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MEMORANDUM

DATE:	2022-02-07	RWDI Reference No.: 1701163
TO:	Rajan Sawhney	EMAIL: SawhneyR@bv.com
FROM:	Alain Carriere	EMAIL: Alain.Carriere@rwdi.com
CC:	Ben Coulson	EMAIL: Ben.Coulson@rwdi.com
Air Quality Impact Assessment Water Resource Recovery Facility (WRRF) Nobleton, Ontario		

Dear Mr. Sawhney,

RWDI was retained by Black & Veatch (B&V) to complete a quantitative assessment of the potential air quality effects related to the wastewater servicing improvements in the community of Nobleton, Ontario. The need for the proposed improvements were identified in the 2016 York Region Water and Wastewater Master Plan and are subject to a Schedule C Municipal Class Environmental Assessment Study (EA). This memo was prepared and issued in July 2021 in support of this EA and assesses the potential air quality effects of the selected design concept (Wastewater Servicing Alternative A). Since issuance, the Memo has been updated to address York Region and Ministry of the Environment, Conservation and Parks (MECP) review comments. RWDI has prepared a separate memo focusing on noise effects.

Background

The service and EA study areas are shown in Figure 1 below.

In support of Technical Memo 3, RWDI prepared a high-level qualitative assessment of the potential effects of the proposed changes, dated April 30, 2021. Since the preparation of the qualitative assessment, RWDI conducted a site visit to observe the current operations at all affected facilities.

This assessment expands on the previous qualitative study, by quantifying existing air quality levels from the most significant contaminant sources.





Study Area and Service Area

Figure 1: Study Area and Service Area

Design specifics are currently evolving to meet planning requirements. At this stage, the Nobleton Water Resource Recovery Facility (WRRF) is expected to add new primary, secondary and tertiary treatment infrastructure, and new effluent pump station. These changes are expected to increase the existing capacity and as a result, air quality emissions are expected to also increase, particularly for odour-related contaminants.

The proposed changes to Well #2, Well #5 and the Janet Avenue Pumping Station will increase flowrate through each of these sites but are not expected to increase the emissions associated with any of the equipment. The standby generators at Well #5 and the Janet Avenue Pumping Station are air quality sources that may be upsized as part of the planned upgrades. Ontario Regulation 524/98 (O.Reg. 524/98) outlines a set of air quality and noise parameters for standby generators that, when met, are expected to result in insignificant effects; hence the MECP does not require an environmental approval for such sources. The following O.Reg. 524/98 sections apply to air quality:



1. (6.3) For the purposes of paragraph 26 of subsection 1 (1), the following criteria must be met:

1. Each exhaust stack that is part of the standby power system and that may discharge a product of combustion from the system into the air is oriented vertically.
2. The standby power system uses only one or more of the following as fuel:
 - i. Biodiesel.
 - ii. Diesel.
 - iii. Natural Gas.
 - iv. Propane
3. Each generation unit that is part of the standby power system and that uses diesel or biodiesel as fuel,
 - i. has been designed by the manufacturer of the unit to meet, at a minimum, the Tier 1 Emission Standards set out in Table 1 of 40 CFR 89.112 (United States), or
 - ii. is equipped with pollution control equipment specified by the manufacturer of the equipment to limit the discharge of contaminants so that the unit, at a minimum, meets the Tier 1 Emission Standards set out in Table 1 of 40 CFR 89.112 (United States).
4. Each generator unit that is part of the standby power system and that uses propane or natural gas as fuel,
 - i. has been designed by the manufacturer of the unit to discharge a maximum of 9.2 grams of nitrogen oxides per kilowatt hour, or
 - ii. is equipped with pollution control equipment specified by the manufacturer of the equipment to limit the discharge of nitrogen oxides to a maximum of 9.2 grams per kilowatt hour. O. Reg. 14/17, s. 2 (5).

And

4. (1) 5 Each exhaust stack that may discharge a product of combustion is free of impediments that would prevent the flow of emissions.

The new generators are expected to meet the O.Reg. 524/98 conditions at minimum. Thus, these sources are not expected to have any notable air quality effects and are not assessed further in this memo. The proposed changes to Well #2, Well #5 and the Janet Avenue Pumping Station were assessed qualitatively in the previous memo.

Given the above, the quantitative assessment focussed on the proposed changes to the WRRF, since it is the only alteration expected to have a notable effect on air quality based on its increasing footprint and capacity. The WRRF location and property boundary are shown in Appendix A.



Methodology

The Nobleton WRRF produces a variety of air contaminants as a result of physical, chemical and biological processes. In addition to these processes, there is also auxiliary/support equipment such as heating, ventilation, and air conditioning (HVAC) equipment and emergency generators that also produce emissions. In our experience with similar facilities, besides odour, specific air contaminants of concern that are usually found through sampling include:

- Total Reduced Sulphur (TRS);
- Hydrogen Sulphide (H₂S);
- Ammonia (NH₃);
- Sulphur Dioxide (SO₂); and
- Nitrogen Oxides (NO_x).

The above compounds are included in this assessment along with odour.

The most significant emission sources from the facility were identified as:

- the sludge loading area;
- an emergency diesel-fired generator; and
- three natural gas-fired air make-up units (AMUs).

No sludge loading occurred during a site visit conducted on June 16, 2021. However, RWDI noted strong odours coming from vents for the sludge holding area. In the absence of sludge loading activities, these vents were noted to be a source of odour on site but their odour was not noticeable half-way along the WRRF driveway nor offsite near the closest residence to the north. Furthermore, sludge loading activities are expected to generate more odours due to the disturbance and movement of sludge and should dominate compared to the holding area vents. Therefore, the worst-case operating scenario includes only sludge loading in the quantitative assessment and not the holding area vents which were considered insignificant in comparison to other odours onsite.

Future conditions as part of the WRRF expansion were not assessed due to limited odour information available, however, a future scenario will be included as part of an updated assessment for the detailed design once additional odour data becomes available. That assessment will be submitted for MECP review and comment.

The assessment follows Ontario Regulation 419/05 and guidance developed by the MECP. Air dispersion modelling was conducted using the AERMOD air dispersion model (Version 19191) and in accordance with Guideline A-11: Air Dispersion Modelling Guideline for Ontario Version 3.0 (February 2017). Natural gas combustion sources (e.g. HVAC equipment) and the standby generator, were modelled as point sources, while the load-out activities were assessed as a volume source per industry-standard techniques. Results were assessed against criteria outlined in the MECP publication



“Air Contaminant Benchmark (ACB) List: Standards, guidelines and screening levels for assessing point of impingement” and the Technical Bulletin; Methodology for Modelling Assessments of Contaminants with 10-Minute Average Standards and Guidelines under O.Reg. 419. Air quality effects from construction activities are not assessed.

According to the Technical Bulletin; Methodology for Modelling Assessments of Contaminants with 10-Minute Average Standards, site-specific meteorological data must be used for odour frequency assessments. Site-specific meteorology was not immediately available for this location and the assessment used a standard meteorological data set from the MECP since it will capture the appropriate order of magnitude effects at this stage in the design. The Central Region meteorological data set was chosen based on location of this facility. This includes surface data from Pearson International Airport in Toronto and upper air data from Buffalo, New York. Within each region, the MECP provides alternative data sets with the choice of data set depending on the character of the terrain at the study site. The default data set for “crops” was used. A wind rose for the Toronto crops (AERMET v.19191) data set is provided in Figure 2. The use of site-specific meteorological data during the detailed design stage will be implemented to align with the technical bulletin.

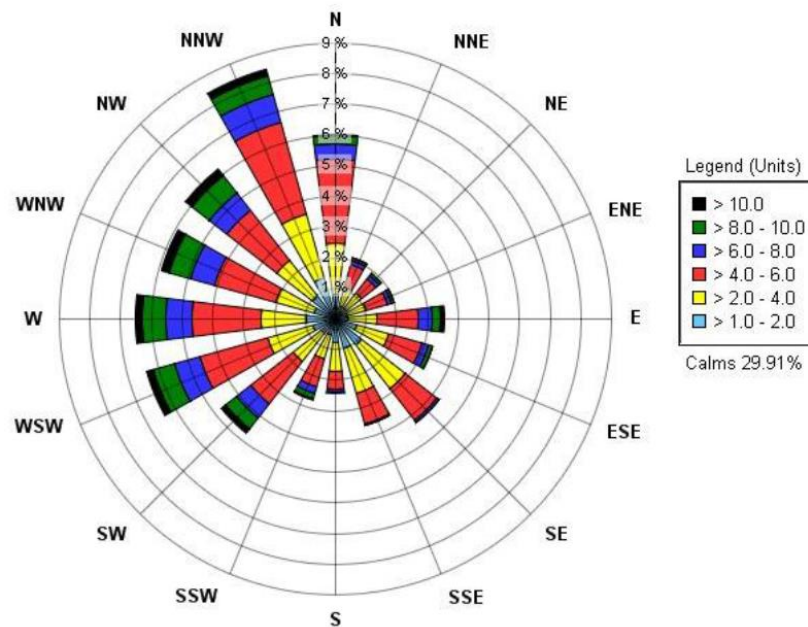


Figure 2: Toronto Crops (AERMET v.19191) Wind Rose

An AERMOD air dispersion model was prepared to assess a reasonable worst-case operating condition of the existing facility which involved the simultaneous operation of the following sources:

- A truck receiving sludge at the loading area;
- All natural gas-fired equipment; and
- The standby generator.



In the absence of facility-specific emission data, RWDI reviewed historical projects that included comparable facilities to obtain surrogate data for model inputs. Data was considered comparable and relevant to the WRRF assessment if it originated from a facility that had a similar maximum capacity and process. The reviewed data suggested that emission rates of comparable facilities vary by a large margin. Given the large variability, RWDI selected data in the middle of the range with the upper range being as much as four times higher. This assumption may not be conservative relative to the actual operation of the WRRF as it is hard to confirm if sludge loading was conducted differently at the historical projects, but is expected to be representative. Source measurements would be required to quantify these sources more reliably. The emission data is summarized in Table 1.

Table 1: Assumed Emission Rates

Contaminant	Emission Rate (g/s)
Hydrogen Sulphide	6.55×10^{-3}
Total Reduced Sulphur Compounds	6.67×10^{-3}
Ammonia	1.61×10^{-4}
Odour	11,147 (OU/s)*
Oxides of Nitrogen	2.36
Sulphur Dioxide	1.55×10^{-1}

Notes:

* OU = Odour units.

The MECP odour guidance indicates that levels should be below 1 odour unit per cubic meter (OU/m³) at a sensitive receptor location. Odour levels above 1 OU/m³ are considered acceptable if the frequency of occurrence is less than 0.5% of the time based on a 5-year modelling period¹.

Findings

The maximum predicted concentrations based on the worst-case existing operating scenario are summarized in Table A1 in Appendix A. All contaminants are predicted to be below the applicable limits with the exception of odour.

¹ Technical Bulletin; Methodology for Modelling Assessments of Contaminants with 10-Minute Average Standards and Guidelines under O.Reg. 419/05, September 2016

For odour, the WRRF was expected to be within the 1 OU/m³ MECP limit at sensitive receptor locations; however, the maximum predicted 10-minute odour concentration for the existing conditions (i.e., without considering any expansion) was 17.6 OU/m³ at the nearest sensitive receptor R1 to the north of the facility (see Figure 2). Hence, further assessment of the future conditions was not considered and a frequency analysis was conducted to determine the percentage of time that predicted existing odour levels would exceed 1 OU/m³. Refer to Table A2, in Appendix A, for the frequency results. Modelling outputs are provided in Appendix B at the end of this memo.



Figure 2: Receptor Location

The frequency analysis determined that the frequency of non-conformances of the MECP limit was 0.57% just above the accepted 0.5% threshold. Therefore, odour mitigation is recommended to be incorporated into the future design based on the current analysis.

Given the predicted elevated at-receptor odour concentration (both at the outdoor amenity space and the second storey window), odour complaints are anticipated. However, since there is no historical evidence of complaints at the nearest residence, the odour assessment may overestimate the existing conditions or the residents may be accustomed to the odours, as odour is subjective, and detection varies from person to person.

The recommendation to mitigate odours is based on the information currently available. The odour emission data is approximate and could be refined. The odour analysis could be re-visited at the detailed design stage, particularly improved odour emissions with either better surrogate data or on-site measurements, to verify the accuracy of the results. Better surrogate data can include sampling conducted at other local water treatment facilities at other towns/municipalities that have similar design. In lieu of better surrogate data, sampling can be conducted on site to obtain representative emission rates. If site-specific sampling is conducted, it should be during sludge loading activities to obtain a representative worst-case scenario. Revising the odour data may not eliminate the need for odour mitigation but would confirm the need for mitigation and refine its design.



If more detailed odour assessment is not considered, mitigation for the truck loading activities must be designed. Mitigation options could include enclosing the truck load-out area and putting odour controls (e.g., biofilter) on any associated vents. Such design measures are not uncommon for sludge handling operations at similar facilities. Given the potency of existing sludge storage vent odours observed at the site, mitigation may be warranted.

The predicted odour levels represent existing conditions and were not carried further since non-conformances were predicted. If the emission rates were scaled to represent the future condition, it would only increase the predicted future levels. Hence, either physical mitigation is necessary based on the current analysis or the odour analysis must be refined to confirm the need for mitigation.

Future zoning changes in the area could potentially create additional sensitive receptors which would need to be included in the modelling. As of the date of this report, there is no available information on any future zoning changes in the area or potential future sensitive receptors to be included in this assessment. The WRRF is already permitted to operate, and this assessment was completed to assess the potential air quality effects related to the wastewater servicing improvements. Should zoning changes or the introduction of sensitive receptors occur in the future, the developers of the new land uses will be obligated to consider the influence of the WRRF in the area. The land use planning authority would ensure this future assessment occurs for any potential land use changes.

Conclusion

The proposed WRRF improvements outlined earlier are typical of those necessary to meet the demand of a growing community. Modelling of existing operations indicate that there may already be odour non-conformances at the nearest existing residence, and some other contaminants are close to their thresholds.

Since there is no history of complaints, the modelled emissions may not be representative. Further refinement of odour emissions is recommended during the detail design stage which could include site-specific odour sampling. For outdoor/fugitive sources, a field odour survey can be conducted using portable dilution meters (known as olfactometers) which helps to validate odour levels at discrete locations (e.g., at property lines or receptors). For indoor/contained sources concentrated samples can be taken to be analyzed using an accredited odour panel. Odour emission rates are then derived from the site-specific data collected. Alternatively, physical mitigation measures must be considered for the sludge holding and handling area. Such mitigation could include an enclosed ventilated load-out area for the sludge transfer or other physical mitigation.

Since future conditions as part of the WRRF expansion were not assessed specifically, physical mitigation may be warranted regardless of any revised odour assessment. The identification of detailed mitigation measures will be completed during the detailed design stage of this project and will include consultation with the MECP, odour sampling, if better surrogate data is not available at the time, and review of the MECP's "Best Management Practices for Industrial Sources of Odour". The work will include the WRRF expansion.



