00	.78335 (82704)
227120.00	5362212.00	.92875 (82704)	227320.00	5362212.00	.86262 (100522)
227520.00	5362212.00	1.20636 (32202)	227720.00	5362212.00	1.23080 (32202)
227920.00	5362212.00	1.14970 (72605)	223920.00	5362412.00	.96952 (110319)
224120.00	5362412.00	1.00963 (110319)	224320.00	5362412.00	1.05245 (90205)
224520.00	5362412.00	1.10161 (110402)	224720.00	5362412.00	1.16602 (42021)
224920.00	5362412.00	2.46889 (101406)	225120.00	5362412.00	3.12834 (101406)
225320.00	5362412.00	2.42840 (101406)	225520.00	5362412.00	1.63596 (102503)
225720.00	5362412.00	1.87244 (72505)	225920.00	5362412.00	1.02269 (72505)
226120.00	5362412.00	1.15823 (73022)	226320.00	5362412.00	1.06387 (82702)
226520.00	5362412.00	1.07078 (40702)	226720.00	5362412.00	1.00816 (11002)
226920.00	5362412.00	1.04599 (82704)	227120.00	5362412.00	1.16665 (32202)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
227320.00	5362412.00	1.42726 (32202)	227520.00	5362412.00	1.22782 (72605)
227720.00	5362412.00	1.32211 (72605)	227920.00	5362412.00	.94307 (72605)
223920.00	5362612.00	1.01860 (91102)	224120.00	5362612.00	1.05630 (110319)
224320.00	5362612.00	1.11856 (110319)	224520.00	5362612.00	1.17752 (110319)
224720.00	5362612.00	1.24959 (110402)	224920.00	5362612.00	1.43836 (101406)
225120.00	5362612.00	3.04706 (101406)	225320.00	5362612.00	3.08880 (101406)
225520.00	5362612.00	1.81030 (102503)	225720.00	5362612.00	2.17431 (72505)
225920.00	5362612.00	1.22840 (63021)	226120.00	5362612.00	1.25800 (82702)
226320.00	5362612.00	1.25141 (82702)	226520.00	5362612.00	1.29323 (11002)
226720.00	5362612.00	1.20660 (82704)	226920.00	5362612.00	1.48562 (32202)
227120.00	5362612.00	1.63124 (32202)	227320.00	5362612.00	1.53632 (72605)
227520.00	5362612.00	1.25869 (72605)	227720.00	5362612.00	1.36062 (50601)
227920.00	5362612.00	1.24685 (50601)	223920.00	5362812.00	1.07536 (91102)
224120.00	5362812.00	1.14261 (91102)	224320.00	5362812.00	1.20211 (91102)
224520.00	5362812.00	1.26421 (110319)	224720.00	5362812.00	1.35421 (110319)
224920.00	5362812.00	1.45667 (90205)	225120.00	5362812.00	2.64145 (101406)
225320.00	5362812.00	3.15449 (101406)	225520.00	5362812.00	2.51509 (101406)
225720.00	5362812.00	2.65935 (72505)	225920.00	5362812.00	1.65177 (63021)
226120.00	5362812.00	1.40139 (82702)	226320.00	5362812.00	1.50678 (11002)
226520.00	5362812.00	1.60403 (32202)	226720.00	5362812.00	1.93326 (32202)
226920.00	5362812.00	1.82342 (72605)	227120.00	5362812.00	1.67436 (72605)
227320.00	5362812.00	1.63632 (50601)	227520.00	5362812.00	1.42760 (91101)
227720.00	5362812.00	1.43466 (91101)	227920.00	5362812.00	1.17773 (91101)
223920.00	5363012.00	.78083 (52221)	224120.00	5363012.00	.98702 (91102)
224320.00	5363012.00	1.28785 (91102)	224520.00	5363012.00	1.38642 (91102)
224720.00	5363012.00	1.49473 (91102)	224920.00	5363012.00	1.62002 (91102)
225120.00	5363012.00	1.81575 (110319)	225320.00	5363012.00	3.11845 (101406)
225520.00	5363012.00	3.16796 (101406)	225720.00	5363012.00	3.59767 (72505)
225920.00	5363012.00	1.97672 (73022)	226120.00	5363012.00	2.05046 (40702)
226320.00	5363012.00	2.08332 (32202)	226520.00	5363012.00	2.41984 (32202)
226720.00	5363012.00	2.18959 (72605)	226920.00	5363012.00	2.02510 (50601)
227120.00	5363012.00	1.87296 (91101)	227320.00	5363012.00	1.57838 (91101)
227520.00	5363012.00	1.05865 (91101)	227720.00	5363012.00	.82447 (32422)
227920.00	5363012.00	.87321 (32422)	223920.00	5363212.00	1.24303 (71703)
224120.00	5363212.00	1.29261 (71703)	224320.00	5363212.00	1.32840 (71703)
224520.00	5363212.00	1.32717 (71703)	224720.00	5363212.00	1.65822 (91102)
224920.00	5363212.00	1.86196 (91102)	225120.00	5363212.00	2.15900 (91102)
225320.00	5363212.00	2.84509 (101406)	225520.00	5363212.00	3.55638 (90120)
225920.00	5363212.00	3.76300 (32202)	226120.00	5363212.00	4.05558 (32202)
226320.00	5363212.00	3.27363 (50601)	226520.00	5363212.00	2.78129 (91101)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
226720.00	5363212.00	2.36816 (91101)	226920.00	5363212.00	1.54468 (91101)
227120.00	5363212.00	1.29278 (32422)	227320.00	5363212.00	1.12581 (32422)
227520.00	5363212.00	1.04732 (40701)	227720.00	5363212.00	.96318 (40701)
227920.00	5363212.00	.89382 (71301)	223920.00	5363412.00	1.14094 (72323)
224120.00	5363412.00	1.33896 (71703)	224320.00	5363412.00	1.55380 (71703)
224520.00	5363412.00	1.75244 (71703)	224720.00	5363412.00	1.96426 (71703)
224920.00	5363412.00	2.26765 (71703)	225120.00	5363412.00	2.77365 (71703)
225320.00	5363412.00	3.76337 (71703)	226320.00	5363412.00	2.92783 (91101)
226520.00	5363412.00	2.06544 (81304)	226720.00	5363412.00	1.61433 (81304)
226920.00	5363412.00	1.54223 (51604)	227120.00	5363412.00	1.49821 (51604)
227320.00	5363412.00	1.45380 (51604)	227520.00	5363412.00	1.40965 (51604)
227720.00	5363412.00	1.36603 (51604)	227920.00	5363412.00	1.32335 (51604)
223920.00	5363612.00	1.50451 (32502)	224120.00	5363612.00	1.64842 (32502)
224320.00	5363612.00	1.81884 (32502)	224520.00	5363612.00	2.03010 (32502)
224720.00	5363612.00	2.31477 (32502)	224920.00	5363612.00	2.86327 (90204)
225120.00	5363612.00	4.02398 (90204)	226520.00	5363612.00	2.28868 (51502)
226720.00	5363612.00	1.97928 (51502)	226920.00	5363612.00	1.76878 (51502)
227120.00	5363612.00	1.60251 (51502)	227320.00	5363612.00	1.46668 (81304)
227520.00	5363612.00	1.36521 (81304)	227720.00	5363612.00	1.28153 (81304)
227920.00	5363612.00	1.21154 (81304)	223920.00	5363812.00	1.57447 (90204)
224120.00	5363812.00	1.73176 (52223)	224320.00	5363812.00	1.89809 (52223)
224520.00	5363812.00	2.17298 (42123)	224720.00	5363812.00	2.45032 (42522)
224920.00	5363812.00	2.66560 (42522)	225120.00	5363812.00	3.23336 (50922)
225320.00	5363812.00	4.17910 (32503)	226720.00	5363812.00	1.73543 (71501)
226920.00	5363812.00	1.55555 (71501)	227120.00	5363812.00	1.42521 (71501)
227320.00	5363812.00	1.28877 (71501)	227520.00	5363812.00	1.16645 (51502)
227720.00	5363812.00	1.13516 (51502)	227920.00	5363812.00	1.10426 (51502)
223920.00	5364012.00	1.50261 (42123)	224120.00	5364012.00	1.71108 (42522)
224320.00	5364012.00	1.70621 (42522)	224520.00	5364012.00	1.52242 (42522)
224720.00	5364012.00	2.11106 (50922)	224920.00	5364012.00	2.42585 (32503)
225120.00	5364012.00	2.76023 (42621)	225320.00	5364012.00	3.29307 (103123)
225520.00	5364012.00	4.24860 (60221)	226520.00	5364012.00	2.77693 (90405)
226720.00	5364012.00	2.27290 (90405)	226920.00	5364012.00	1.41026 (32302)
227120.00	5364012.00	1.33496 (52924)	227320.00	5364012.00	1.24522 (52924)
227520.00	5364012.00	1.18112 (71501)	227720.00	5364012.00	1.12085 (71501)
227920.00	5364012.00	1.05414 (71501)	223920.00	5364212.00	1.07573 (42522)
224120.00	5364212.00	1.08067 (112118)	224320.00	5364212.00	1.63946 (50922)
224520.00	5364212.00	2.18057 (112107)	224720.00	5364212.00	2.30204 (112107)
224920.00	5364212.00	2.17751 (101803)	225120.00	5364212.00	2.42735 (91103)
225320.00	5364212.00	2.77840 (81122)	225520.00	5364212.00	2.95560 (12507)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC
225720.00	5364212.00	2.64314 (110201)	226320.00	5364212.00	3.43304 (51504)
226520.00	5364212.00	3.40235 (51504)	226720.00	5364212.00	2.78009 (90405)
226920.00	5364212.00	2.49870 (90405)	227120.00	5364212.00	1.51324 (90405)
227320.00	5364212.00	1.15916 (32302)	227520.00	5364212.00	1.08305 (32302)
227720.00	5364212.00	1.04905 (52924)	227920.00	5364212.00	1.02025 (52924)
223920.00	5364412.00	1.33802 (50922)	224120.00	5364412.00	1.82040 (112107)
224320.00	5364412.00	2.19497 (112107)	224520.00	5364412.00	1.89944 (112107)
224720.00	5364412.00	1.83732 (101803)	224920.00	5364412.00	1.98388 (91103)
225120.00	5364412.00	2.16293 (73104)	225320.00	5364412.00	2.22808 (22601)
225520.00	5364412.00	2.37495 (62224)	225720.00	5364412.00	2.15930 (110201)
225920.00	5364412.00	1.85604 (110302)	226120.00	5364412.00	1.62788 (32124)
226320.00	5364412.00	2.68972 (51504)	226520.00	5364412.00	3.40117 (51504)
226720.00	5364412.00	3.37144 (51504)	226920.00	5364412.00	2.75616 (90405)
227120.00	5364412.00	2.60956 (90405)	227320.00	5364412.00	1.92363 (90405)
227520.00	5364412.00	1.01804 (32302)	227720.00	5364412.00	1.00360 (32302)
227920.00	5364412.00	.95859 (32302)	223920.00	5364612.00	1.97060 (112107)
224120.00	5364612.00	1.95931 (112107)	224320.00	5364612.00	1.51803 (42621)
224520.00	5364612.00	1.61059 (91924)	224720.00	5364612.00	1.66056 (91103)
224920.00	5364612.00	1.82411 (73104)	225120.00	5364612.00	1.88840 (42124)
225320.00	5364612.00	1.90032 (42102)	225520.00	5364612.00	2.04856 (32220)
225720.00	5364612.00	1.86802 (110201)	225920.00	5364612.00	1.64735 (52202)
226120.00	5364612.00	1.47257 (32124)	226320.00	5364612.00	1.34716 (91023)
226520.00	5364612.00	2.40340 (51504)	226720.00	5364612.00	3.32225 (51504)