Water Resource Recovery Facility (WRRF)
Nobleton, Ontario
RWDI 1701163
February 7, 2022

When a detailed design plan has been completed, the facility will apply for an Environmental Compliance Approval in consultation with all relevant standards and the following documents:

- a. Draft Guideline to Address Odour Mixtures in Ontario (MECP, May 2021):
<https://ero.ontario.ca/notice/019-2768>
- b. Draft Technical Bulletin Methodology for Completing an Odour Assessment for Odour Mixtures (MECP, March 2021): <https://prod-environmental-registry.s3.amazonaws.com/2021-03/Draft%20Odour%20Assessment%20Technical%20Bulletin%202021.pdf>

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APPENDIX A

Table 1 - Emission Summary Table

RWDI# 1701163

Nobleton WRRF

Receptor	Contaminant	CAS Number	Total Facility Emission Rate (g/s)	Air Dispersion Model Used	Maximum POI Concentration (µg/m³)	Averaging Period (hours)	MECP POI Limit ^[1] (µg/m³)	Limiting Effect	Regulation Schedule #	Benchmark Category ^[2]	Percentage of MECP POI Limit (%)
R1 - Residential	Hydrogen sulphide	7783-06-4	6.55E-03	AERMOD	10.3	0.167	13	Odour	Schedule 3	B1	79%
Property Line	Hydrogen sulphide	7783-06-4	6.55E-03	AERMOD	6.3	24	7	Health	Schedule 3	B1	90%
R1 - Residential	Total Reduced Sulphur (TRS) Compounds	N/A-TRS	6.67E-03	AERMOD	10.5	0.167	13	Odour	Schedule 3	B1	81%
Property Line	Total Reduced Sulphur (TRS) Compounds	N/A-TRS	6.67E-03	AERMOD	6.4	24	7	Health	Schedule 3	B1	92%
Property Line	Ammonia	7664-41-7	1.61E-04	AERMOD	2E-01	24	100	Health	Schedule 3	B1	<1%
R1 - Residential	Odour	N/A	11,147 OU/s	AERMOD	17.6 (OU/m³)	0.167	1.0 OU/m3	Odour	N/A	N/A	Above FE ^[3]
Property Line	Oxides of Nitrogen	10102-44-0	2.36E+00	AERMOD	991	0.5	1880	Health	Schedule 3	N/A	53%
Property Line	Oxides of Nitrogen	10102-44-0	2.36E+00	AERMOD	70	1	400	Health	Schedule 3	B1	17%
Property Line	Oxides of Nitrogen	10102-44-0	2.36E+00	AERMOD	27	24	200	Health	Schedule 3	B1	14%
Property Line	Sulphur dioxide	7446-09-5	1.55E-01	AERMOD	55	1	690	Health & Vegetation	Schedule 3	B1	8%
Property Line	Sulphur dioxide	7446-09-5	1.55E-01	AERMOD	33	24	275	Health & Vegetation	Schedule 3	B1	12%

Notes:

[1] The term "MECP POI Limit" identified in Table D-4 of Guideline A-10 refers to the following information (there may be more than one relevant MECP POI Limit for each contaminant):

- Air quality Standards, Guidelines or SL-JSLs set out the MECP publication, "Air Contaminants Benchmark (ACB) List: Standards, guidelines and screening levels for assessing point of impingement
- The Daily Assessment Values (DAV) from the MECP ACB List;
- The Annual Assessment Values (AAV) from the MECP ACB List; or,
- Upper Risk Threshold (URT) from the MECP ACB List; or,
- An acceptable concentration for contaminants with no standards or guidelines.

[2] Benchmark Categories are set out in the MECP ACB List; Benchmark 1 (B1) refers to Standards or Guidelines, Benchmark 2 (B2) refers to Screening Levels.

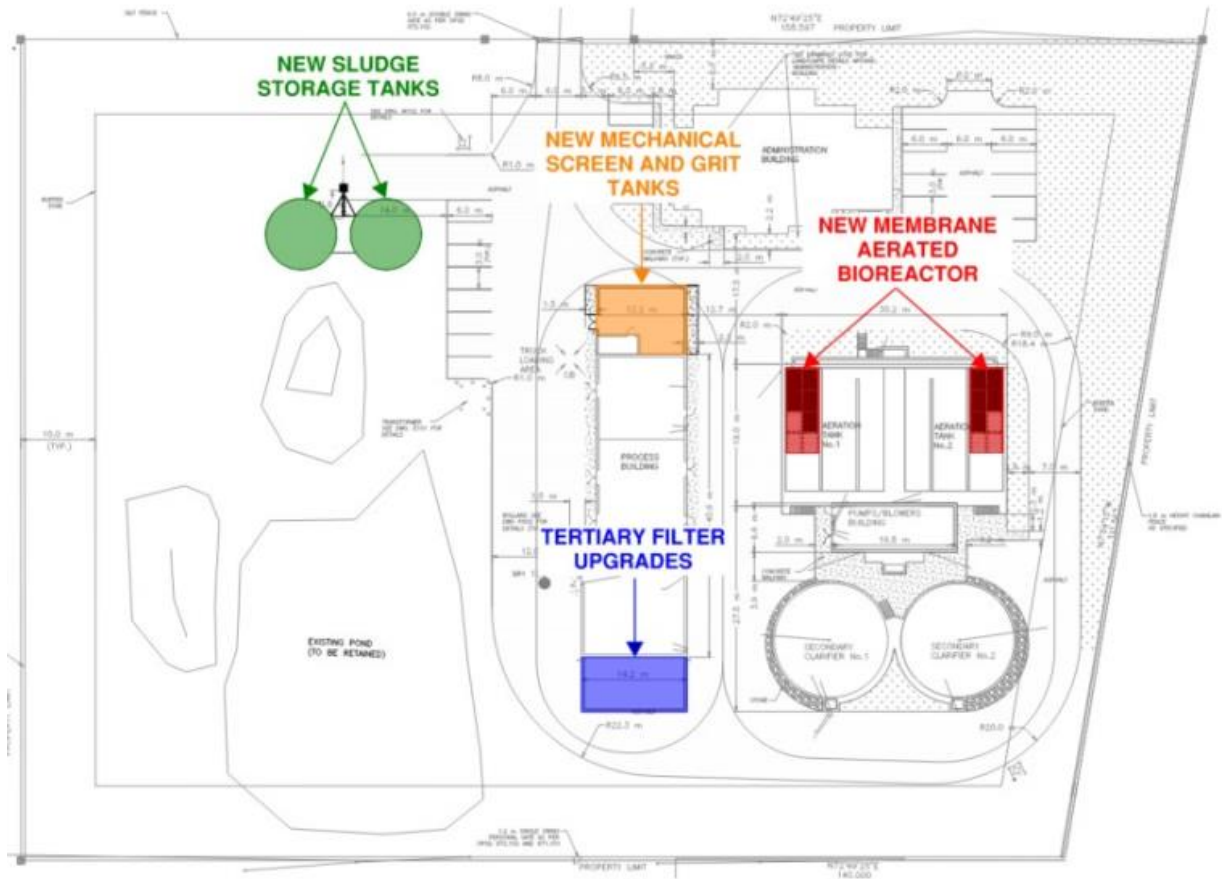
[3] Frequency of Exceedence, "Methodology for Modelling Assessments of Contaminants with 10-Minute Average Standards and Guidelines under O. Reg. 419/05" (April 2008)

Table 2: Odour Frequency Analysis

RWDI Project# 1701163

Nobleton WRRF

Receptor Information					Maximum Predicted 10-Minute Concentration (OU/m ³)	Predicted Excursions Above Specified 10-Minute Values					
ID#	Description	X	Y	Z		Events > 1 OU		Events > 3 OU		Events > 5 OU	
						Count	Frequency	Count	Frequency	Count	Frequency
R1	Residence	604987.3	4860621	1.5	17.6	243	0.566%	73	0.170%	45	0.105%
R2	Residence	604973	4860647.9	4.5	14.4	189	0.441%	64	0.149%	40	0.093%
42899	Hours of valid Meterological Data (enter number of VALID hours in met data file)										



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APPENDIX B

1	* AERMOD (19191): Nobleton Odour							07/13/21	
2	* AERMET (19191):								10:59:33
3	* MODELING OPTIONS USED: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*								
4	* MAXI-FILE FOR 1-HR VALUES >= A THRESHOLD OF 1.000								
5	* FOR SOURCE GROUP: ALL								
6	* FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)								
7	*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
8	*								
9	1	ALL	96010415	604987.25000	4860621.03000	250.14	250.14	1.50	1.70312
10	1	ALL	96011115	604987.25000	4860621.03000	250.14	250.14	1.50	2.03162
11	1	ALL	96011115	604972.97000	4860647.92000	250.74	250.74	4.50	2.61073
12	1	ALL	96011117	604987.25000	4860621.03000	250.14	250.14	1.50	2.83839
13	1	ALL	96011117	604972.97000	4860647.92000	250.74	250.74	4.50	2.75023
14	1	ALL	96011608	604987.25000	4860621.03000	250.14	250.14	1.50	1.65521
15	1	ALL	96011608	604972.97000	4860647.92000	250.74	250.74	4.50	1.35886
16	1	ALL	96011617	604987.25000	4860621.03000	250.14	250.14	1.50	1.59397
17	1	ALL	96011617	604972.97000	4860647.92000	250.74	250.74	4.50	1.22265
18	1	ALL	96011715	604987.25000	4860621.03000	250.14	250.14	1.50	12.39701
19	1	ALL	96011715	604972.97000	4860647.92000	250.74	250.74	4.50	12.54895
20	1	ALL	96011716	604987.25000	4860621.03000	250.14	250.14	1.50	10.95641
21	1	ALL	96011716	604972.97000	4860647.92000	250.74	250.74	4.50	10.26555
22	1	ALL	96011808	604987.25000	4860621.03000	250.14	250.14	1.50	2.59366
23	1	ALL	96011808	604972.97000	4860647.92000	250.74	250.74	4.50	2.72804
24	1	ALL	96011809	604987.25000	4860621.03000	250.14	250.14	1.50	2.06078
25	1	ALL	96011809	604972.97000	4860647.92000	250.74	250.74	4.50	1.94448
26	1	ALL	96011810	604987.25000	4860621.03000	250.14	250.14	1.50	1.84970
27	1	ALL	96011810	604972.97000	4860647.92000	250.74	250.74	4.50	1.70512
28	1	ALL	96011817	604987.25000	4860621.03000	250.14	250.14	1.50	1.16343
29	1	ALL	96012609	604987.25000	4860621.03000	250.14	250.14	1.50	10.74096
30	1	ALL	96012609	604972.97000	4860647.92000	250.74	250.74	4.50	10.40572
31	1	ALL	96012610	604987.25000	4860621.03000	250.14	250.14	1.50	1.14963
32	1	ALL	96021008	604987.25000	4860621.03000	250.14	250.14	1.50	7.39562
33	1	ALL	96021008	604972.97000	4860647.92000	250.74	250.74	4.50	6.01634
34	1	ALL	96021009	604987.25000	4860621.03000	250.14	250.14	1.50	2.94409
35	1	ALL	96021009	604972.97000	4860647.92000	250.74	250.74	4.50	3.05502
36	1	ALL	96021010	604987.25000	4860621.03000	250.14	250.14	1.50	2.50284
37	1	ALL	96021010	604972.97000	4860647.92000	250.74	250.74	4.50	1.24097
38	1	ALL	96021012	604987.25000	4860621.03000	250.14	250.14	1.50	1.22386
39	1	ALL	96021910	604987.25000	4860621.03000	250.14	250.14	1.50	1.41594
40	1	ALL	96021910	604972.97000	4860647.92000	250.74	250.74	4.50	1.26028
41	1	ALL	96022008	604987.25000	4860621.03000	250.14	250.14	1.50	5.14918
42	1	ALL	96022008	604972.97000	4860647.92000	250.74	250.74	4.50	5.13876
43	1	ALL	96022009	604987.25000	4860621.03000	250.14	250.14	1.50	2.15103
44	1	ALL	96022009	604972.97000	4860647.92000	250.74	250.74	4.50	1.31861
45	1	ALL	96022011	604987.25000	4860621.03000	250.14	250.14	1.50	1.20534
46	1	ALL	96022012	604987.25000	4860621.03000	250.14	250.14	1.50	2.00281
47	1	ALL	96022012	604972.97000	4860647.92000	250.74	250.74	4.50	1.85432
48	1	ALL	96022013	604987.25000	4860621.03000	250.14	250.14	1.50	2.09911
49	1	ALL	96022013	604972.97000	4860647.92000	250.74	250.74	4.50	1.63717
50	1	ALL	96022014	604987.25000	4860621.03000	250.14	250.14	1.50	2.34286
51	1	ALL	96022014	604972.97000	4860647.92000	250.74	250.74	4.50	1.96409
52	1	ALL	96022016	604987.25000	4860621.03000	250.14	250.14	1.50	1.31197
53	1	ALL	96022016	604972.97000	4860647.92000	250.74	250.74	4.50	1.31269
54	1	ALL	96022017	604987.25000	4860621.03000	250.14	250.14	1.50	2.48352
55	1	ALL	96022017	604972.97000	4860647.92000	250.74	250.74	4.50	2.61698
56	1	ALL	96022308	604987.25000	4860621.03000	250.14	250.14	1.50	4.59783
57	1	ALL	96022308	604972.97000	4860647.92000	250.74	250.74	4.50	2.16339
58	1	ALL	96042009	604987.25000	4860621.03000	250.14	250.14	1.50	1.08952
59	1	ALL	96042009	604972.97000	4860647.92000	250.74	250.74	4.50	1.08870
60	1	ALL	96042208	604987.25000	4860621.03000	250.14	250.14	1.50	1.08202
61	1	ALL	96091209	604987.25000	4860621.03000	250.14	250.14	1.50	1.11232
62	1	ALL	96101917	604987.25000	4860621.03000	250.14	250.14	1.50	1.01340
63	1	ALL	96102517	604987.25000	4860621.03000	250.14	250.14	1.50	2.17906
64	1	ALL	96102517	604972.97000	4860647.92000	250.74	250.74	4.50	2.08382
65	1	ALL	96102617	604987.25000	4860621.03000	250.14	250.14	1.50	2.39836
66	1	ALL	96102617	604972.97000	4860647.92000	250.74	250.74	4.50	2.54206
67	1	ALL	96110508	604987.25000	4860621.03000	250.14	250.14	1.50	9.13075

68	1	ALL	96110508	604972.97000	4860647.92000	250.74	250.74	4.50	5.54142
69	1	ALL	96110617	604987.25000	4860621.03000	250.14	250.14	1.50	5.26940
70	1	ALL	96110617	604972.97000	4860647.92000	250.74	250.74	4.50	3.37035
71	1	ALL	96110708	604987.25000	4860621.03000	250.14	250.14	1.50	1.13968
72	1	ALL	96110708	604972.97000	4860647.92000	250.74	250.74	4.50	1.09130
73	1	ALL	96111608	604987.25000	4860621.03000	250.14	250.14	1.50	5.10837
74	1	ALL	96111608	604972.97000	4860647.92000	250.74	250.74	4.50	5.29503
75	1	ALL	96112517	604987.25000	4860621.03000	250.14	250.14	1.50	1.82163
76	1	ALL	96112517	604972.97000	4860647.92000	250.74	250.74	4.50	1.77607
77	1	ALL	96113017	604987.25000	4860621.03000	250.14	250.14	1.50	1.06542
78	1	ALL	96120110	604987.25000	4860621.03000	250.14	250.14	1.50	1.14534
79	1	ALL	96120111	604987.25000	4860621.03000	250.14	250.14	1.50	1.10306
80	1	ALL	96120111	604972.97000	4860647.92000	250.74	250.74	4.50	1.07066
81	1	ALL	96121712	604987.25000	4860621.03000	250.14	250.14	1.50	1.26219
82	1	ALL	96121712	604972.97000	4860647.92000	250.74	250.74	4.50	1.12489
83	1	ALL	96122308	604987.25000	4860621.03000	250.14	250.14	1.50	4.58187
84	1	ALL	96122308	604972.97000	4860647.92000	250.74	250.74	4.50	4.23846
85	1	ALL	96122309	604987.25000	4860621.03000	250.14	250.14	1.50	2.59250
86	1	ALL	96122309	604972.97000	4860647.92000	250.74	250.74	4.50	2.72709
87	1	ALL	96122311	604987.25000	4860621.03000	250.14	250.14	1.50	1.43238
88	1	ALL	96122311	604972.97000	4860647.92000	250.74	250.74	4.50	1.49720
89	1	ALL	96122312	604987.25000	4860621.03000	250.14	250.14	1.50	1.91858
90	1	ALL	96122312	604972.97000	4860647.92000	250.74	250.74	4.50	1.82056
91	1	ALL	96122317	604987.25000	4860621.03000	250.14	250.14	1.50	1.36257
92	1	ALL	96122808	604987.25000	4860621.03000	250.14	250.14	1.50	4.92011
93	1	ALL	96122808	604972.97000	4860647.92000	250.74	250.74	4.50	4.24171
94	1	ALL	96122810	604987.25000	4860621.03000	250.14	250.14	1.50	12.15791
95	1	ALL	96122810	604972.97000	4860647.92000	250.74	250.74	4.50	5.69937
96	1	ALL	96122812	604987.25000	4860621.03000	250.14	250.14	1.50	14.38963
97	1	ALL	96122812	604972.97000	4860647.92000	250.74	250.74	4.50	12.52021
98	1	ALL	96123116	604987.25000	4860621.03000	250.14	250.14	1.50	15.09607
99	1	ALL	96123116	604972.97000	4860647.92000	250.74	250.74	4.50	14.38212
100	1	ALL	97010115	604987.25000	4860621.03000	250.14	250.14	1.50	1.98891
101	1	ALL	97010115	604972.97000	4860647.92000	250.74	250.74	4.50	1.83335
102	1	ALL	97010116	604987.25000	4860621.03000	250.14	250.14	1.50	1.10818
103	1	ALL	97010116	604972.97000	4860647.92000	250.74	250.74	4.50	1.13044
104	1	ALL	97010117	604987.25000	4860621.03000	250.14	250.14	1.50	1.40147
105	1	ALL	97010215	604987.25000	4860621.03000	250.14	250.14	1.50	3.49350
106	1	ALL	97010215	604972.97000	4860647.92000	250.74	250.74	4.50	1.56097
107	1	ALL	97010216	604972.97000	4860647.92000	250.74	250.74	4.50	1.02782
108	1	ALL	97010217	604987.25000	4860621.03000	250.14	250.14	1.50	2.59367
109	1	ALL	97010217	604972.97000	4860647.92000	250.74	250.74	4.50	2.72804
110	1	ALL	97012113	604987.25000	4860621.03000	250.14	250.14	1.50	1.20989
111	1	ALL	97012115	604987.25000	4860621.03000	250.14	250.14	1.50	1.09216
112	1	ALL	97012717	604987.25000	4860621.03000	250.14	250.14	1.50	1.43981
113	1	ALL	97013017	604987.25000	4860621.03000	250.14	250.14	1.50	1.31466
114	1	ALL	97020208	604987.25000	4860621.03000	250.14	250.14	1.50	16.47145
115	1	ALL	97020208	604972.97000	4860647.92000	250.74	250.74	4.50	11.05473
116	1	ALL	97020212	604987.25000	4860621.03000	250.14	250.14	1.50	1.47101
117	1	ALL	97020212	604972.97000	4860647.92000	250.74	250.74	4.50	1.57805
118	1	ALL	97020214	604987.25000	4860621.03000	250.14	250.14	1.50	1.62623
119	1	ALL	97020214	604972.97000	4860647.92000	250.74	250.74	4.50	1.75625
120	1	ALL	97020216	604987.25000	4860621.03000	250.14	250.14	1.50	2.15003
121	1	ALL	97020216	604972.97000	4860647.92000	250.74	250.74	4.50	2.38166
122	1	ALL	97022109	604987.25000	4860621.03000	250.14	250.14	1.50	14.95888
123	1	ALL	97022109	604972.97000	4860647.92000	250.74	250.74	4.50	8.39982
124	1	ALL	97022110	604987.25000	4860621.03000	250.14	250.14	1.50	13.25324
125	1	ALL	97022110	604972.97000	4860647.92000	250.74	250.74	4.50	8.93936
126	1	ALL	97022112	604987.25000	4860621.03000	250.14	250.14	1.50	2.43166
127	1	ALL	97022112	604972.97000	4860647.92000	250.74	250.74	4.50	2.51309
128	1	ALL	97022114	604987.25000	4860621.03000	250.14	250.14	1.50	1.87933
129	1	ALL	97022114	604972.97000	4860647.92000	250.74	250.74	4.50	1.80835
130	1	ALL	97022115	604987.25000	4860621.03000	250.14	250.14	1.50	2.71178
131	1	ALL	97022115	604972.97000	4860647.92000	250.74	250.74	4.50	2.10665
132	1	ALL	97022812	604987.25000	4860621.03000	250.14	250.14	1.50	1.32281
133	1	ALL	97022812	604972.97000	4860647.92000	250.74	250.74	4.50	1.21736
134	1	ALL	97030115	604987.25000	4860621.03000	250.14	250.14	1.50	1.32123
135	1	ALL	97032109	604987.25000	4860621.03000	250.14	250.14	1.50	2.42273
136	1	ALL	97032109	604972.97000	4860647.92000	250.74	250.74	4.50	2.07518

137	1	ALL	97032110	604987.25000	4860621.03000	250.14	250.14	1.50	1.54915
138	1	ALL	97032110	604972.97000	4860647.92000	250.74	250.74	4.50	1.07217
139	1	ALL	97032514	604987.25000	4860621.03000	250.14	250.14	1.50	1.20479
140	1	ALL	97032809	604987.25000	4860621.03000	250.14	250.14	1.50	1.12477
141	1	ALL	97040510	604987.25000	4860621.03000	250.14	250.14	1.50	1.43205
142	1	ALL	97040510	604972.97000	4860647.92000	250.74	250.74	4.50	1.01127
143	1	ALL	97040512	604987.25000	4860621.03000	250.14	250.14	1.50	1.28569
144	1	ALL	97040512	604972.97000	4860647.92000	250.74	250.74	4.50	1.13613
145	1	ALL	97042709	604987.25000	4860621.03000	250.14	250.14	1.50	1.39071
146	1	ALL	97042709	604972.97000	4860647.92000	250.74	250.74	4.50	1.01168
147	1	ALL	97060708	604987.25000	4860621.03000	250.14	250.14	1.50	1.04038
148	1	ALL	97082610	604987.25000	4860621.03000	250.14	250.14	1.50	1.01953
149	1	ALL	97102417	604987.25000	4860621.03000	250.14	250.14	1.50	4.32822
150	1	ALL	97102417	604972.97000	4860647.92000	250.74	250.74	4.50	4.53189
151	1	ALL	97112917	604987.25000	4860621.03000	250.14	250.14	1.50	5.83827
152	1	ALL	97112917	604972.97000	4860647.92000	250.74	250.74	4.50	3.95631
153	1	ALL	97120309	604987.25000	4860621.03000	250.14	250.14	1.50	3.87681
154	1	ALL	97120309	604972.97000	4860647.92000	250.74	250.74	4.50	1.03083
155	1	ALL	97120313	604987.25000	4860621.03000	250.14	250.14	1.50	1.28451
156	1	ALL	97120816	604987.25000	4860621.03000	250.14	250.14	1.50	17.55249
157	1	ALL	97120816	604972.97000	4860647.92000	250.74	250.74	4.50	12.39425
158	1	ALL	97122409	604987.25000	4860621.03000	250.14	250.14	1.50	8.08671
159	1	ALL	97122409	604972.97000	4860647.92000	250.74	250.74	4.50	8.37301
160	1	ALL	97122410	604987.25000	4860621.03000	250.14	250.14	1.50	1.86047
161	1	ALL	97122410	604972.97000	4860647.92000	250.74	250.74	4.50	1.83029
162	1	ALL	97122411	604987.25000	4860621.03000	250.14	250.14	1.50	1.30676
163	1	ALL	97122411	604972.97000	4860647.92000	250.74	250.74	4.50	1.04588
164	1	ALL	97122915	604987.25000	4860621.03000	250.14	250.14	1.50	1.91192
165	1	ALL	97122915	604972.97000	4860647.92000	250.74	250.74	4.50	1.85069
166	1	ALL	97122917	604987.25000	4860621.03000	250.14	250.14	1.50	13.28289
167	1	ALL	97122917	604972.97000	4860647.92000	250.74	250.74	4.50	9.77284
168	1	ALL	98010511	604987.25000	4860621.03000	250.14	250.14	1.50	6.03684
169	1	ALL	98010511	604972.97000	4860647.92000	250.74	250.74	4.50	1.83005
170	1	ALL	98010512	604987.25000	4860621.03000	250.14	250.14	1.50	3.14900
171	1	ALL	98010512	604972.97000	4860647.92000	250.74	250.74	4.50	1.08898
172	1	ALL	98010910	604987.25000	4860621.03000	250.14	250.14	1.50	9.17512
173	1	ALL	98010910	604972.97000	4860647.92000	250.74	250.74	4.50	9.27986
174	1	ALL	98010912	604987.25000	4860621.03000	250.14	250.14	1.50	1.91430
175	1	ALL	98011213	604987.25000	4860621.03000	250.14	250.14	1.50	1.40608
176	1	ALL	98011213	604972.97000	4860647.92000	250.74	250.74	4.50	1.10977
177	1	ALL	98011215	604987.25000	4860621.03000	250.14	250.14	1.50	1.26633
178	1	ALL	98011216	604987.25000	4860621.03000	250.14	250.14	1.50	1.60419
179	1	ALL	98012316	604987.25000	4860621.03000	250.14	250.14	1.50	1.65149
180	1	ALL	98012316	604972.97000	4860647.92000	250.74	250.74	4.50	1.55395
181	1	ALL	98012812	604987.25000	4860621.03000	250.14	250.14	1.50	2.85755
182	1	ALL	98012812	604972.97000	4860647.92000	250.74	250.74	4.50	3.54902
183	1	ALL	98012908	604987.25000	4860621.03000	250.14	250.14	1.50	4.02368
184	1	ALL	98012908	604972.97000	4860647.92000	250.74	250.74	4.50	3.93826
185	1	ALL	98012909	604987.25000	4860621.03000	250.14	250.14	1.50	4.31972
186	1	ALL	98012909	604972.97000	4860647.92000	250.74	250.74	4.50	4.11708
187	1	ALL	98012910	604987.25000	4860621.03000	250.14	250.14	1.50	1.35847
188	1	ALL	98012910	604972.97000	4860647.92000	250.74	250.74	4.50	1.43151
189	1	ALL	98012911	604987.25000	4860621.03000	250.14	250.14	1.50	1.61709
190	1	ALL	98012911	604972.97000	4860647.92000	250.74	250.74	4.50	1.52481
191	1	ALL	98020115	604987.25000	4860621.03000	250.14	250.14	1.50	1.10647
192	1	ALL	98020115	604972.97000	4860647.92000	250.74	250.74	4.50	1.08134
193	1	ALL	98020817	604987.25000	4860621.03000	250.14	250.14	1.50	3.33901
194	1	ALL	98020817	604972.97000	4860647.92000	250.74	250.74	4.50	3.56293
195	1	ALL	98020916	604987.25000	4860621.03000	250.14	250.14	1.50	1.23718
196	1	ALL	98020916	604972.97000	4860647.92000	250.74	250.74	4.50	1.34032
197	1	ALL	98021015	604987.25000	4860621.03000	250.14	250.14	1.50	1.46627
198	1	ALL	98021015	604972.97000	4860647.92000	250.74	250.74	4.50	1.32872
199	1	ALL	98021016	604987.25000	4860621.03000	250.14	250.14	1.50	1.45045
200	1	ALL	98021016	604972.97000	4860647.92000	250.74	250.74	4.50	1.44610
201	1	ALL	98021113	604987.25000	4860621.03000	250.14	250.14	1.50	1.19136
202	1	ALL	98021514	604987.25000	4860621.03000	250.14	250.14	1.50	1.00295
203	1	ALL	98021516	604987.25000	4860621.03000	250.14	250.14	1.50	1.30026
204	1	ALL	98021517	604987.25000	4860621.03000	250.14	250.14	1.50	1.78011
205	1	ALL	98021517	604972.97000	4860647.92000	250.74	250.74	4.50	1.72030

206	1	ALL	98022617	604987.25000	4860621.03000	250.14	250.14	1.50	3.50600
207	1	ALL	98022617	604972.97000	4860647.92000	250.74	250.74	4.50	2.69614
208	1	ALL	98022814	604987.25000	4860621.03000	250.14	250.14	1.50	1.60433
209	1	ALL	98022814	604972.97000	4860647.92000	250.74	250.74	4.50	1.12336
210	1	ALL	98030608	604987.25000	4860621.03000	250.14	250.14	1.50	1.62810
211	1	ALL	98030608	604972.97000	4860647.92000	250.74	250.74	4.50	1.51506
212	1	ALL	98030615	604987.25000	4860621.03000	250.14	250.14	1.50	1.07915
213	1	ALL	98040108	604987.25000	4860621.03000	250.14	250.14	1.50	1.00293
214	1	ALL	98040110	604987.25000	4860621.03000	250.14	250.14	1.50	1.32243
215	1	ALL	98040110	604972.97000	4860647.92000	250.74	250.74	4.50	1.15112
216	1	ALL	98041308	604987.25000	4860621.03000	250.14	250.14	1.50	1.38587
217	1	ALL	98041308	604972.97000	4860647.92000	250.74	250.74	4.50	1.15629
218	1	ALL	98062608	604987.25000	4860621.03000	250.14	250.14	1.50	1.11789
219	1	ALL	98070408	604987.25000	4860621.03000	250.14	250.14	1.50	1.39079
220	1	ALL	98070408	604972.97000	4860647.92000	250.74	250.74	4.50	1.15214
221	1	ALL	98101210	604987.25000	4860621.03000	250.14	250.14	1.50	1.28336
222	1	ALL	98101210	604972.97000	4860647.92000	250.74	250.74	4.50	1.17500
223	1	ALL	98101617	604987.25000	4860621.03000	250.14	250.14	1.50	1.34890
224	1	ALL	98101617	604972.97000	4860647.92000	250.74	250.74	4.50	1.15406
225	1	ALL	98101709	604987.25000	4860621.03000	250.14	250.14	1.50	1.15170
226	1	ALL	98101709	604972.97000	4860647.92000	250.74	250.74	4.50	1.08278
227	1	ALL	98101717	604987.25000	4860621.03000	250.14	250.14	1.50	1.76957
228	1	ALL	98101717	604972.97000	4860647.92000	250.74	250.74	4.50	1.56424
229	1	ALL	98102709	604987.25000	4860621.03000	250.14	250.14	1.50	1.15481
230	1	ALL	98110817	604987.25000	4860621.03000	250.14	250.14	1.50	4.15845
231	1	ALL	98110817	604972.97000	4860647.92000	250.74	250.74	4.50	4.35562
232	1	ALL	98110917	604987.25000	4860621.03000	250.14	250.14	1.50	2.80909
233	1	ALL	98110917	604972.97000	4860647.92000	250.74	250.74	4.50	2.83508
234	1	ALL	98111408	604987.25000	4860621.03000	250.14	250.14	1.50	3.55328
235	1	ALL	98111408	604972.97000	4860647.92000	250.74	250.74	4.50	1.03251
236	1	ALL	98111611	604987.25000	4860621.03000	250.14	250.14	1.50	1.65908
237	1	ALL	98111611	604972.97000	4860647.92000	250.74	250.74	4.50	1.28791
238	1	ALL	98111612	604987.25000	4860621.03000	250.14	250.14	1.50	1.26815
239	1	ALL	98111817	604987.25000	4860621.03000	250.14	250.14	1.50	3.69279
240	1	ALL	98111817	604972.97000	4860647.92000	250.74	250.74	4.50	3.14154
241	1	ALL	98111908	604987.25000	4860621.03000	250.14	250.14	1.50	1.79241
242	1	ALL	98111908	604972.97000	4860647.92000	250.74	250.74	4.50	1.14634
243	1	ALL	98112509	604987.25000	4860621.03000	250.14	250.14	1.50	2.35202
244	1	ALL	98112509	604972.97000	4860647.92000	250.74	250.74	4.50	1.10064
245	1	ALL	98112908	604987.25000	4860621.03000	250.14	250.14	1.50	2.11404
246	1	ALL	98112917	604987.25000	4860621.03000	250.14	250.14	1.50	2.28010
247	1	ALL	98112917	604972.97000	4860647.92000	250.74	250.74	4.50	1.71621
248	1	ALL	98120608	604987.25000	4860621.03000	250.14	250.14	1.50	16.58837
249	1	ALL	98120608	604972.97000	4860647.92000	250.74	250.74	4.50	11.10119
250	1	ALL	98120610	604987.25000	4860621.03000	250.14	250.14	1.50	2.26372
251	1	ALL	98120611	604987.25000	4860621.03000	250.14	250.14	1.50	2.67247
252	1	ALL	98120611	604972.97000	4860647.92000	250.74	250.74	4.50	2.96693
253	1	ALL	98120615	604987.25000	4860621.03000	250.14	250.14	1.50	6.09848
254	1	ALL	98120615	604972.97000	4860647.92000	250.74	250.74	4.50	4.80048
255	1	ALL	98120616	604987.25000	4860621.03000	250.14	250.14	1.50	12.72475
256	1	ALL	98120616	604972.97000	4860647.92000	250.74	250.74	4.50	9.43804
257	1	ALL	98120617	604987.25000	4860621.03000	250.14	250.14	1.50	5.08782
258	1	ALL	98120617	604972.97000	4860647.92000	250.74	250.74	4.50	5.53913
259	1	ALL	98121616	604987.25000	4860621.03000	250.14	250.14	1.50	15.06207
260	1	ALL	98121616	604972.97000	4860647.92000	250.74	250.74	4.50	14.33448
261	1	ALL	98121617	604987.25000	4860621.03000	250.14	250.14	1.50	1.30665
262	1	ALL	98121617	604972.97000	4860647.92000	250.74	250.74	4.50	1.39872
263	1	ALL	98121813	604987.25000	4860621.03000	250.14	250.14	1.50	1.19562
264	1	ALL	98121813	604972.97000	4860647.92000	250.74	250.74	4.50	1.09265
265	1	ALL	98121815	604987.25000	4860621.03000	250.14	250.14	1.50	1.16863
266	1	ALL	98122109	604987.25000	4860621.03000	250.14	250.14	1.50	2.45561
267	1	ALL	98122109	604972.97000	4860647.92000	250.74	250.74	4.50	2.62731
268	1	ALL	98122112	604987.25000	4860621.03000	250.14	250.14	1.50	3.79469
269	1	ALL	98122112	604972.97000	4860647.92000	250.74	250.74	4.50	4.45121
270	1	ALL	99010309	604987.25000	4860621.03000	250.14	250.14	1.50	1.37987
271	1	ALL	99010309	604972.97000	4860647.92000	250.74	250.74	4.50	1.41579
272	1	ALL	99011710	604987.25000	4860621.03000	250.14	250.14	1.50	11.44227
273	1	ALL	99011710	604972.97000	4860647.92000	250.74	250.74	4.50	5.36341
274	1	ALL	99011711	604987.25000	4860621.03000	250.14	250.14	1.50	1.69921