226920.00	5364612.00	3.33330 (51504)	227120.00	5364612.00	2.66084 (51504)
227320.00	5364612.00	2.64831 (90405)	227520.00	5364612.00	2.18967 (90405)
227720.00	5364612.00	1.35293 (90405)	227920.00	5364612.00	.85872 (32302)
223920.00	5364812.00	1.57216 (112107)	224120.00	5364812.00	1.35828 (101803)
224320.00	5364812.00	1.40812 (91924)	224520.00	5364812.00	1.40702 (51001)
224720.00	5364812.00	1.57590 (60502)	224920.00	5364812.00	1.63566 (12506)
225120.00	5364812.00	1.63223 (22607)	225320.00	5364812.00	1.71911 (62503)
225520.00	5364812.00	1.76236 (32220)	225720.00	5364812.00	1.66413 (110201)
225920.00	5364812.00	1.49604 (42101)	226120.00	5364812.00	1.36804 (70722)
226320.00	5364812.00	1.24330 (32124)	226520.00	5364812.00	1.18099 (91023)
226720.00	5364812.00	2.18570 (51504)	226920.00	5364812.00	3.20060 (51504)
227120.00	5364812.00	3.28299 (51504)	227320.00	5364812.00	2.64997 (51504)
227520.00	5364812.00	2.61039 (90405)	227720.00	5364812.00	2.34946 (90405)
227920.00	5364812.00	1.69020 (90405)	223920.00	5365012.00	1.23349 (101803)
224120.00	5365012.00	1.28707 (103123)	224320.00	5365012.00	1.26655 (51001)
224520.00	5365012.00	1.39931 (60502)	224720.00	5365012.00	1.41988 (81221)
224920.00	5365012.00	1.46104 (11524)	225120.00	5365012.00	1.49230 (32002)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 ALL *** INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)
225320.00	5365012.00	1.57768 (12507)	225520.00	5365012.00	1.48782 (32220)
225720.00	5365012.00	1.50488 (110201)	225920.00	5365012.00	1.37814 (32123)
226120.00	5365012.00	1.27069 (31020)	226320.00	5365012.00	1.18297 (32124)
226520.00	5365012.00	1.10493 (91023)	226720.00	5365012.00	.99927 (91023)
226920.00	5365012.00	2.01555 (51504)	227120.00	5365012.00	3.05413 (51504)
227320.00	5365012.00	3.21489 (51504)	227520.00	5365012.00	2.63822 (51504)
227720.00	5365012.00	2.48092 (90405)	227920.00	5365012.00	2.41194 (90405)
223920.00	5365212.00	1.18522 (103123)	224120.00	5365212.00	1.16089 (51001)
224320.00	5365212.00	1.26273 (60502)	224520.00	5365212.00	1.29860 (81221)
224720.00	5365212.00	1.30838 (42124)	224920.00	5365212.00	1.32934 (22607)
225120.00	5365212.00	1.37375 (53002)	225320.00	5365212.00	1.43831 (62224)
225520.00	5365212.00	1.28984 (61222)	225720.00	5365212.00	1.37224 (110201)
225920.00	5365212.00	1.27947 (50221)	226120.00	5365212.00	1.18969 (63003)
226320.00	5365212.00	1.10572 (32124)	226520.00	5365212.00	.99780 (91023)
226720.00	5365212.00	1.00279 (91023)	226920.00	5365212.00	.78271 (52102)
227120.00	5365212.00	1.88485 (51504)	227320.00	5365212.00	2.90050 (51504)
227520.00	5365212.00	3.12941 (51504)	227720.00	5365212.00	2.61910 (51504)
227920.00	5365212.00	2.27023 (90405)	223920.00	5365412.00	1.07284 (51001)
224120.00	5365412.00	1.15606 (60502)	224320.00	5365412.00	1.18782 (81122)
224520.00	5365412.00	1.20906 (60221)	224720.00	5365412.00	1.22675 (22601)
224920.00	5365412.00	1.25132 (51223)	225120.00	5365412.00	1.29250 (62503)
225320.00	5365412.00	1.28460 (62224)	225520.00	5365412.00	1.22062 (61222)
225720.00	5365412.00	1.25984 (101704)	225920.00	5365412.00	1.19323 (50221)
226120.00	5365412.00	1.12306 (110302)	226320.00	5365412.00	1.05664 (70722)
226520.00	5365412.00	1.00104 (32124)	226720.00	5365412.00	.95076 (91023)
226920.00	5365412.00	.89684 (91023)	227120.00	5365412.00	.75114 (52102)
227320.00	5365412.00	1.77977 (51504)	227520.00	5365412.00	2.74811 (51504)
227720.00	5365412.00	3.02884 (51504)	227920.00	5365412.00	2.59275 (51504)
223920.00	5365612.00	1.06851 (112101)	224120.00	5365612.00	1.09658 (81122)
224320.00	5365612.00	1.12021 (12506)	224520.00	5365612.00	1.13168 (11524)
224720.00	5365612.00	1.13241 (22607)	224920.00	5365612.00	1.17331 (42102)
225120.00	5365612.00	1.15631 (12507)	225320.00	5365612.00	1.19675 (112202)
225520.00	5365612.00	1.15713 (61222)	225720.00	5365612.00	1.17235 (101704)
225920.00	5365612.00	1.12137 (30521)	226120.00	5365612.00	1.06533 (60621)
226320.00	5365612.00	1.01275 (31020)	226520.00	5365612.00	.96281 (32124)
226720.00	5365612.00	.80093 (32124)	226920.00	5365612.00	.89136 (91023)
227120.00	5365612.00	.73788 (91023)	227320.00	5365612.00	.72164 (52102)
227520.00	5365612.00	1.69104 (51504)	227720.00	5365612.00	2.60443 (51504)
227920.00	5365612.00	2.91914 (51504)	223920.00	5365812.00	1.00674 (81122)
224120.00	5365812.00	1.03557 (12506)	224320.00	5365812.00	1.03568 (42124)