275	1	ALL	99011711	604972.97000	4860647.92000	250.74	250.74	4.50	1.88894
276	1	ALL	99011714	604987.25000	4860621.03000	250.14	250.14	1.50	1.62549
277	1	ALL	99011714	604972.97000	4860647.92000	250.74	250.74	4.50	1.24136
278	1	ALL	99012310	604987.25000	4860621.03000	250.14	250.14	1.50	1.55928
279	1	ALL	99012310	604972.97000	4860647.92000	250.74	250.74	4.50	1.32230
280	1	ALL	99012315	604987.25000	4860621.03000	250.14	250.14	1.50	1.54005
281	1	ALL	99012315	604972.97000	4860647.92000	250.74	250.74	4.50	1.34224
282	1	ALL	99012916	604987.25000	4860621.03000	250.14	250.14	1.50	14.70212
283	1	ALL	99012916	604972.97000	4860647.92000	250.74	250.74	4.50	8.32882
284	1	ALL	99013110	604987.25000	4860621.03000	250.14	250.14	1.50	1.27402
285	1	ALL	99013110	604972.97000	4860647.92000	250.74	250.74	4.50	1.21783
286	1	ALL	99013111	604987.25000	4860621.03000	250.14	250.14	1.50	1.24273
287	1	ALL	99013112	604987.25000	4860621.03000	250.14	250.14	1.50	1.02487
288	1	ALL	99013113	604987.25000	4860621.03000	250.14	250.14	1.50	1.32617
289	1	ALL	99013113	604972.97000	4860647.92000	250.74	250.74	4.50	1.01101
290	1	ALL	99013114	604987.25000	4860621.03000	250.14	250.14	1.50	1.36919
291	1	ALL	99020115	604987.25000	4860621.03000	250.14	250.14	1.50	1.37489
292	1	ALL	99020115	604972.97000	4860647.92000	250.74	250.74	4.50	1.42527
293	1	ALL	99020209	604987.25000	4860621.03000	250.14	250.14	1.50	15.89676
294	1	ALL	99020209	604972.97000	4860647.92000	250.74	250.74	4.50	9.81701
295	1	ALL	99020210	604987.25000	4860621.03000	250.14	250.14	1.50	10.62279
296	1	ALL	99020210	604972.97000	4860647.92000	250.74	250.74	4.50	10.99906
297	1	ALL	99020214	604987.25000	4860621.03000	250.14	250.14	1.50	1.69120
298	1	ALL	99020214	604972.97000	4860647.92000	250.74	250.74	4.50	1.85921
299	1	ALL	99021109	604987.25000	4860621.03000	250.14	250.14	1.50	12.37473
300	1	ALL	99021109	604972.97000	4860647.92000	250.74	250.74	4.50	11.29500
301	1	ALL	99021609	604987.25000	4860621.03000	250.14	250.14	1.50	7.72599
302	1	ALL	99021609	604972.97000	4860647.92000	250.74	250.74	4.50	8.17212
303	1	ALL	99021617	604987.25000	4860621.03000	250.14	250.14	1.50	3.49385
304	1	ALL	99021617	604972.97000	4860647.92000	250.74	250.74	4.50	2.03613
305	1	ALL	99022414	604987.25000	4860621.03000	250.14	250.14	1.50	1.00386
306	1	ALL	99022708	604987.25000	4860621.03000	250.14	250.14	1.50	14.84256
307	1	ALL	99022708	604972.97000	4860647.92000	250.74	250.74	4.50	14.17172
308	1	ALL	99022712	604987.25000	4860621.03000	250.14	250.14	1.50	1.13626
309	1	ALL	99022716	604987.25000	4860621.03000	250.14	250.14	1.50	1.02291
310	1	ALL	99022808	604987.25000	4860621.03000	250.14	250.14	1.50	1.12004
311	1	ALL	99040117	604987.25000	4860621.03000	250.14	250.14	1.50	1.04388
312	1	ALL	99040308	604987.25000	4860621.03000	250.14	250.14	1.50	2.57288
313	1	ALL	99040308	604972.97000	4860647.92000	250.74	250.74	4.50	1.59935
314	1	ALL	99040309	604987.25000	4860621.03000	250.14	250.14	1.50	1.86549
315	1	ALL	99040309	604972.97000	4860647.92000	250.74	250.74	4.50	1.23043
316	1	ALL	99040310	604987.25000	4860621.03000	250.14	250.14	1.50	1.47375
317	1	ALL	99040310	604972.97000	4860647.92000	250.74	250.74	4.50	1.02236
318	1	ALL	99042208	604972.97000	4860647.92000	250.74	250.74	4.50	1.03271
319	1	ALL	99052408	604987.25000	4860621.03000	250.14	250.14	1.50	1.65905
320	1	ALL	99052408	604972.97000	4860647.92000	250.74	250.74	4.50	1.44540
321	1	ALL	99092708	604987.25000	4860621.03000	250.14	250.14	1.50	1.19731
322	1	ALL	99100808	604987.25000	4860621.03000	250.14	250.14	1.50	2.44110
323	1	ALL	99100808	604972.97000	4860647.92000	250.74	250.74	4.50	2.04544
324	1	ALL	99101210	604987.25000	4860621.03000	250.14	250.14	1.50	1.06987
325	1	ALL	99101211	604987.25000	4860621.03000	250.14	250.14	1.50	1.09478
326	1	ALL	99101217	604987.25000	4860621.03000	250.14	250.14	1.50	1.10498
327	1	ALL	99110108	604987.25000	4860621.03000	250.14	250.14	1.50	5.26899
328	1	ALL	99110108	604972.97000	4860647.92000	250.74	250.74	4.50	5.42058
329	1	ALL	99111117	604987.25000	4860621.03000	250.14	250.14	1.50	2.50186
330	1	ALL	99111117	604972.97000	4860647.92000	250.74	250.74	4.50	2.56151
331	1	ALL	99111908	604987.25000	4860621.03000	250.14	250.14	1.50	6.93327
332	1	ALL	99111908	604972.97000	4860647.92000	250.74	250.74	4.50	6.19669
333	1	ALL	99112117	604987.25000	4860621.03000	250.14	250.14	1.50	3.09013
334	1	ALL	99112117	604972.97000	4860647.92000	250.74	250.74	4.50	2.15779
335	1	ALL	99112208	604987.25000	4860621.03000	250.14	250.14	1.50	3.30475
336	1	ALL	99112208	604972.97000	4860647.92000	250.74	250.74	4.50	3.29281
337	1	ALL	99112517	604987.25000	4860621.03000	250.14	250.14	1.50	2.56557
338	1	ALL	99112517	604972.97000	4860647.92000	250.74	250.74	4.50	2.26159
339	1	ALL	99120217	604987.25000	4860621.03000	250.14	250.14	1.50	4.12109
340	1	ALL	99120217	604972.97000	4860647.92000	250.74	250.74	4.50	4.49797
341	1	ALL	99120310	604987.25000	4860621.03000	250.14	250.14	1.50	1.40458
342	1	ALL	99120310	604972.97000	4860647.92000	250.74	250.74	4.50	1.82685
343	1	ALL	99121213	604987.25000	4860621.03000	250.14	250.14	1.50	2.57139

344	1	ALL	99121213	604972.97000	4860647.92000	250.74	250.74	4.50	1.98528
345	1	ALL	99121516	604987.25000	4860621.03000	250.14	250.14	1.50	4.69619
346	1	ALL	99121516	604972.97000	4860647.92000	250.74	250.74	4.50	3.73988
347	1	ALL	99121808	604987.25000	4860621.03000	250.14	250.14	1.50	4.62946
348	1	ALL	99121808	604972.97000	4860647.92000	250.74	250.74	4.50	4.67689
349	1	ALL	99121817	604987.25000	4860621.03000	250.14	250.14	1.50	6.84927
350	1	ALL	99121817	604972.97000	4860647.92000	250.74	250.74	4.50	7.04578
351	1	ALL	99122009	604987.25000	4860621.03000	250.14	250.14	1.50	1.68266
352	1	ALL	99122009	604972.97000	4860647.92000	250.74	250.74	4.50	1.68454
353	1	ALL	00010210	604987.25000	4860621.03000	250.14	250.14	1.50	4.38241
354	1	ALL	00010210	604972.97000	4860647.92000	250.74	250.74	4.50	4.48581
355	1	ALL	00010211	604987.25000	4860621.03000	250.14	250.14	1.50	3.02480
356	1	ALL	00011008	604987.25000	4860621.03000	250.14	250.14	1.50	2.52487
357	1	ALL	00011008	604972.97000	4860647.92000	250.74	250.74	4.50	1.71595
358	1	ALL	00011009	604987.25000	4860621.03000	250.14	250.14	1.50	1.59388
359	1	ALL	00011009	604972.97000	4860647.92000	250.74	250.74	4.50	1.22257
360	1	ALL	00011011	604987.25000	4860621.03000	250.14	250.14	1.50	1.07693
361	1	ALL	00011815	604987.25000	4860621.03000	250.14	250.14	1.50	5.71110
362	1	ALL	00011815	604972.97000	4860647.92000	250.74	250.74	4.50	5.18003
363	1	ALL	00012216	604987.25000	4860621.03000	250.14	250.14	1.50	12.79695
364	1	ALL	00012216	604972.97000	4860647.92000	250.74	250.74	4.50	12.86579
365	1	ALL	00012913	604987.25000	4860621.03000	250.14	250.14	1.50	1.77329
366	1	ALL	00012913	604972.97000	4860647.92000	250.74	250.74	4.50	1.69841
367	1	ALL	00013010	604987.25000	4860621.03000	250.14	250.14	1.50	6.00927
368	1	ALL	00013010	604972.97000	4860647.92000	250.74	250.74	4.50	5.59788
369	1	ALL	00013011	604987.25000	4860621.03000	250.14	250.14	1.50	1.23749
370	1	ALL	00013011	604972.97000	4860647.92000	250.74	250.74	4.50	1.54200
371	1	ALL	00013014	604972.97000	4860647.92000	250.74	250.74	4.50	1.14671
372	1	ALL	00013015	604987.25000	4860621.03000	250.14	250.14	1.50	8.75804
373	1	ALL	00013015	604972.97000	4860647.92000	250.74	250.74	4.50	6.75466
374	1	ALL	00013017	604987.25000	4860621.03000	250.14	250.14	1.50	1.89476
375	1	ALL	00013017	604972.97000	4860647.92000	250.74	250.74	4.50	2.02262
376	1	ALL	00020314	604987.25000	4860621.03000	250.14	250.14	1.50	1.08827
377	1	ALL	00020314	604972.97000	4860647.92000	250.74	250.74	4.50	1.22797
378	1	ALL	00020315	604987.25000	4860621.03000	250.14	250.14	1.50	3.76624
379	1	ALL	00020315	604972.97000	4860647.92000	250.74	250.74	4.50	3.56454
380	1	ALL	00022409	604987.25000	4860621.03000	250.14	250.14	1.50	4.11184
381	1	ALL	00022409	604972.97000	4860647.92000	250.74	250.74	4.50	1.79888
382	1	ALL	00022512	604987.25000	4860621.03000	250.14	250.14	1.50	2.47736
383	1	ALL	00022512	604972.97000	4860647.92000	250.74	250.74	4.50	1.72544
384	1	ALL	00022517	604987.25000	4860621.03000	250.14	250.14	1.50	2.71147
385	1	ALL	00022517	604972.97000	4860647.92000	250.74	250.74	4.50	2.20224
386	1	ALL	00022615	604987.25000	4860621.03000	250.14	250.14	1.50	1.00539
387	1	ALL	00022908	604987.25000	4860621.03000	250.14	250.14	1.50	3.58288
388	1	ALL	00022908	604972.97000	4860647.92000	250.74	250.74	4.50	3.56816
389	1	ALL	00022910	604987.25000	4860621.03000	250.14	250.14	1.50	1.71545
390	1	ALL	00022910	604972.97000	4860647.92000	250.74	250.74	4.50	1.14717
391	1	ALL	00031516	604987.25000	4860621.03000	250.14	250.14	1.50	1.03463
392	1	ALL	00032711	604987.25000	4860621.03000	250.14	250.14	1.50	1.05976
393	1	ALL	00032711	604972.97000	4860647.92000	250.74	250.74	4.50	1.01790
394	1	ALL	00040209	604987.25000	4860621.03000	250.14	250.14	1.50	1.67317
395	1	ALL	00040209	604972.97000	4860647.92000	250.74	250.74	4.50	1.57721
396	1	ALL	00052316	604987.25000	4860621.03000	250.14	250.14	1.50	1.05632
397	1	ALL	00052317	604987.25000	4860621.03000	250.14	250.14	1.50	1.22448
398	1	ALL	00091008	604987.25000	4860621.03000	250.14	250.14	1.50	1.38670
399	1	ALL	00091008	604972.97000	4860647.92000	250.74	250.74	4.50	1.14569
400	1	ALL	00101617	604987.25000	4860621.03000	250.14	250.14	1.50	1.46827
401	1	ALL	00101617	604972.97000	4860647.92000	250.74	250.74	4.50	1.50845
402	1	ALL	00102008	604987.25000	4860621.03000	250.14	250.14	1.50	3.75484
403	1	ALL	00102008	604972.97000	4860647.92000	250.74	250.74	4.50	4.02112
404	1	ALL	00102217	604987.25000	4860621.03000	250.14	250.14	1.50	5.61267
405	1	ALL	00102217	604972.97000	4860647.92000	250.74	250.74	4.50	4.86069
406	1	ALL	00102609	604987.25000	4860621.03000	250.14	250.14	1.50	1.26106
407	1	ALL	00102609	604972.97000	4860647.92000	250.74	250.74	4.50	1.34455
408	1	ALL	00102610	604987.25000	4860621.03000	250.14	250.14	1.50	1.32410
409	1	ALL	00102610	604972.97000	4860647.92000	250.74	250.74	4.50	1.24339
410	1	ALL	00110217	604987.25000	4860621.03000	250.14	250.14	1.50	2.11822
411	1	ALL	00110217	604972.97000	4860647.92000	250.74	250.74	4.50	2.19413
412	1	ALL	00110617	604987.25000	4860621.03000	250.14	250.14	1.50	1.65994