**MODELOPTs: CONC RURAL ELEV FLGPOL DFAULT

ALL *** ** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:
 INCLUDING SOURCE(S): LET1 , LET2 , PHASE2 , PHASE1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M) (YYMMDDHH)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
224520.00	5365812.00	1.07928 (22604)	224720.00	5365812.00	1.09306 (51003)
224920.00	5365812.00	1.09768 (53002)	225120.00	5365812.00	1.13440 (12507)
225320.00	5365812.00	1.14078 (112202)	225520.00	5365812.00	1.09941 (61222)
225720.00	5365812.00	1.09947 (101704)	225920.00	5365812.00	1.05841 (72701)
226120.00	5365812.00	1.01475 (52202)	226320.00	5365812.00	.95766 (31020)
226520.00	5365812.00	.86548 (32124)	226720.00	5365812.00	.86954 (32124)
226920.00	5365812.00	.82488 (91023)	227120.00	5365812.00	.82138 (91023)
227320.00	5365812.00	.55112 (91023)	227520.00	5365812.00	.69453 (51504)
227720.00	5365812.00	1.61794 (51504)	227920.00	5365812.00	2.46940 (51504)
225503.00	5362713.00	2.13627 (101406)	224887.00	5363420.00	2.22405 (71703)
224770.00	5363469.00	2.13827 (72323)	225257.00	5364124.00	2.81352 (51001)
225468.00	5364207.00	2.78931 (53002)	225252.00	5363603.00	5.41546 (52223)
225695.00	5363192.00	5.59692 (72505)	226208.00	5363365.00	4.62502 (91101)
226364.00	5363533.00	2.99965 (81304)	226639.00	5363829.00	1.81336 (71501)
226539.00	5363924.00	2.56673 (90405)	226369.00	5364086.00	3.42983 (51504)
226246.00	5364203.00	3.41578 (51504)	226148.00	5364294.00	2.30815 (51504)
226060.00	5364257.00	1.85996 (32124)	225988.00	5364243.00	1.98699 (70722)
225939.00	5364228.00	2.10600 (31020)	225848.00	5364189.00	2.37684 (52202)
225748.00	5364140.00	2.80102 (112401)	225660.00	5364096.00	3.42459 (101701)
225579.00	5364037.00	4.09281 (62224)	225528.00	5363987.00	4.48770 (12506)
225484.00	5363930.00	4.55249 (60502)	225452.00	5363880.00	4.67293 (91924)
225401.00	5363792.00	4.99484 (32503)	225357.00	5363722.00	5.25788 (50922)
225317.00	5363668.00	5.43069 (42522)	225278.00	5363624.00	5.51059 (42123)
225252.00	5363603.00	5.41546 (52223)			

ANNEXE III – Tableaux des 50 plus hautes concentrations simulées

Concentrations moyennes maximales horaires - Site de Rimouski
Année 1996

Rang	Concentration ($\mu\text{g}/\text{m}^3$)	Date (an/mois/jour/hre)	Emplacement	
			X (m)	Y (m)
1	5.56	96091122	225695	5363192
2	5.49	96102006	225278	5363624
3	5.47	96080305	225278	5363624
4	5.45	96080305	225317	5363668
5	5.45	96041823	225278	5363624
6	5.45	96072501	225278	5363624
7	5.45	96041823	225317	5363668
8	5.45	96072501	225317	5363668
9	5.42	96102006	225252	5363603
10	5.42	96102006	225252	5363603
11	5.42	96101918	225252	5363603
12	5.42	96101918	225252	5363603
13	5.39	96101918	225278	5363624
14	5.24	96090705	225357	5363722
15	5.15	96041823	225357	5363722
16	5.15	96072501	225357	5363722
17	5.12	96102006	225317	5363668
18	5.05	96080305	225357	5363722
19	4.99	96090705	225401	5363792
20	4.98	96101824	225401	5363792
21	4.98	96102421	225401	5363792
22	4.94	96090705	225317	5363668
23	4.89	96080305	225252	5363603
24	4.89	96080305	225252	5363603
25	4.89	96101918	225317	5363668
26	4.89	96051523	225252	5363603
27	4.89	96051523	225252	5363603
28	4.77	96101824	225357	5363722
29	4.77	96102421	225357	5363722
30	4.76	96051523	225278	5363624
31	4.75	96101824	225317	5363668
32	4.75	96102421	225317	5363668
33	4.73	96111723	225317	5363668
34	4.70	96090705	225278	5363624
35	4.70	96041823	225252	5363603
36	4.70	96041823	225252	5363603
37	4.70	96072501	225252	5363603
38	4.70	96072501	225252	5363603
39	4.67	96111723	225452	5363880
40	4.66	96040822	225452	5363880
41	4.66	96090121	225452	5363880
42	4.62	96031902	225357	5363722
43	4.62	96111723	225357	5363722
44	4.62	96091720	225357	5363722
45	4.61	96040822	225357	5363722
46	4.61	96090121	225357	5363722
47	4.61	96081423	226208	5363365
48	4.61	96102003	225357	5363722
49	4.61	96101824	225452	5363880
50	4.61	96102421	225452	5363880