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1 *****
2 ** AERMOD Control Pathway
3 *****
4 **
5 **
6 CO STARTING
7 TITLEONE Nobleton Odour OU/S
8 MODELOPT DFAULT CONC
9 AVERTIME 1
10 POLLUTID ODOUR
11 FLAGPOLE 0.00
12 RUNORNOT RUN
13 ERRORFIL Nobltn_OU.err
14 CO FINISHED
15 **
16 *****
17 ** AERMOD Source Pathway
18 *****
19 **
20 **
21 SO STARTING
22 ** Source Location **
23 ** Source ID - Type - X Coord. - Y Coord. **
24 LOCATION VOL1 VOLUME 605189.452 4860459.875 246.000
25 ** DESCRSRC Truck>Loading
26 LOCATION STCK1 POINT 605199.650 4860442.270 245.980
27 ** DESCRSRC Generator Exhaust
28 LOCATION STCK2 POINTHOR 605195.220 4860501.730 246.820
29 ** DESCRSRC A/C
30 LOCATION STCK3 POINT 605200.840 4860446.240 246.000
31 ** DESCRSRC MAU1
32 LOCATION STCK4 POINT 605204.810 4860447.430 246.000
33 ** DESCRSRC MAU2
34 ** Source Parameters **
35 SRCPARAM VOL1 11147.0 3.500 0.465 4.116
36 SRCPARAM STCK1 0.0 8.000 734.150 34.83583 0.250
37 SRCPARAM STCK2 0.0 1.000 455.150 1.18836 0.150
38 SRCPARAM STCK3 0.0 6.550 455.150 1.67049 0.250
39 SRCPARAM STCK4 0.0 6.550 455.150 1.42603 0.250
40
41 ** Building Downwash **
42 BUILDHGT STCK1 8.85 8.85 8.85 8.85 7.65 7.65
43 BUILDHGT STCK1 7.65 7.65 7.65 7.65 7.65 7.65
44 BUILDHGT STCK1 7.65 8.85 8.85 8.85 8.85 8.85
45 BUILDHGT STCK1 8.85 8.85 8.85 8.85 7.65 7.65
46 BUILDHGT STCK1 7.65 7.65 7.65 7.65 7.65 7.65
47 BUILDHGT STCK1 7.65 8.85 8.85 8.85 8.85 8.85
48
49 BUILDHGT STCK2 8.85 5.70 0.00 0.00 0.00 5.70
50 BUILDHGT STCK2 5.70 5.70 5.70 5.70 5.70 5.70
51 BUILDHGT STCK2 5.70 5.70 5.70 5.70 5.70 5.70
52 BUILDHGT STCK2 5.70 5.70 0.00 0.00 0.00 5.70
53 BUILDHGT STCK2 5.70 5.70 5.70 5.70 5.70 5.70
54 BUILDHGT STCK2 5.70 5.70 5.70 8.85 8.85 8.85
55
56 BUILDHGT STCK3 8.85 8.85 8.85 8.85 8.85 7.65
57 BUILDHGT STCK3 4.85 4.85 7.65 7.65 8.85 8.85
58 BUILDHGT STCK3 8.85 8.85 8.85 8.85 8.85 8.85
59 BUILDHGT STCK3 8.85 8.85 8.85 8.85 8.85 7.65
60 BUILDHGT STCK3 4.85 4.85 7.65 7.65 8.85 8.85
61 BUILDHGT STCK3 8.85 8.85 8.85 8.85 8.85 8.85
62
63 BUILDHGT STCK4 8.85 8.85 8.85 8.85 7.65 7.65
64 BUILDHGT STCK4 4.85 4.85 4.85 8.85 8.85 8.85
65 BUILDHGT STCK4 8.85 8.85 8.85 8.85 8.85 8.85
66 BUILDHGT STCK4 8.85 8.85 8.85 8.85 7.65 7.65
67 BUILDHGT STCK4 4.85 4.85 4.85 8.85 8.85 8.85
68 BUILDHGT STCK4 8.85 8.85 8.85 8.85 8.85 8.85
69

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70	BUILDWID	STCK1	15.73	16.51	16.79	16.55	20.96	19.67
71	BUILDWID	STCK1	17.77	17.58	19.40	20.63	21.24	21.20
72	BUILDWID	STCK1	20.52	14.81	13.96	12.68	12.77	14.47
73	BUILDWID	STCK1	15.73	16.51	16.79	16.55	20.96	19.67
74	BUILDWID	STCK1	17.77	17.58	19.40	20.63	21.24	21.20
75	BUILDWID	STCK1	20.52	14.81	13.96	12.68	12.77	14.47
76								
77	BUILDWID	STCK2	15.73	31.69	0.00	0.00	0.00	23.70
78	BUILDWID	STCK2	21.56	22.02	23.69	25.92	28.89	31.24
79	BUILDWID	STCK2	32.64	33.05	32.45	30.87	31.23	32.37
80	BUILDWID	STCK2	32.52	31.69	0.00	0.00	0.00	23.70
81	BUILDWID	STCK2	21.56	22.02	23.69	25.92	28.89	31.24
82	BUILDWID	STCK2	32.64	33.05	32.45	12.68	12.77	14.47
83								
84	BUILDWID	STCK3	15.73	16.51	16.79	16.55	15.82	19.67
85	BUILDWID	STCK3	41.53	40.82	19.40	20.63	14.65	15.17
86	BUILDWID	STCK3	15.22	14.81	13.96	12.68	12.77	14.47
87	BUILDWID	STCK3	15.73	16.51	16.79	16.55	15.82	19.67
88	BUILDWID	STCK3	41.53	40.82	19.40	20.63	14.65	15.17
89	BUILDWID	STCK3	15.22	14.81	13.96	12.68	12.77	14.47
90								
91	BUILDWID	STCK4	15.73	16.51	16.79	16.55	20.96	19.67
92	BUILDWID	STCK4	41.53	40.82	40.78	13.69	14.65	15.17
93	BUILDWID	STCK4	15.22	14.81	13.96	12.68	12.77	14.47
94	BUILDWID	STCK4	15.73	16.51	16.79	16.55	20.96	19.67
95	BUILDWID	STCK4	41.53	40.82	40.78	13.69	14.65	15.17
96	BUILDWID	STCK4	15.22	14.81	13.96	12.68	12.77	14.47
97								
98	BUILDLN	STCK1	13.69	14.65	15.17	15.22	19.21	17.32
99	BUILDLN	STCK1	14.90	15.36	17.79	19.68	20.97	21.63
100	BUILDLN	STCK1	21.62	15.82	14.60	12.95	12.08	12.62
101	BUILDLN	STCK1	13.69	14.65	15.17	15.22	19.21	17.32
102	BUILDLN	STCK1	14.90	15.36	17.79	19.68	20.97	21.63
103	BUILDLN	STCK1	21.62	15.82	14.60	12.95	12.08	12.62
104								
105	BUILDLN	STCK2	13.69	28.89	0.00	0.00	0.00	32.45
106	BUILDLN	STCK2	30.87	31.23	32.37	32.52	31.69	29.89
107	BUILDLN	STCK2	28.53	26.52	23.70	21.56	22.02	23.69
108	BUILDLN	STCK2	25.92	28.89	0.00	0.00	0.00	32.45
109	BUILDLN	STCK2	30.87	31.23	32.37	32.52	31.69	29.89
110	BUILDLN	STCK2	28.53	26.52	23.70	12.95	12.08	12.62
111								
112	BUILDLN	STCK3	13.69	14.65	15.17	15.22	14.81	17.32
113	BUILDLN	STCK3	16.86	15.64	17.79	19.68	16.51	16.79
114	BUILDLN	STCK3	16.55	15.82	14.60	12.95	12.08	12.62
115	BUILDLN	STCK3	13.69	14.65	15.17	15.22	14.81	17.32
116	BUILDLN	STCK3	16.86	15.64	17.79	19.68	16.51	16.79
117	BUILDLN	STCK3	16.55	15.82	14.60	12.95	12.08	12.62
118								
119	BUILDLN	STCK4	13.69	14.65	15.17	15.22	19.21	17.32
120	BUILDLN	STCK4	16.86	15.64	22.25	15.73	16.51	16.79
121	BUILDLN	STCK4	16.55	15.82	14.60	12.95	12.08	12.62
122	BUILDLN	STCK4	13.69	14.65	15.17	15.22	19.21	17.32
123	BUILDLN	STCK4	16.86	15.64	22.25	15.73	16.51	16.79
124	BUILDLN	STCK4	16.55	15.82	14.60	12.95	12.08	12.62
125								
126	XBADJ	STCK1	9.06	7.89	6.47	4.86	-10.56	-7.81
127	XBADJ	STCK1	-4.82	-3.32	-2.94	-2.47	-1.92	-1.32
128	XBADJ	STCK1	-0.68	-21.00	-22.07	-22.46	-22.64	-22.58
129	XBADJ	STCK1	-22.75	-22.53	-21.64	-20.08	-8.65	-9.51
130	XBADJ	STCK1	-10.08	-12.04	-14.85	-17.21	-19.05	-20.31
131	XBADJ	STCK1	-20.95	5.18	7.46	9.52	10.56	9.96
132								
133	XBADJ	STCK2	-48.73	-17.41	0.00	0.00	0.00	-7.18
134	XBADJ	STCK2	-3.86	-1.75	-0.38	1.00	2.36	3.64
135	XBADJ	STCK2	3.46	2.96	2.38	1.72	-0.39	-3.36
136	XBADJ	STCK2	-7.12	-11.49	0.00	0.00	0.00	-25.27
137	XBADJ	STCK2	-27.02	-29.48	-31.99	-33.53	-34.04	-33.52
138	XBADJ	STCK2	-31.99	-29.48	-26.08	-47.87	-48.77	-49.50

139								
140	XBADJ	STCK3	4.94	3.75	2.44	1.05	-0.36	-10.83
141	XBADJ	STCK3	-7.30	-5.47	-4.13	-2.95	-13.97	-16.06
142	XBADJ	STCK3	-17.66	-18.73	-19.23	-19.14	-18.94	-18.61
143	XBADJ	STCK3	-18.63	-18.40	-17.60	-16.27	-14.45	-6.50
144	XBADJ	STCK3	-9.56	-10.18	-13.66	-16.73	-2.54	-0.73
145	XBADJ	STCK3	1.11	2.91	4.62	6.19	6.85	5.99
146								
147	XBADJ	STCK4	3.08	1.27	-0.58	-2.41	-17.83	-14.86
148	XBADJ	STCK4	-11.44	-9.58	-12.56	-15.16	-17.29	-18.90
149	XBADJ	STCK4	-19.94	-20.37	-20.18	-19.38	-18.46	-17.42
150	XBADJ	STCK4	-16.77	-15.92	-14.59	-12.81	-1.38	-2.46
151	XBADJ	STCK4	-5.42	-6.06	-9.69	-0.57	0.78	2.12
152	XBADJ	STCK4	3.38	4.55	5.57	6.43	6.37	4.80
153								
154	YBADJ	STCK1	3.11	5.95	8.62	11.02	-10.47	-10.49
155	YBADJ	STCK1	-10.18	-9.39	-8.50	-7.35	-5.97	-4.42
156	YBADJ	STCK1	-2.73	10.51	8.23	5.69	2.78	-0.17
157	YBADJ	STCK1	-3.11	-5.95	-8.62	-11.02	10.47	10.49
158	YBADJ	STCK1	10.18	9.39	8.50	7.35	5.97	4.42
159	YBADJ	STCK1	2.73	-10.51	-8.23	-5.69	-2.78	0.17
160								
161	YBADJ	STCK2	-11.58	-18.20	0.00	0.00	0.00	-14.23
162	YBADJ	STCK2	-12.49	-10.62	-8.48	-5.84	-2.96	0.14
163	YBADJ	STCK2	3.24	6.24	9.05	11.58	13.87	15.81
164	YBADJ	STCK2	17.26	18.20	0.00	0.00	0.00	14.23
165	YBADJ	STCK2	12.49	10.62	8.48	5.84	2.96	-0.14
166	YBADJ	STCK2	-3.24	-6.24	-9.05	10.48	3.18	-4.27
167								
168	YBADJ	STCK3	3.59	5.71	7.67	9.38	10.82	-13.33
169	YBADJ	STCK3	-1.63	-1.47	-12.47	-11.46	11.07	10.02
170	YBADJ	STCK3	8.66	7.04	5.21	3.22	0.92	-1.36
171	YBADJ	STCK3	-3.59	-5.71	-7.67	-9.38	-10.82	13.33
172	YBADJ	STCK3	1.63	1.47	12.47	11.46	-11.07	-10.02
173	YBADJ	STCK3	-8.66	-7.04	-5.21	-3.22	-0.92	1.36
174								
175	YBADJ	STCK4	7.29	9.04	10.51	11.66	-11.11	-12.37
176	YBADJ	STCK4	-1.39	-1.96	-2.97	9.93	8.60	7.00
177	YBADJ	STCK4	5.20	3.24	1.18	-0.92	-3.20	-5.33
178	YBADJ	STCK4	-7.29	-9.04	-10.51	-11.66	11.11	12.37
179	YBADJ	STCK4	1.39	1.96	2.97	-9.93	-8.60	-7.00
180	YBADJ	STCK4	-5.20	-3.24	-1.18	0.92	3.20	5.33

```

181
182
183 ** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
184 ** Variable Emission Scenario: "Scenario 1"
185 EMISFACT VOL1 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
186 EMISFACT VOL1 HROFDY 0.0 1.65 1.65 1.65 1.65 1.65
187 EMISFACT VOL1 HROFDY 1.65 1.65 1.65 1.65 1.65 0.0
188 EMISFACT VOL1 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
189 CONCUNIT 1 OU/S OU/M**3
190 SRCGROUP ALL
191 SO FINISHED
192 **
193 *****
194 ** AERMOD Receptor Pathway
195 *****
196 **
197 **
198 RE STARTING
199 INCLUDED Nobleton_Odour.rou
200 RE FINISHED
201 **
202 *****
203 ** AERMOD Meteorology Pathway
204 *****
205 **
206 **
207 ME STARTING

```

```

208     SURFFILE Toronto_crops_19191.SFC
209     PROFFILE Toronto_crops_19191.PFL
210     SURFDATA 61587 1996 TORONTO
211     UAIRDATA 725280 1996 BUFFALO
212     PROFBASE 173.0 METERS
213 ME FINISHED
214 **
215 *****
216 ** AERMOD Output Pathway
217 *****
218 **
219 **
220 OU STARTING
221     RECTABLE ALLAVE 1ST
222     RECTABLE 1 1ST
223     MAXTABLE ALLAVE 500
224     MAXIFILE 1 ALL 1 1hr.MAX 31
225 ** Auto-Generated Plotfiles
226     PLOTFILE 1 ALL 1ST 01H1GALL.PLT 32
227     SUMMFILE Nobltn_OU.sum
228 OU FINISHED
229
230
231     *** Message Summary For AERMOD Model Setup ***
232
233     ----- Summary of Total Messages -----
234
235     A Total of           0 Fatal Error Message(s)
236     A Total of           5 Warning Message(s)
237     A Total of           0 Informational Message(s)
238
239
240     ***** FATAL ERROR MESSAGES *****
241             *** NONE ***
242
243
244     ***** WARNING MESSAGES *****
245     SO W320    36          PPARAM: Input Parameter May Be Out-of-Range for
Parameter                               QS
246     SO W320    37          PPARAM: Input Parameter May Be Out-of-Range for
Parameter                               QS
247     SO W320    38          PPARAM: Input Parameter May Be Out-of-Range for
Parameter                               QS
248     SO W320    39          PPARAM: Input Parameter May Be Out-of-Range for
Parameter                               QS
249     ME W187    213        MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET
250
251     *****
252     *** SETUP Finishes Successfully ***
253     *****
254
255     [E] *** AERMOD - VERSION 19191 ***     *** Nobleton Odour
OU/S                                     ***           07/13/21
256     *** AERMET - VERSION 19191 ***
***                                     ***
10:59:33
257
258     PAGE 1
259     *** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*
260
261     *** MODEL SETUP OPTIONS SUMMARY ***
262     -----
263     **Model Is Setup For Calculation of Average CONCentration Values.
264
265     -- DEPOSITION LOGIC --
266     **NO GAS DEPOSITION Data Provided.

```

267 **NO PARTICLE DEPOSITION Data Provided.
268 **Model Uses NO DRY DEPLETION. DRYDPLT = F
269 **Model Uses NO WET DEPLETION. WETDPLT = F
270
271 **Model Uses RURAL Dispersion Only.
272
273 **Model Uses Regulatory DEFAULT Options:
274 1. Stack-tip Downwash.
275 2. Model Accounts for ELEVated Terrain Effects.
276 3. Use Calms Processing Routine.
277 4. Use Missing Data Processing Routine.
278 5. No Exponential Decay.
279
280 **Other Options Specified:
281 ADJ_U* - Use ADJ_U* option for SBL in AERMET
282 CCVR_Sub - Meteorological data includes CCVR substitutions
283 TEMP_Sub - Meteorological data includes TEMP substitutions
284
285 **Model Accepts FLAGPOLE Receptor Heights.
286
287 **The User Specified a Pollutant Type of: ODOUR
288
289 **Model Calculates 1 Short Term Average(s) of: 1-HR
290
291 **This Run Includes: 5 Source(s); 1 Source Group(s); and 2 Receptor(s)
292
293 with: 4 POINT(s), including
294 0 POINTCAP(s) and 1 POINTHOR(s)
295 and: 1 VOLUME source(s)
296 and: 0 AREA type source(s)
297 and: 0 LINE source(s)
298 and: 0 RLINE/RLINEXT source(s)
299 and: 0 OPENPIT source(s)
300 and: 0 BUOYANT LINE source(s) with 0 line(s)
301
302
303 **Model Set To Continue RUNNING After the Setup Testing.
304
305 **The AERMET Input Meteorological Data Version Date: 19191
306
307 **Output Options Selected:
308 Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
309 Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)
310 Model Outputs External File(s) of Threshold Violations (MAXIFILE Keyword)
311 Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
312 Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
313
314 **NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
315 m for Missing Hours
316 b for Both Calm and
Missing Hours
317
318 **Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 173.00 ; Decay Coef.
= 0.000 ; Rot. Angle = 0.0
319 Emission Units = OU/S ; Emission
Rate Unit Factor = 1.0000
320 Output Units = OU/M**3
321
322 **Approximate Storage Requirements of Model = 3.5 MB of RAM.
323
324 **Input Runstream File:
aermod.inp
325
326 **Output Print File:
aermod.out
327
328 **Detailed Error/Message File:

328 **File for Summary of Results:
Nobltn_OU.sum

329 **PR** *** AERMOD - VERSION 19191 *** *** Nobleton Odour
OU/S *** 07/13/21

330 *** AERMET - VERSION 19191 ***
*** ***
10:59:33

331
332 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*
333
334

335 *** POINT SOURCE DATA ***

SOURCE	VEL.	DIAMETER	PART.	EMITS	RATE	BLDG	URBAN	CAP/	BASE	STACK	STACK
									ELEV.	HEIGHT	TEMP.	EXIT
ID	(M/SEC)	(METERS)	CATS.	EXISTS	SOURCE	HOR	SCALAR	(METERS)	(METERS)	(METERS)	(DEG.K)
STCK1	34.84	0.25	YES	NO	NO	605199.7	4860442.3	246.0	8.00	734.15	
STCK2	1.19	0.15	YES	NO	HOR	605195.2	4860501.7	246.8	1.00	455.15	
STCK3	1.67	0.25	YES	NO	NO	605200.8	4860446.2	246.0	6.55	455.15	
STCK4	1.43	0.25	YES	NO	NO	605204.8	4860447.4	246.0	6.55	455.15	

341
342
343
344
345

346 **PR** *** AERMOD - VERSION 19191 *** *** Nobleton Odour
OU/S *** 07/13/21
347 *** AERMET - VERSION 19191 ***
*** ***
10:59:33

348
349 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*
350
351

352 *** VOLUME SOURCE DATA ***

SOURCE	SZ	PART.	EMITS	RATE	BLDG	URBAN	CAP/	BASE	RELEASE	INIT.
								ELEV.	HEIGHT	SY
ID	(METERS)	CATS.	EXISTS	SOURCE	HOR	SCALAR	VARY	(METERS)	(METERS)	(METERS)
VOL1	4.12	NO	HROFDY	0	0.11147E+05	605189.5	4860459.9	246.0	3.50	0.47

358
359
360 **PR** *** AERMOD - VERSION 19191 *** *** Nobleton Odour
OU/S *** 07/13/21

361 *** AERMET - VERSION 19191 ***
*** ***
10:59:33

362
363 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*
364
365

366 *** SOURCE IDs DEFINING SOURCE GROUPS ***
367


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445
446
447 SOURCE ID: STCK4
448 IFV   BH     BW     BL     XADJ   YADJ   IFV   BH     BW     BL     XADJ
      YADJ
449   1   8.9,   15.7,   13.7,   3.1,   7.3,   2   8.9,   16.5,   14.7,   1.3,
      9.0,
450   3   8.9,   16.8,   15.2,  -0.6,   10.5,   4   8.9,   16.6,   15.2,  -2.4,
      11.7,
451   5   7.6,   21.0,   19.2, -17.8, -11.1,   6   7.6,   19.7,   17.3, -14.9,
      -12.4,
452   7   4.8,   41.5,   16.9, -11.4,  -1.4,   8   4.8,   40.8,   15.6,  -9.6,
      -2.0,
453   9   4.8,   40.8,   22.2, -12.6,  -3.0,  10   8.9,   13.7,   15.7, -15.2,
      9.9,
454  11   8.9,   14.7,   16.5, -17.3,   8.6,  12   8.9,   15.2,   16.8, -18.9,
      7.0,
455  13   8.9,   15.2,   16.6, -19.9,   5.2,  14   8.9,   14.8,   15.8, -20.4,
      3.2,
456  15   8.9,   14.0,   14.6, -20.2,   1.2,  16   8.9,   12.7,   13.0, -19.4,
      -0.9,
457  17   8.9,   12.8,   12.1, -18.5,  -3.2,  18   8.9,   14.5,   12.6, -17.4,
      -5.3,
458  19   8.9,   15.7,   13.7, -16.8,  -7.3,  20   8.9,   16.5,   14.7, -15.9,
      -9.0,
459  21   8.9,   16.8,   15.2, -14.6, -10.5,  22   8.9,   16.6,   15.2, -12.8,
      -11.7,
460  23   7.6,   21.0,   19.2,  -1.4,   11.1,  24   7.6,   19.7,   17.3,  -2.5,
      12.4,
461  25   4.8,   41.5,   16.9,  -5.4,   1.4,  26   4.8,   40.8,   15.6,  -6.1,
      2.0,
462  27   4.8,   40.8,   22.2,  -9.7,   3.0,  28   8.9,   13.7,   15.7,  -0.6,
      -9.9,
463  29   8.9,   14.7,   16.5,   0.8,  -8.6,  30   8.9,   15.2,   16.8,   2.1,
      -7.0,
464  31   8.9,   15.2,   16.6,   3.4,  -5.2,  32   8.9,   14.8,   15.8,   4.5,
      -3.2,
465  33   8.9,   14.0,   14.6,   5.6,  -1.2,  34   8.9,   12.7,   13.0,   6.4,
      0.9,
466  35   8.9,   12.8,   12.1,   6.4,   3.2,  36   8.9,   14.5,   12.6,   4.8,
      5.3,

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467
468 *** AERMOD - VERSION 19191 ***   *** Nobleton Odour
OU/S                                     ***   07/13/21
469 *** AERMET - VERSION 19191 ***
***                                     ***
10:59:33

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470
471 PAGE 6
*** MODELOPTs:   RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*
472
473 * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF
THE DAY *

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```

474
475   HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR      HOUR      SCALAR
476   - - - - -
477
478

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479 SOURCE ID = VOL1 ; SOURCE TYPE = VOLUME :
480   1 .00000E+00   2 .00000E+00   3 .00000E+00   4 .00000E+00
481   5 .00000E+00   6 .00000E+00
482   7 .00000E+00   8 .16500E+01   9 .16500E+01  10 .16500E+01
483   11 .16500E+01  12 .16500E+01
484   13 .16500E+01  14 .16500E+01  15 .16500E+01  16 .16500E+01
485   17 .16500E+01  18 .00000E+00
486   19 .00000E+00  20 .00000E+00  21 .00000E+00  22 .00000E+00
487   23 .00000E+00  24 .00000E+00

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484
485 ***** AERMOD - VERSION 19191 ***** ******* Nobleton Odour
OU/S ******* 07/13/21

486 ***** AERMET - VERSION 19191 *****
******* *******
10:59:33

487
488 ***** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U***
489

490 ***** DISCRETE CARTESIAN RECEPTORS *****
491 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
492 (METERS)
493
494 (604987.2, 4860621.0, 250.1, 250.1, 1.5); (604973.0,
4860647.9, 250.7, 250.7, 4.5);

495 ***** AERMOD - VERSION 19191 ***** ******* Nobleton Odour
OU/S ******* 07/13/21

496 ***** AERMET - VERSION 19191 *****
******* *******
10:59:33

497
498 ***** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U***
499

500 ***** METEOROLOGICAL DAYS SELECTED FOR**
501 **PROCESSING *****
502 (1=YES; 0=NO)

503 1
504 1
505 1
506 1
507 1
508 1
509 1
510 1
511

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

513
514
515
516 ***** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED**
CATEGORIES ***
517 (METERS/SEC)

518 1.54, 3.09, 5.14, 8.23, 10.80,
519
520 ***** AERMOD - VERSION 19191 ***** ******* Nobleton Odour
OU/S ******* 07/13/21

521 ***** AERMET - VERSION 19191 *****
******* *******
10:59:33

522
523 ***** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U***
524

525 ***** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA**

526
527 Surface file:
Toronto_crops_19191.SFC

528 Met Version: 19191
 Profile file:
 Toronto_crops_19191.PFL
 529 Surface format:
 FREE

530 Profile format:
 FREE

531 Surface station no.: 61587 Upper air station no.: 725280
 532 Name: TORONTO Name:
 BUFFALO
 533 Year: 1996 Year: 1996
 534

535 First 24 hours of scalar data
 536 YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN ALBEDO
 REF WS WD HT REF TA HT

537	YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO
538	REF	WS	WD	HT	REF	TA	HT									
538	96	01	01	1	01	-21.5	0.212	-9.000	-9.000	-999.	234.	49.3	0.10	0.50		
	1.00		2.60		41.	10.0	273.1		2.0							
539	96	01	01	1	02	-21.5	0.212	-9.000	-9.000	-999.	234.	49.3	0.10	0.50		
	1.00		2.60		38.	10.0	273.1		2.0							
540	96	01	01	1	03	-34.6	0.341	-9.000	-9.000	-999.	477.	127.6	0.10	0.50		
	1.00		4.10		44.	10.0	273.1		2.0							
541	96	01	01	1	04	-34.6	0.341	-9.000	-9.000	-999.	477.	127.6	0.10	0.50		
	1.00		4.10		73.	10.0	273.1		2.0							
542	96	01	01	1	05	-43.6	0.427	-9.000	-9.000	-999.	671.	201.0	0.10	0.50		
	1.00		5.10		63.	10.0	272.5		2.0							
543	96	01	01	1	06	-39.2	0.384	-9.000	-9.000	-999.	572.	162.1	0.10	0.50		
	1.00		4.60		82.	10.0	272.0		2.0							
544	96	01	01	1	07	-43.6	0.427	-9.000	-9.000	-999.	670.	201.0	0.10	0.50		
	1.00		5.10		75.	10.0	272.0		2.0							
545	96	01	01	1	08	-39.3	0.384	-9.000	-9.000	-999.	572.	162.1	0.10	0.50		
	1.00		4.60		83.	10.0	271.4		2.0							
546	96	01	01	1	09	-33.7	0.341	-9.000	-9.000	-999.	479.	127.7	0.10	0.50		
	0.82		4.10		67.	10.0	270.4		2.0							
547	96	01	01	1	10	-25.9	0.343	-9.000	-9.000	-999.	481.	137.3	0.10	0.50		
	0.69		4.10		61.	10.0	269.9		2.0							
548	96	01	01	1	11	-18.7	0.435	-9.000	-9.000	-999.	689.	390.6	0.10	0.50		
	0.64		5.10		54.	10.0	269.9		2.0							
549	96	01	01	1	12	-6.0	0.353	-9.000	-9.000	-999.	507.	650.3	0.10	0.50		
	0.62		4.10		66.	10.0	269.2		2.0							
550	96	01	01	1	13	-3.1	0.355	-9.000	-9.000	-999.	508.	1282.7	0.10	0.50		
	0.62		4.10		73.	10.0	269.2		2.0							
551	96	01	01	1	14	-8.0	0.351	-9.000	-9.000	-999.	499.	478.4	0.10	0.50		
	0.63		4.10		59.	10.0	269.2		2.0							
552	96	01	01	1	15	-20.4	0.389	-9.000	-9.000	-999.	583.	256.7	0.10	0.50		
	0.65		4.60		62.	10.0	268.8		2.0							
553	96	01	01	1	16	-32.4	0.385	-9.000	-9.000	-999.	574.	163.4	0.10	0.50		
	0.72		4.60		34.	10.0	268.8		2.0							
554	96	01	01	1	17	-22.1	0.211	-9.000	-9.000	-999.	257.	49.2	0.10	0.50		
	0.89		2.60		31.	10.0	265.9		2.0							
555	96	01	01	1	18	-39.9	0.384	-9.000	-9.000	-999.	570.	162.0	0.10	0.50		
	1.00		4.60		7.	10.0	267.0		2.0							
556	96	01	01	1	19	-35.4	0.340	-9.000	-9.000	-999.	478.	127.5	0.10	0.50		
	1.00		4.10		14.	10.0	267.0		2.0							
557	96	01	01	1	20	-35.5	0.340	-9.000	-9.000	-999.	477.	127.4	0.10	0.50		
	1.00		4.10		7.	10.0	266.4		2.0							
558	96	01	01	1	21	-44.5	0.427	-9.000	-9.000	-999.	670.	200.8	0.10	0.50		
	1.00		5.10		10.	10.0	266.4		2.0							
559	96	01	01	1	22	-44.6	0.427	-9.000	-9.000	-999.	670.	200.8	0.10	0.50		
	1.00		5.10		32.	10.0	265.9		2.0							
560	96	01	01	1	23	-31.1	0.297	-9.000	-9.000	-999.	401.	97.2	0.10	0.50		
	1.00		3.60		30.	10.0	265.9		2.0							
561	96	01	01	1	24	-35.5	0.340	-9.000	-9.000	-999.	476.	127.4	0.10	0.50		
	1.00		4.10		30.	10.0	265.9		2.0							

562
 563

564 First hour of profile data
 565 YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
 566 96 01 01 01 10.0 1 41. 2.60 273.2 99.0 -99.00 -99.00

567
 568 F indicates top of profile (=1) or below (=0)
 569 **PR** *** AERMOD - VERSION 19191 *** *** Nobleton Odour
 OU/S *** 07/13/21
 570 *** AERMET - VERSION 19191 ***

 10:59:33

571
 572 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*
 573
 574 *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 575 INCLUDING SOURCE(S): VOL1 , STCK1 ,
 STCK2 , STCK3 , STCK4 ,
 576
 577 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
 578
 579 ** CONC OF ODOUR IN
 OU/M***3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)		
604987.25	4860621.03	17.55249 (97120816)	604972.97
4860647.92	14.38212	(96123116)	

584 **PR** *** AERMOD - VERSION 19191 *** *** Nobleton Odour
 OU/S *** 07/13/21
 585 *** AERMET - VERSION 19191 ***

 10:59:33

586
 587 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*
 588
 589 *** THE MAXIMUM 500 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 590 INCLUDING SOURCE(S): VOL1 , STCK1 ,
 STCK2 , STCK3 , STCK4 ,
 591
 592 ** CONC OF ODOUR IN
 OU/M***3 **

RANK (YYMMDDHH) AT	CONC (YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC
1.	17.55249 (97120816)	AT (604987.25, 4860621.03) DC	41.	10.40572
	(96012609)	AT (604972.97, 4860647.92) DC		
2.	16.58837 (98120608)	AT (604987.25, 4860621.03) DC	42.	10.26555
	(96011716)	AT (604972.97, 4860647.92) DC		
3.	16.47145 (97020208)	AT (604987.25, 4860621.03) DC	43.	9.81701
	(99020209)	AT (604972.97, 4860647.92) DC		
4.	15.89676 (99020209)	AT (604987.25, 4860621.03) DC	44.	9.77284
	(97122917)	AT (604972.97, 4860647.92) DC		
5.	15.09607 (96123116)	AT (604987.25, 4860621.03) DC	45.	9.43804
	(98120616)	AT (604972.97, 4860647.92) DC		
6.	15.06207 (98121616)	AT (604987.25, 4860621.03) DC	46.	9.27986
	(98010910)	AT (604972.97, 4860647.92) DC		
7.	14.95888 (97022109)	AT (604987.25, 4860621.03) DC	47.	9.17512
	(98010910)	AT (604987.25, 4860621.03) DC		
8.	14.93245 (00121509)	AT (604987.25, 4860621.03) DC	48.	9.13075
	(96110508)	AT (604987.25, 4860621.03) DC		
9.	14.84256 (99022708)	AT (604987.25, 4860621.03) DC	49.	8.93936
	(97022110)	AT (604972.97, 4860647.92) DC		