Concentrations moyennes maximales horaires - Site de Rimouski
Année 1997

Rang	Concentration (ug/m ³)	Date (an/mois/jour/hre)	Emplacement	
			X (m)	Y (m)
1	5.51	97071421	225278	5363624
2	5.51	97090822	225278	5363624
3	5.51	97082201	225278	5363624
4	5.45	97110703	225278	5363624
5	5.45	97110703	225317	5363668
6	5.44	97032522	225278	5363624
7	5.43	97040402	225317	5363668
8	5.43	97032522	225252	5363603
9	5.43	97032522	225252	5363603
10	5.40	97052321	225695	5363192
11	5.39	97082201	225317	5363668
12	5.37	97040120	225252	5363603
13	5.37	97040120	225252	5363603
14	5.37	97082320	225252	5363603
15	5.37	97082320	225252	5363603
16	5.34	97060122	225317	5363668
17	5.34	97071421	225252	5363603
18	5.34	97071421	225252	5363603
19	5.34	97090822	225252	5363603
20	5.34	97090822	225252	5363603
21	5.34	97040402	225278	5363624
22	5.31	97071421	225317	5363668
23	5.31	97090822	225317	5363668
24	5.30	97040120	225278	5363624
25	5.30	97082320	225278	5363624
26	5.27	97060122	225357	5363722
27	5.26	97082201	225252	5363603
28	5.26	97082201	225252	5363603
29	5.25	97040402	225357	5363722
30	5.22	97070202	225357	5363722
31	5.15	97110703	225357	5363722
32	5.01	97032522	225317	5363668
33	5.00	97070202	225401	5363792
34	5.00	97060622	225357	5363722
35	5.00	97101421	225357	5363722
36	4.99	97060622	225401	5363792
37	4.99	97101421	225401	5363792
38	4.99	97051002	225401	5363792
39	4.98	97101220	225401	5363792
40	4.96	97071504	225401	5363792
41	4.93	97060401	225401	5363792
42	4.92	97060122	225278	5363624
43	4.89	97072122	225252	5363603
44	4.89	97072122	225252	5363603
45	4.89	97083121	225252	5363603
46	4.89	97083121	225252	5363603
47	4.88	97051002	225357	5363722
48	4.86	97070202	225317	5363668
49	4.80	97060122	225401	5363792
50	4.78	97040120	225317	5363668

Concentrations moyennes maximales horaires - Site de Rimouski
Année 1998

Rang	Concentration (ug/m ³)	Date (an/mois/jour/hre)	Emplacement	
			X (m)	Y (m)
1	5.45	98060901	225278	5363624
2	5.45	98082821	225278	5363624
3	5.45	98060901	225317	5363668
4	5.45	98082821	225317	5363668
5	5.44	98060723	225317	5363668
6	5.43	98051521	225317	5363668
7	5.41	98060723	225278	5363624
8	5.40	98060621	225695	5363192
9	5.34	98021123	225317	5363668
10	5.34	98101319	225317	5363668
11	5.33	98092522	225695	5363192
12	5.30	98051221	225252	5363603
13	5.30	98051221	225252	5363603
14	5.29	98050801	225695	5363192
15	5.27	98051521	225357	5363722
16	5.27	98021123	225357	5363722
17	5.27	98101319	225357	5363722
18	5.27	98092521	225317	5363668
19	5.26	98092521	225357	5363722
20	5.24	98070923	225357	5363722
21	5.24	98051521	225278	5363624
22	5.22	98060723	225357	5363722
23	5.21	98050121	225252	5363603
24	5.21	98050121	225252	5363603
25	5.19	98051221	225278	5363624
26	5.15	98060901	225357	5363722
27	5.15	98082821	225357	5363722
28	5.11	98110803	225252	5363603
29	5.11	98110803	225252	5363603
30	5.08	98050121	225278	5363624
31	4.99	98070923	225401	5363792
32	4.99	98022319	225401	5363792
33	4.97	98110803	225278	5363624
34	4.94	98070923	225317	5363668
35	4.93	98110805	225401	5363792
36	4.92	98021123	225278	5363624
37	4.92	98101319	225278	5363624
38	4.90	98092521	225401	5363792
39	4.89	98060724	225252	5363603
40	4.89	98060724	225252	5363603
41	4.88	98022319	225357	5363722
42	4.85	98092521	225278	5363624
43	4.80	98021123	225401	5363792
44	4.80	98101319	225401	5363792
45	4.76	98060724	225278	5363624
46	4.75	98022319	225317	5363668
47	4.75	98110805	225317	5363668
48	4.70	98070923	225278	5363624
49	4.70	98060901	225252	5363603
50	4.70	98060901	225252	5363603