605	10.	14.70212 (99012916) AT (604987.25, 4860621.03) DC	50.	8.75804
		(00013015) AT (604987.25, 4860621.03) DC		
606	11.	14.38963 (96122812) AT (604987.25, 4860621.03) DC	51.	8.39982
		(97022109) AT (604972.97, 4860647.92) DC		
607	12.	14.38212 (96123116) AT (604972.97, 4860647.92) DC	52.	8.37301
		(97122409) AT (604972.97, 4860647.92) DC		
608	13.	14.33448 (98121616) AT (604972.97, 4860647.92) DC	53.	8.32882
		(99012916) AT (604972.97, 4860647.92) DC		
609	14.	14.22233 (00121509) AT (604972.97, 4860647.92) DC	54.	8.17212
		(99021609) AT (604972.97, 4860647.92) DC		
610	15.	14.17172 (99022708) AT (604972.97, 4860647.92) DC	55.	8.08671
		(97122409) AT (604987.25, 4860621.03) DC		
611	16.	13.28289 (97122917) AT (604987.25, 4860621.03) DC	56.	7.72599
		(99021609) AT (604987.25, 4860621.03) DC		
612	17.	13.25324 (97022110) AT (604987.25, 4860621.03) DC	57.	7.39562
		(96021008) AT (604987.25, 4860621.03) DC		
613	18.	12.86579 (00012216) AT (604972.97, 4860647.92) DC	58.	7.04578
		(99121817) AT (604972.97, 4860647.92) DC		
614	19.	12.79695 (00012216) AT (604987.25, 4860621.03) DC	59.	6.93327
		(99111908) AT (604987.25, 4860621.03) DC		
615	20.	12.72475 (98120616) AT (604987.25, 4860621.03) DC	60.	6.84927
		(99121817) AT (604987.25, 4860621.03) DC		
616	21.	12.54895 (96011715) AT (604972.97, 4860647.92) DC	61.	6.75466
		(00013015) AT (604972.97, 4860647.92) DC		
617	22.	12.52021 (96122812) AT (604972.97, 4860647.92) DC	62.	6.19669
		(99111908) AT (604972.97, 4860647.92) DC		
618	23.	12.39701 (96011715) AT (604987.25, 4860621.03) DC	63.	6.09848
		(98120615) AT (604987.25, 4860621.03) DC		
619	24.	12.39425 (97120816) AT (604972.97, 4860647.92) DC	64.	6.03684
		(98010511) AT (604987.25, 4860621.03) DC		
620	25.	12.38023 (00121316) AT (604972.97, 4860647.92) DC	65.	6.01634
		(96021008) AT (604972.97, 4860647.92) DC		
621	26.	12.37473 (99021109) AT (604987.25, 4860621.03) DC	66.	6.00927
		(00013010) AT (604987.25, 4860621.03) DC		
622	27.	12.32957 (00121316) AT (604987.25, 4860621.03) DC	67.	5.83827
		(97112917) AT (604987.25, 4860621.03) DC		
623	28.	12.15791 (96122810) AT (604987.25, 4860621.03) DC	68.	5.71110
		(00011815) AT (604987.25, 4860621.03) DC		
624	29.	11.75590 (00121008) AT (604987.25, 4860621.03) DC	69.	5.69937
		(96122810) AT (604972.97, 4860647.92) DC		
625	30.	11.75586 (00121517) AT (604987.25, 4860621.03) DC	70.	5.61267
		(00102217) AT (604987.25, 4860621.03) DC		
626	31.	11.44227 (99011710) AT (604987.25, 4860621.03) DC	71.	5.59788
		(00013010) AT (604972.97, 4860647.92) DC		
627	32.	11.29500 (99021109) AT (604972.97, 4860647.92) DC	72.	5.54142
		(96110508) AT (604972.97, 4860647.92) DC		
628	33.	11.10119 (98120608) AT (604972.97, 4860647.92) DC	73.	5.53913
		(98120617) AT (604972.97, 4860647.92) DC		
629	34.	11.05473 (97020208) AT (604972.97, 4860647.92) DC	74.	5.52502
		(00121309) AT (604972.97, 4860647.92) DC		
630	35.	10.99906 (99020210) AT (604972.97, 4860647.92) DC	75.	5.42058
		(99110108) AT (604972.97, 4860647.92) DC		
631	36.	10.95641 (96011716) AT (604987.25, 4860621.03) DC	76.	5.36341
		(99011710) AT (604972.97, 4860647.92) DC		
632	37.	10.90078 (00121517) AT (604972.97, 4860647.92) DC	77.	5.29503
		(96111608) AT (604972.97, 4860647.92) DC		
633	38.	10.90077 (00121008) AT (604972.97, 4860647.92) DC	78.	5.26940
		(96110617) AT (604987.25, 4860621.03) DC		
634	39.	10.74096 (96012609) AT (604987.25, 4860621.03) DC	79.	5.26899
		(99110108) AT (604987.25, 4860621.03) DC		
635	40.	10.62279 (99020210) AT (604987.25, 4860621.03) DC	80.	5.18003
		(00011815) AT (604972.97, 4860647.92) DC		

*** AERMOD - VERSION 19191 *** *** Nobleton Odour

OU/S

07/13/21

637 *** AERMET - VERSION 19191 ***

10:59:33

638

639 *** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

640
641

*** THE MAXIMUM 500 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , STCK1 ,
STCK2 , STCK3 , STCK4 ,

642
643
644

** CONC OF ODOUR IN
OU/M**3 **

645

RANK (YYMMDDHH) AT	CONC (YYMMDDHH) AT	(YYMMDDHH) AT RECEPTOR (XR,YR)	AT (XR,YR)	RECEPTOR (XR,YR) OF TYPE	OF TYPE	RANK	CONC
648	81.	5.14918 (96022008)	AT (604987.25, 4860621.03)	DC	121.	3.56293	
649	82.	5.13876 (96022008)	AT (604972.97, 4860647.92)	DC	122.	3.55328	
650	83.	5.10837 (96111608)	AT (604987.25, 4860621.03)	DC	123.	3.54902	
651	84.	5.08782 (98120617)	AT (604987.25, 4860621.03)	DC	124.	3.50600	
652	85.	5.07180 (00121309)	AT (604987.25, 4860621.03)	DC	125.	3.49385	
653	86.	4.92011 (96122808)	AT (604987.25, 4860621.03)	DC	126.	3.49350	
654	87.	4.86069 (00102217)	AT (604972.97, 4860647.92)	DC	127.	3.37035	
655	88.	4.80048 (98120615)	AT (604972.97, 4860647.92)	DC	128.	3.33901	
656	89.	4.69619 (99121516)	AT (604987.25, 4860621.03)	DC	129.	3.30475	
657	90.	4.67689 (99121808)	AT (604972.97, 4860647.92)	DC	130.	3.29281	
658	91.	4.62946 (99121808)	AT (604987.25, 4860621.03)	DC	131.	3.25126	
659	92.	4.59783 (96022308)	AT (604987.25, 4860621.03)	DC	132.	3.14900	
660	93.	4.58187 (96122308)	AT (604987.25, 4860621.03)	DC	133.	3.14154	
661	94.	4.53189 (97102417)	AT (604972.97, 4860647.92)	DC	134.	3.09013	
662	95.	4.49797 (99120217)	AT (604972.97, 4860647.92)	DC	135.	3.05502	
663	96.	4.48581 (00010210)	AT (604972.97, 4860647.92)	DC	136.	3.02480	
664	97.	4.45121 (98122112)	AT (604972.97, 4860647.92)	DC	137.	3.01962	
665	98.	4.38241 (00010210)	AT (604987.25, 4860621.03)	DC	138.	2.96693	
666	99.	4.35562 (98110817)	AT (604972.97, 4860647.92)	DC	139.	2.94409	
667	100.	4.32822 (97102417)	AT (604987.25, 4860621.03)	DC	140.	2.85755	
668	101.	4.31972 (98012909)	AT (604987.25, 4860621.03)	DC	141.	2.83839	
669	102.	4.24171 (96122808)	AT (604972.97, 4860647.92)	DC	142.	2.83508	
670	103.	4.23846 (96122308)	AT (604972.97, 4860647.92)	DC	143.	2.80909	
671	104.	4.15845 (98110817)	AT (604987.25, 4860621.03)	DC	144.	2.75023	
672	105.	4.12109 (99120217)	AT (604987.25, 4860621.03)	DC	145.	2.72804	
673	106.	4.11708 (98012909)	AT (604972.97, 4860647.92)	DC	146.	2.72804	
674	107.	4.11184 (00022409)	AT (604987.25, 4860621.03)	DC	147.	2.72709	
675	108.	4.02368 (98012908)	AT (604987.25, 4860621.03)	DC	148.	2.71178	

676 (97022115) AT (604987.25, 4860621.03) DC 109. 4.02112 (00102008) AT (604972.97, 4860647.92) DC 149. 2.71147
 (00022517) AT (604987.25, 4860621.03) DC
 677 110. 3.95631 (97112917) AT (604972.97, 4860647.92) DC 150. 2.69614
 (98022617) AT (604972.97, 4860647.92) DC
 678 111. 3.93826 (98012908) AT (604972.97, 4860647.92) DC 151. 2.67247
 (98120611) AT (604987.25, 4860621.03) DC
 679 112. 3.87681 (97120309) AT (604987.25, 4860621.03) DC 152. 2.62731
 (98122109) AT (604972.97, 4860647.92) DC
 680 113. 3.79469 (98122112) AT (604987.25, 4860621.03) DC 153. 2.61698
 (96022017) AT (604972.97, 4860647.92) DC
 681 114. 3.76624 (00020315) AT (604987.25, 4860621.03) DC 154. 2.61073
 (96011115) AT (604972.97, 4860647.92) DC
 682 115. 3.75484 (00102008) AT (604987.25, 4860621.03) DC 155. 2.59367
 (97010217) AT (604987.25, 4860621.03) DC
 683 116. 3.73988 (99121516) AT (604972.97, 4860647.92) DC 156. 2.59366
 (96011808) AT (604987.25, 4860621.03) DC
 684 117. 3.69279 (98111817) AT (604987.25, 4860621.03) DC 157. 2.59250
 (96122309) AT (604987.25, 4860621.03) DC
 685 118. 3.58288 (00022908) AT (604987.25, 4860621.03) DC 158. 2.57288
 (99040308) AT (604987.25, 4860621.03) DC
 686 119. 3.56816 (00022908) AT (604972.97, 4860647.92) DC 159. 2.57139
 (99121213) AT (604987.25, 4860621.03) DC
 687 120. 3.56454 (00020315) AT (604972.97, 4860647.92) DC 160. 2.56557
 (99112517) AT (604987.25, 4860621.03) DC

*** AERMOD - VERSION 19191 *** *** Nobleton Odour
 OU/S *** 07/13/21

689 *** AERMET - VERSION 19191 ***
 *** ***
 10:59:33

690
 691 *** MODELOPTs: RegDFAULT PAGE 13 CONC ELEV FLGPOL RURAL ADJ_U*
 692
 693 *** THE MAXIMUM 500 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 694 INCLUDING SOURCE(S): VOL1 , STCK1 ,
 STCK2 , STCK3 , STCK4 ,
 695
 696 ** CONC OF ODOUR IN
 OU/M**3 **

RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC
(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE				
700	161. 2.56151 (99111117)	AT (604972.97, 4860647.92)	DC	201.	1.96409
	(96022014)	AT (604972.97, 4860647.92)	DC		
701	162. 2.54206 (96102617)	AT (604972.97, 4860647.92)	DC	202.	1.94448
	(96011809)	AT (604972.97, 4860647.92)	DC		
702	163. 2.52487 (00011008)	AT (604987.25, 4860621.03)	DC	203.	1.93676
	(00121009)	AT (604987.25, 4860621.03)	DC		
703	164. 2.51309 (97022112)	AT (604972.97, 4860647.92)	DC	204.	1.91858
	(96122312)	AT (604987.25, 4860621.03)	DC		
704	165. 2.50284 (96021010)	AT (604987.25, 4860621.03)	DC	205.	1.91430
	(98010912)	AT (604987.25, 4860621.03)	DC		
705	166. 2.50186 (99111117)	AT (604987.25, 4860621.03)	DC	206.	1.91192
	(97122915)	AT (604987.25, 4860621.03)	DC		
706	167. 2.48352 (96022017)	AT (604987.25, 4860621.03)	DC	207.	1.89476
	(00013017)	AT (604987.25, 4860621.03)	DC		
707	168. 2.47736 (00022512)	AT (604987.25, 4860621.03)	DC	208.	1.88894
	(99011711)	AT (604972.97, 4860647.92)	DC		
708	169. 2.45561 (98122109)	AT (604987.25, 4860621.03)	DC	209.	1.87933
	(97022114)	AT (604987.25, 4860621.03)	DC		
709	170. 2.44110 (99100808)	AT (604987.25, 4860621.03)	DC	210.	1.86549
	(99040309)	AT (604987.25, 4860621.03)	DC		
710	171. 2.43166 (97022112)	AT (604987.25, 4860621.03)	DC	211.	1.86047
	(97122410)	AT (604987.25, 4860621.03)	DC		
711	172. 2.42273 (97032109)	AT (604987.25, 4860621.03)	DC	212.	1.85921

712	(99020214) AT (604972.97, 4860647.92) DC			
	173. 2.39836 (96102617) AT (604987.25, 4860621.03) DC	213.		1.85432
	(96022012) AT (604972.97, 4860647.92) DC			
713	174. 2.38166 (97020216) AT (604972.97, 4860647.92) DC	214.		1.85069
	(97122915) AT (604972.97, 4860647.92) DC			
714	175. 2.35202 (98112509) AT (604987.25, 4860621.03) DC	215.		1.84970
	(96011810) AT (604987.25, 4860621.03) DC			
715	176. 2.34286 (96022014) AT (604987.25, 4860621.03) DC	216.		1.83335
	(97010115) AT (604972.97, 4860647.92) DC			
716	177. 2.28010 (98112917) AT (604987.25, 4860621.03) DC	217.		1.83029
	(97122410) AT (604972.97, 4860647.92) DC			
717	178. 2.26372 (98120610) AT (604987.25, 4860621.03) DC	218.		1.83005
	(98010511) AT (604972.97, 4860647.92) DC			
718	179. 2.26159 (99112517) AT (604972.97, 4860647.92) DC	219.		1.82685
	(99120310) AT (604972.97, 4860647.92) DC			
719	180. 2.20224 (00022517) AT (604972.97, 4860647.92) DC	220.		1.82163
	(96112517) AT (604987.25, 4860621.03) DC			
720	181. 2.19413 (00110217) AT (604972.97, 4860647.92) DC	221.		1.82056
	(96122312) AT (604972.97, 4860647.92) DC			
721	182. 2.17906 (96102517) AT (604987.25, 4860621.03) DC	222.		1.80835
	(97022114) AT (604972.97, 4860647.92) DC			
722	183. 2.16339 (96022308) AT (604972.97, 4860647.92) DC	223.		1.79888
	(00022409) AT (604972.97, 4860647.92) DC			
723	184. 2.15779 (99112117) AT (604972.97, 4860647.92) DC	224.		1.79241
	(98111908) AT (604987.25, 4860621.03) DC			
724	185. 2.15103 (96022009) AT (604987.25, 4860621.03) DC	225.		1.78011
	(98021517) AT (604987.25, 4860621.03) DC			
725	186. 2.15003 (97020216) AT (604987.25, 4860621.03) DC	226.		1.77607
	(96112517) AT (604972.97, 4860647.92) DC			
726	187. 2.11822 (00110217) AT (604987.25, 4860621.03) DC	227.		1.77329
	(00012913) AT (604987.25, 4860621.03) DC			
727	188. 2.11404 (98112908) AT (604987.25, 4860621.03) DC	228.		1.76957
	(98101717) AT (604987.25, 4860621.03) DC			
728	189. 2.10665 (97022115) AT (604972.97, 4860647.92) DC	229.		1.75625
	(97020214) AT (604972.97, 4860647.92) DC			
729	190. 2.09911 (96022013) AT (604987.25, 4860621.03) DC	230.		1.72544
	(00022512) AT (604972.97, 4860647.92) DC			
730	191. 2.08382 (96102517) AT (604972.97, 4860647.92) DC	231.		1.72030
	(98021517) AT (604972.97, 4860647.92) DC			
731	192. 2.07518 (97032109) AT (604972.97, 4860647.92) DC	232.		1.71621
	(98112917) AT (604972.97, 4860647.92) DC			
732	193. 2.06078 (96011809) AT (604987.25, 4860621.03) DC	233.		1.71595
	(00011008) AT (604972.97, 4860647.92) DC			
733	194. 2.04544 (99100808) AT (604972.97, 4860647.92) DC	234.		1.71545
	(00022910) AT (604987.25, 4860621.03) DC			
734	195. 2.03613 (99021617) AT (604972.97, 4860647.92) DC	235.		1.70512
	(96011810) AT (604972.97, 4860647.92) DC			
735	196. 2.03162 (96011115) AT (604987.25, 4860621.03) DC	236.		1.70312
	(96010415) AT (604987.25, 4860621.03) DC			
736	197. 2.02262 (00013017) AT (604972.97, 4860647.92) DC	237.		1.69921
	(99011711) AT (604987.25, 4860621.03) DC			
737	198. 2.00281 (96022012) AT (604987.25, 4860621.03) DC	238.		1.69841
	(00012913) AT (604972.97, 4860647.92) DC			
738	199. 1.98891 (97010115) AT (604987.25, 4860621.03) DC	239.		1.69120
	(99020214) AT (604987.25, 4860621.03) DC			
739	200. 1.98528 (99121213) AT (604972.97, 4860647.92) DC	240.		1.69116
	(00110617) AT (604972.97, 4860647.92) DC			