Concentrations moyennes maximales horaires - Site de Rimouski
Année 1999

Rang	Concentration (ug/m ³)	Date (an/mois/jour/hre)	Emplacement	
			X (m)	Y (m)
1	5.73	99090505	226320	5364412
2	5.73	99090505	226148	5364294
3	5.71	99090505	226060	5364257
4	5.68	99090505	226246	5364203
5	5.63	99090505	226520	5364812
6	5.61	99090505	225988	5364243
7	5.60	99090505	226320	5364612
8	5.60	99032903	225695	5363192
9	5.55	99090505	226720	5365012
10	5.55	99090505	226520	5364612
11	5.51	99090505	226120	5364412
12	5.51	99091622	225278	5363624
13	5.49	99092824	225278	5363624
14	5.45	99090805	225278	5363624
15	5.45	99090805	225317	5363668
16	5.42	99092824	225252	5363603
17	5.42	99092824	225252	5363603
18	5.41	99081522	225317	5363668
19	5.39	99111921	225695	5363192
20	5.39	99091622	225317	5363668
21	5.36	99090505	226320	5364212
22	5.32	99090505	226920	5365212
23	5.31	99090505	225939	5364228
24	5.28	99081522	225357	5363722
25	5.26	99091622	225252	5363603
26	5.26	99091622	225252	5363603
27	5.18	99090505	226920	5365412
28	5.15	99090805	225357	5363722
29	5.15	99090505	227120	5365612
30	5.14	99090505	226720	5364812
31	5.13	99081522	225278	5363624
32	5.12	99092824	225317	5363668
33	5.03	99090505	226720	5365212
34	4.98	99092903	225401	5363792
35	4.95	99090505	227320	5365812
36	4.92	99090505	227120	5365412
37	4.87	99092823	225695	5363192
38	4.75	99092903	225317	5363668
39	4.73	99100523	225317	5363668
40	4.70	99090805	225252	5363603
41	4.70	99090805	225252	5363603
42	4.70	99061803	225317	5363668
43	4.69	99092903	225357	5363722
44	4.68	99090505	226520	5365012
45	4.67	99061803	225452	5363880
46	4.67	99100523	225452	5363880
47	4.67	99091622	225357	5363722
48	4.67	99090505	226520	5364412
49	4.66	99090803	225452	5363880
50	4.65	99092903	225452	5363880

**Concentrations moyennes maximales horaires - Site de Rimouski
Année 2000**

Rang	Concentration (ug/m ³)	Date (an/mois/jour/hre)	Emplacement	
			X (m)	Y (m)
1	5.60	72505	225695	5363192
2	5.58	12107	225695	5363192
3	5.51	42123	225278	5363624
4	5.51	52224	225278	5363624
5	5.50	42522	225278	5363624
6	5.49	102503	225695	5363192
7	5.43	42522	225317	5363668
8	5.42	52223	225252	5363603
9	5.42	52223	225252	5363603
10	5.42	110103	225252	5363603
11	5.42	110103	225252	5363603
12	5.39	90120	225695	5363192
13	5.39	42123	225252	5363603
14	5.39	42123	225252	5363603
15	5.39	52224	225252	5363603
16	5.39	52224	225252	5363603
17	5.39	52223	225278	5363624
18	5.39	110103	225278	5363624
19	5.37	52903	225252	5363603
20	5.37	52903	225252	5363603
21	5.37	103124	225252	5363603
22	5.37	103124	225252	5363603
23	5.36	71502	225695	5363192
24	5.30	90204	225252	5363603
25	5.30	90204	225252	5363603
26	5.30	52903	225278	5363624
27	5.30	103124	225278	5363624
28	5.26	50922	225357	5363722
29	5.24	32503	225357	5363722
30	5.24	60722	225357	5363722
31	5.23	42123	225317	5363668
32	5.23	52224	225317	5363668
33	5.19	90204	225278	5363624
34	5.17	50922	225317	5363668
35	5.16	42522	225252	5363603
36	5.16	42522	225252	5363603
37	4.99	32503	225401	5363792
38	4.99	60722	225401	5363792
39	4.98	42621	225401	5363792
40	4.98	51521	225401	5363792
41	4.96	101803	225401	5363792
42	4.96	50922	225401	5363792
43	4.94	32503	225317	5363668
44	4.94	60722	225317	5363668
45	4.89	52223	225317	5363668
46	4.89	110103	225317	5363668
47	4.86	91924	225401	5363792
48	4.86	110404	225401	5363792
49	4.85	42623	225695	5363192
50	4.81	50922	225278	5363624

ANNEXE IV – Critères de qualité de l'air du MENV

CRITÈRES DE QUALITÉ DE L'AIR DU MENV

(Version du 12 février 2001)

Nom	CAS	MAX 15 min mg/m ³	rationnel 15 min	MAX 24 hres mg/m ³	rationnel 24 hres	MAX AN mg/m ³	rationnel annuel
Acétaldéhyde	75-07-0					0,5	q*i
Acétone	67-64-1					180	RfD
Acétonitrile	75-05-8					30	RfC
Acétophénone	98-86-2	830	Odeur			350	RfD
Acroléine	107-02-8					0,02	RfC
Acrylamide	79-06-1					0,0001	q*i
Acrylique, acide	79-10-7					1	RfC
Acrylonitrile	107-13-1					0,01	q*
Ammoniac	7664-41-7					100	RfC
Aniline	62-53-3					1	RfC
Anthracène	120-12-7					500	RfD
Antimoine et composés (en Sb)	7440-36-0					0,3	RfD
Antimoine, trioxyde d'	1309-64-4					0,2	RfC
Argent, composés solubles (en Ag)	7440-22-4b					0,2	RfD
Argent, métal	7440-22-4					2	RfD
Arsenic et composés solubles (en As)	7440-38-2					0,0002	q*
Arsine	7784-42-1		NIOSH/100			0,05	RfC
Benzaldéhyde	100-52-7					200	RfD
Benzène	71-43-2			10 ¹		0,1	q*
p-Benzidine	92-87-5					0,00002	q*
Benzo(a)pyrène	50-32-8					0,0009	q*
Béryllium et composés	7440-41-7					0,0004	q*
Biphényles polychlorés	1336-36-3					0,01	q*
Bisphénol A	80-05-7					90	
Bore	7440-42-8					40	NOAEL/FS
Bromoforme	75-25-2					0,9	q*o
Bromométhane	74-83-9					5	RfC
1,3-Butadiène	106-99-0					0,004	q*i
n-Butanol	71-36-3	2510	Odeur			200	RfD
Butyl benzyle, phtalate de	85-68-7					140	RfD
ter-Butyl méthyl éther	1634-04-4	2200	Odeur			3000	RfC
Cadmium, composés de (en Cd)	7440-43-9					0,0006	q*
Carbone, disulfure de	75-15-0	50	Odeur			700	RfC
Chlore, bioxyde de	10049-04-4					0,2	RfC
2-Chloroacétophénone	532-27-4					0,03	RfC
Chlorobenzène (mono)	108-90-7					28	DJA
Chloroforme	67-66-3					0,04	q*
Chlorométhane	74-87-3					825	MRL
bisChlorométhylque, éther	542-88-1					0,00001	q*

Nom	CAS	MAX 15 min mg/m ³	rationnel 15 min	MAX 24 hres mg/m ³	rationnel 24 hres	MAX AN mg/m ³	rationnel annuel
						6	
3-Chloropropène	107-05-1					1	RfC
o-Chlorotoluène	95-49-8	1660	Odeur			30	RfD
Chrome VI	18540-29-9					0,00008	q*
Cobalt (fumée et poussière de métal)	7440-48-4					0,003	NOAEL/FS
Cumène	98-82-8	40	Odeur			400	RfC
Cyclohexanone	108-94-1	3500	Odeur			9000	RfD
Cyclohexylamine	108-91-8					350	RfD
Decabromodiphenyl ether	1163-19-5					30	RfD
1,4-Dibromobenzène	106-37-6					30	RfD
Dibromochlorométhane	124-48-1					30	RfD
1,2-Dibromo-3- chloropropane	96-12-8					0,2	RfC
1,2-Dibromoéthane	106-93-4					0,005	q*
Dibutyle, phtalate de	84-74-2					0,5	NOAEL/FS
o-Dichlorobenzène	95-50-1	4200	Odeur			160	RfD
p-Dichlorobenzène	106-46-7	730	Odeur			400	RfC
1,2-Dichloroéthane	107-06-2					0,04	q*
1,1-Dichloroéthane	75-34-3					120	NOAEL/FS
1,2-Dichloroéthène	156-60-5					80	LOAEL/FS
Dichloroéthylque, éther	111-44-4					0,003	q*
Dichlorométhane	75-09-2					2	q*
2,4-Dichlorophénol	120-83-2					3	RfD
1,2-Dichloropropane	78-87-5					4	RfC
1,3-Dichloropropène	542-75-6					20	RfC
Di-(2-ethylhexyl), adipate de	103-23-1					400	RfD
Di-(éthyl-2 hexyl), phtalate de	117-81-7					14	RfD
Diméthylamine	124-40-3					2	LOAEL
Diméthylaniline	121-69-7	60	Odeur			3,5	RfD
Diméthylformamide	68-12-2					30	RfC
m-Dinitrobenzène	99-65-0					0,2	RfD
2,4-Dinitrotoluène	121-14-2					3	RfD
Epichlorhydrine	106-89-8					0,8	q*
1,2-Epoxybutane	106-88-7					20	RfC
2-Ethoxyéthanol	110-80-5	800	Odeur			200	RfC
Ethylbenzène	100-41-4					1000	RfC
Ethyle, acétate d'	141-78-6					1600	RfD
Ethyle: chlorure d'	75-00-3	10920	Odeur			10000	RfC
Ethylène glycol	107-21-1	2000	ACGIH STEL/50				
Ethylène, oxyde d'	75-21-8					0,01	q*
Ethylque, éther	60-29-7		Odeur			350	RfD
Formaldéhyde	50-00-0	37	ACGIH/10				

Nom	CAS	MAX 15 min mg/m ³	rationnel 15 min	MAX 24 hres mg/m ³	rationnel 24 hres	MAX AN mg/m ³	rationnel annuel
Hexachlorobenzène	118-74-1					0,002	q*
Hexachlorobutadiène	87-68-3					0,05	q*
Hexachlorocyclopentadiène	77-47-4					10	RfD
Hexachloroéthane	67-72-1					0,25	q*
Hexaméthylène diisocyanate (monomère)	822-06-0					0,01	RfC
n-Hexane	110-54-3					200	RfC
2-Héxanone	591-78-6	310	Odeur			35	LOAEL/FS
Hydrogène, chlorure d'	7647-01-0					20	RfC
Hydrogène, cyanure d'	74-90-8					0,3	RfC/10
Hydrogène, fluorure d'	7664-39-3					0,4	Végétation
Isobutylique, alcool	78-83-1	4850	Odeur			500	RfD
Manganèse, poussières et composés	7439-96-5					0,05	RfC
Mercure, vapeur de - en Hg	7439-97-6					0,15	RfC/2
Méthanethiol (METHYL MERCAPTAN)	74-93-1	1,4	Odeur			35	NOAEL/FS
Méthanol	67-56-1	2600	Odeur			440	RfD
2-Méthoxyéthanol	109-86-4					20	RfC
Méthyle, méthacrylate de	80-62-6	200	Odeur			50	DJA
Méthylène Bi-(isocyanate-4 de phényl)	101-68-8					0,6	RfC
Méthyléthylcétone	78-93-3	5800	Odeur			820	RfC
Naphthalène	91-20-3	200	Odeur			3	RfC
Nickel, composés de (comme groupe)	7440-02-0-C					0,0025	q*
Nickel, sulfure de	12035-72-2					0,002	q*
Nitrobenzène	98-95-3					1,75	RfD
2-Nitropropane	79-46-9					20	RfC
N-Nitroso-di-n-butylamine	924-16-3					0,0006	q*
n-Nitrosodiéthylamine	55-18-5					0,00002	q*
N-Nitrosodiméthylamine	62-75-9					0,00007	q*
N-Nitrosopyrrolidine	930-55-2					0,002	q*
Particules en suspension (PM10)	DMA-41			25 (50) ¹	GTLDOQA/Env.		
Particules fines (PM2,5)	DMA42			15 (30) ²	GTLDOQA/Env.		
PCDD et PCDF (ITEF)	DMA-14					1,75E-08	DJA
Pentachlorobenzène	608-93-5					2,8	DJA
Pentachlorophénol	87-86-5					0,003	q*
Phénol (vapeur)	108-95-2	230				20	NOAEL/FS
Phosphine	7803-51-2		NIOSH/100			0,3	RfC
Phosphorique, acide	7664-38-2	40	NIOSH/50			10	RfC
2-Propènel	107-18-6		NIOSH/50			9	RfD
Propylène glycol monométhyléther	107-98-2					2000	RfC
Propylène, oxyde de	75-56-9					0,3	q*

Nom	CAS	MAX 15 min mg/m ³	rationnel 15 min	MAX 24 hres mg/m ³	rationnel 24 hres	MAX AN mg/m ³	rationnel annuel
Pyrène	129-00-0					50	RfD
Pyridine	110-86-1	60	Odeur			1,8	RfD
Stoddard, solvant	8052-41-3					60	LOAEL/FS
Styrène, monomère	100-42-5	200	Odeur			1000	RfC
1,2,3,4-Tétrachlorobenzène	634-66-2					10	DJA
1,2,3,5-Tétrachlorobenzène	634-90-2					1,2	DJA
1,2,4,5-Tétrachlorobenzène	95-94-3					0,6	DJA
1,1,1,2-Tétrachloroéthane	630-20-6					0,1	q*
1,1,2,2-Tétrachloroéthane	79-34-5					0,02	q*
Tétrachloroéthène	127-18-4					20	RfD
Tétrachlorométhane	56-23-5					0,07	q*
Toluène	108-88-3		Odeur			400	RfC
1,2,3-Trichlorobenzène	87-61-6					3,5	DJA
1,3,5-Trichlorobenzène	108-70-3					2,7	DJA
1,2,4-Trichlorobenzène	120-82-1		Ontario			18	RfD
1,1,1-Trichloroéthane	71-55-6		NIOSH/100			1100	NOAEL/FS
1,1,2-Trichloroéthane	79-00-5					0,06	q*
Trichloroéthène	79-01-6					2,3	q*
2,4,5-Trichlorophénol	95-95-4					200	RfD
2,4,6-Trichlorophénol	88-06-2					0,3	q*
1,2,3-Trichloropropane	96-18-4					9,3	NOAEL/FS
Triéthylamine	121-44-8					7	RfC
Vanadium	7440-62-2					1	DJA
Vanadium, pentoxyde de (poussière respirable et fumée)	1314-62-1					0,08	LOAEL/FS
Vinyle, acétate de	108-05-4					200	RfC
Vinyle, chlorure de	75-01-4					0,2	q*
Vinylidène, chlorure de	75-35-4					0,02	q*
Xylène (isomères o-, m-, et p-)	1330-20-7	345	Odeur			470	DJA

NOTES

¹ Critère de gestion MENV

² Standard pan-canadien

Définitions:

critères : concentration dans l'air permettant d'éviter l'apparition d'un effet sur la santé ou l'environnement

critères de gestion ou normes de qualité de l'air : seuil de concentration basé sur le critère et sur des aspects de faisabilité

odeur : seuil d'odeur; la plupart proviennent de AIHA 1989 (American Industrial Hygiene Association)

NIOSH/100 : recommandation NIOSH divisé par un facteur de sécurité de 100

RfC : Référence concentration (EPA IRIS sur www.epa.gov)

RfD : Référence dose (calculé à partir de la dose de référence; EPA IRIS sur www.epa.gov)

q*: concentration équivalent à un risque additionnel de cancer de 1 cas sur 1 million

NOALE/FS : NOAEL divisé par un facteur de sécurité (FS)

LOAEL/FS : LOAEL divisé par un facteur de sécurité

DJA: concentration calculée à partir d'une dose journalière admissible de Santé Canada

GTLDOQA: Groupe de travail fédéral-provincial sur les lignes directrices et les objectifs de qualité de l'air

Pour comparer les concentrations modélisées sur 1 heure avec les critères établis sur 15 min ou 1 an, il faut exprimer les concentrations modélisées en concentrations équivalentes sur 15 min, 124 heures et 1 an selon la relation suivante :

$$C_1/C_2 = (T_2/T_1)^{0.2}$$

où

C_1 = concentration sur l'intervalle de temps t_1

C_2 = concentration sur l'intervalle de temps t_2

T_1 = intervalle de temps t_1

T_2 = intervalle de temps t_2