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741 *** AERMET - VERSION 19191 ***

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743 *** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

744

*** THE MAXIMUM 500 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***

745

INCLUDING SOURCE(S): VOL1 , STCK1 ,

746

747
748

** CONC OF ODOUR IN
OU/M**3 **

749

RANK (YYMMDDHH)	CONC AT	(YYMMDDHH) RECEPTOR	AT (XR,YR)	RECEPTOR OF TYPE	(XR,YR)	OF TYPE	RANK	CONC
752	241. (97012717)	1.68454 AT (	(99122009) 604987.25,	AT (	(604972.97, 4860621.03)	DC	281.	1.43981
753	242. (96122311)	1.68266 AT (	(99122009) 604987.25,	AT (	(604987.25, 4860621.03)	DC	282.	1.43238
754	243. (97040510)	1.67317 AT (	(00040209) 604987.25,	AT (	(604987.25, 4860621.03)	DC	283.	1.43205
755	244. (98012910)	1.65994 AT (	(00110617) 604987.25,	AT (	(604987.25, 4860621.03)	DC	284.	1.43151
756	245. (99020115)	1.65908 AT (	(98111611) 604972.97,	AT (	(604972.97, 4860647.92)	DC	285.	1.42527
757	246. (96021910)	1.65905 AT (	(99052408) 604987.25,	AT (	(604987.25, 4860621.03)	DC	286.	1.41594
758	247. (99010309)	1.65521 AT (	(96011608) 604972.97,	AT (	(604972.97, 4860647.92)	DC	287.	1.41579
759	248. (98011213)	1.65149 AT (	(98012316) 604987.25,	AT (	(604987.25, 4860621.03)	DC	288.	1.40608
760	249. (99120310)	1.63761 AT (	(00121009) 604972.97,	AT (	(604972.97, 4860647.92)	DC	289.	1.40458
761	250. (97010117)	1.63717 AT (	(96022013) 604987.25,	AT (	(604987.25, 4860621.03)	DC	290.	1.40147
762	251. (98121617)	1.62810 AT (	(98030608) 604972.97,	AT (	(604972.97, 4860647.92)	DC	291.	1.39872
763	252. (98070408)	1.62623 AT (	(97020214) 604987.25,	AT (	(604987.25, 4860621.03)	DC	292.	1.39079
764	253. (97042709)	1.62549 AT (	(99011714) 604987.25,	AT (	(604987.25, 4860621.03)	DC	293.	1.39071
765	254. (00121516)	1.61709 AT (	(98012911) 604987.25,	AT (	(604987.25, 4860621.03)	DC	294.	1.38764
766	255. (00091008)	1.60433 AT (	(98022814) 604987.25,	AT (	(604987.25, 4860621.03)	DC	295.	1.38670
767	256. (98041308)	1.60419 AT (	(98011216) 604987.25,	AT (	(604987.25, 4860621.03)	DC	296.	1.38587
768	257. (99010309)	1.59935 AT (	(99040308) 604972.97,	AT (	(604972.97, 4860647.92)	DC	297.	1.37987
769	258. (99020115)	1.59397 AT (	(96011617) 604987.25,	AT (	(604987.25, 4860621.03)	DC	298.	1.37489
770	259. (99013114)	1.59388 AT (	(00011009) 604987.25,	AT (	(604987.25, 4860621.03)	DC	299.	1.36919
771	260. (00111610)	1.57805 AT (	(97020212) 604972.97,	AT (	(604972.97, 4860647.92)	DC	300.	1.36266
772	261. (96122317)	1.57721 AT (	(00040209) 604972.97,	AT (	(604972.97, 4860647.92)	DC	301.	1.36257
773	262. (96011608)	1.56424 AT (	(98101717) 604972.97,	AT (	(604972.97, 4860647.92)	DC	302.	1.35886
774	263. (98012910)	1.56097 AT (	(97010215) 604987.25,	AT (	(604987.25, 4860621.03)	DC	303.	1.35847
775	264. (00111610)	1.55928 AT (	(99012310) 604972.97,	AT (	(604972.97, 4860647.92)	DC	304.	1.35174
776	265. (98101617)	1.55395 AT (	(98012316) 604987.25,	AT (	(604987.25, 4860621.03)	DC	305.	1.34890
777	266. (00102609)	1.54915 AT (	(97032110) 604972.97,	AT (	(604972.97, 4860647.92)	DC	306.	1.34455
778	267. (99012315)	1.54200 AT (	(00013011) 604972.97,	AT (	(604972.97, 4860647.92)	DC	307.	1.34224
779	268. (98020916)	1.54005 AT (	(99012315) 604987.25,	AT (	(604987.25, 4860621.03)	DC	308.	1.34032
780	269. (98021015)	1.52481 AT (	(98012911) 604972.97,	AT (	(604972.97, 4860647.92)	DC	309.	1.32872
781	270. (99013113)	1.51506 AT (	(98030608) 604987.25,	AT (	(604987.25, 4860621.03)	DC	310.	1.32617

782 271. 1.50845 (00101617) AT (604972.97, 4860647.92) DC 311. 1.32410
 (00102610) AT (604987.25, 4860621.03) DC
 783 272. 1.49720 (96122311) AT (604972.97, 4860647.92) DC 312. 1.32281
 (97022812) AT (604987.25, 4860621.03) DC
 784 273. 1.47375 (99040310) AT (604987.25, 4860621.03) DC 313. 1.32243
 (98040110) AT (604987.25, 4860621.03) DC
 785 274. 1.47101 (97020212) AT (604987.25, 4860621.03) DC 314. 1.32230
 (99012310) AT (604972.97, 4860647.92) DC
 786 275. 1.46827 (00101617) AT (604987.25, 4860621.03) DC 315. 1.32123
 (97030115) AT (604987.25, 4860621.03) DC
 787 276. 1.46627 (98021015) AT (604987.25, 4860621.03) DC 316. 1.31861
 (96022009) AT (604972.97, 4860647.92) DC
 788 277. 1.45602 (00121516) AT (604972.97, 4860647.92) DC 317. 1.31466
 (97013017) AT (604987.25, 4860621.03) DC
 789 278. 1.45045 (98021016) AT (604987.25, 4860621.03) DC 318. 1.31269
 (96022016) AT (604972.97, 4860647.92) DC
 790 279. 1.44610 (98021016) AT (604972.97, 4860647.92) DC 319. 1.31197
 (96022016) AT (604987.25, 4860621.03) DC
 791 280. 1.44540 (99052408) AT (604972.97, 4860647.92) DC 320. 1.30676
 (97122411) AT (604987.25, 4860621.03) DC

792 ***** AERMOD - VERSION 19191 *** *** Nobleton Odour**
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793 ***** AERMET - VERSION 19191 *****
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794 PAGE 15
 795 ***** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U***
 796

797 ***** THE MAXIMUM 500 1-HR AVERAGE CONCENTRATION**
 VALUES FOR SOURCE GROUP: ALL *******
 798 INCLUDING SOURCE(S): VOL1 , STCK1 ,
 STCK2 , STCK3 , STCK4 ,
 799 **** CONC OF ODOUR IN**
 800 **OU/M***** ******

RANK (YYMMDDHH)	CONC AT	(YYMMDDHH) RECEPTOR	AT (XR,YR)	RECEPTOR OF TYPE	(XR,YR)	OF TYPE	RANK	CONC
804	321. 1.30665	(98121617)	AT (604987.25, 4860647.92)	DC	361.	1.15629		
805	322. 1.30026	(98102709)	AT (604987.25, 4860621.03)	DC	362.	1.15481		
806	323. 1.28791	(98111611)	AT (604972.97, 4860647.92)	DC	363.	1.15416		
807	324. 1.28569	(97040512)	AT (604987.25, 4860621.03)	DC	364.	1.15406		
808	325. 1.28451	(97120313)	AT (604987.25, 4860621.03)	DC	365.	1.15214		
809	326. 1.28336	(98101210)	AT (604987.25, 4860621.03)	DC	366.	1.15170		
810	327. 1.27402	(99013110)	AT (604987.25, 4860621.03)	DC	367.	1.15112		
811	328. 1.26815	(98111612)	AT (604987.25, 4860621.03)	DC	368.	1.14963		
812	329. 1.26633	(98011215)	AT (604987.25, 4860621.03)	DC	369.	1.14717		
813	330. 1.26219	(96121712)	AT (604987.25, 4860621.03)	DC	370.	1.14671		
814	331. 1.26106	(00102609)	AT (604987.25, 4860621.03)	DC	371.	1.14634		
815	332. 1.26028	(96021910)	AT (604972.97, 4860647.92)	DC	372.	1.14569		
816	333. 1.24339	(00102610)	AT (604972.97, 4860647.92)	DC	373.	1.14534		
817	334. 1.24273	(99013111)	AT (604987.25, 4860621.03)	DC	374.	1.13968		

818	335.	1.24136 (99011714) AT (604972.97, 4860647.92) DC	375.	1.13626
	(99022712) AT (604987.25, 4860621.03) DC			
819	336.	1.24097 (96021010) AT (604972.97, 4860647.92) DC	376.	1.13613
	(97040512) AT (604972.97, 4860647.92) DC			
820	337.	1.23749 (00013011) AT (604987.25, 4860621.03) DC	377.	1.13044
	(97010116) AT (604972.97, 4860647.92) DC			
821	338.	1.23718 (98020916) AT (604987.25, 4860621.03) DC	378.	1.12489
	(96121712) AT (604972.97, 4860647.92) DC			
822	339.	1.23043 (99040309) AT (604972.97, 4860647.92) DC	379.	1.12477
	(97032809) AT (604987.25, 4860621.03) DC			
823	340.	1.22797 (00020314) AT (604972.97, 4860647.92) DC	380.	1.12336
	(98022814) AT (604972.97, 4860647.92) DC			
824	341.	1.22448 (00052317) AT (604987.25, 4860621.03) DC	381.	1.12004
	(99022808) AT (604987.25, 4860621.03) DC			
825	342.	1.22386 (96021012) AT (604987.25, 4860621.03) DC	382.	1.11789
	(98062608) AT (604987.25, 4860621.03) DC			
826	343.	1.22265 (96011617) AT (604972.97, 4860647.92) DC	383.	1.11232
	(96091209) AT (604987.25, 4860621.03) DC			
827	344.	1.22257 (00011009) AT (604972.97, 4860647.92) DC	384.	1.10977
	(98011213) AT (604972.97, 4860647.92) DC			
828	345.	1.21783 (99013110) AT (604972.97, 4860647.92) DC	385.	1.10818
	(97010116) AT (604987.25, 4860621.03) DC			
829	346.	1.21736 (97022812) AT (604972.97, 4860647.92) DC	386.	1.10647
	(98020115) AT (604987.25, 4860621.03) DC			
830	347.	1.21096 (00122110) AT (604987.25, 4860621.03) DC	387.	1.10498
	(99101217) AT (604987.25, 4860621.03) DC			
831	348.	1.20989 (97012113) AT (604987.25, 4860621.03) DC	388.	1.10306
	(96120111) AT (604987.25, 4860621.03) DC			
832	349.	1.20534 (96022011) AT (604987.25, 4860621.03) DC	389.	1.10064
	(98112509) AT (604972.97, 4860647.92) DC			
833	350.	1.20479 (97032514) AT (604987.25, 4860621.03) DC	390.	1.09478
	(99101211) AT (604987.25, 4860621.03) DC			
834	351.	1.20440 (00122111) AT (604987.25, 4860621.03) DC	391.	1.09265
	(98121813) AT (604972.97, 4860647.92) DC			
835	352.	1.19875 (00122110) AT (604972.97, 4860647.92) DC	392.	1.09216
	(97012115) AT (604987.25, 4860621.03) DC			
836	353.	1.19731 (99092708) AT (604987.25, 4860621.03) DC	393.	1.09130
	(96110708) AT (604972.97, 4860647.92) DC			
837	354.	1.19562 (98121813) AT (604987.25, 4860621.03) DC	394.	1.08952
	(96042009) AT (604987.25, 4860621.03) DC			
838	355.	1.19318 (00112615) AT (604972.97, 4860647.92) DC	395.	1.08898
	(98010512) AT (604972.97, 4860647.92) DC			
839	356.	1.19136 (98021113) AT (604987.25, 4860621.03) DC	396.	1.08870
	(96042009) AT (604972.97, 4860647.92) DC			
840	357.	1.17500 (98101210) AT (604972.97, 4860647.92) DC	397.	1.08827
	(00020314) AT (604987.25, 4860621.03) DC			
841	358.	1.17257 (00122111) AT (604972.97, 4860647.92) DC	398.	1.08278
	(98101709) AT (604972.97, 4860647.92) DC			
842	359.	1.16863 (98121815) AT (604987.25, 4860621.03) DC	399.	1.08202
	(96042208) AT (604987.25, 4860621.03) DC			
843	360.	1.16343 (96011817) AT (604987.25, 4860621.03) DC	400.	1.08134
	(98020115) AT (604972.97, 4860647.92) DC			

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845 *** AERMET - VERSION 19191 ***
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846 PAGE 16
847 *** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

849 *** THE MAXIMUM 500 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
850 INCLUDING SOURCE(S): VOL1 , STCK1 ,
STCK2 , STCK3 , STCK4 ,

851 ** CONC OF ODOUR IN
852 OU/M*** **

853

854	RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	
855	(YYMMDDHH)	AT	RECEPTOR	(XR,YR)	OF TYPE			
856	401.	1.07915	(98030615)	AT (604987.25,	4860621.03)	DC	441.	0.98694
	(97032809)	AT (604972.97,	4860647.92)	DC				
857	402.	1.07693	(00011011)	AT (604987.25,	4860621.03)	DC	442.	0.98432
	(98091509)	AT (604987.25,	4860621.03)	DC				
858	403.	1.07217	(97032110)	AT (604972.97,	4860647.92)	DC	443.	0.98212
	(97022013)	AT (604987.25,	4860621.03)	DC				
859	404.	1.07066	(96120111)	AT (604972.97,	4860647.92)	DC	444.	0.98066
	(00110814)	AT (604987.25,	4860621.03)	DC				
860	405.	1.06987	(99101210)	AT (604987.25,	4860621.03)	DC	445.	0.97857
	(99012312)	AT (604987.25,	4860621.03)	DC				
861	406.	1.06542	(96113017)	AT (604987.25,	4860621.03)	DC	446.	0.97728
	(99022412)	AT (604987.25,	4860621.03)	DC				
862	407.	1.06164	(00111317)	AT (604987.25,	4860621.03)	DC	447.	0.97657
	(99100317)	AT (604987.25,	4860621.03)	DC				
863	408.	1.05976	(00032711)	AT (604987.25,	4860621.03)	DC	448.	0.97560
	(98111612)	AT (604972.97,	4860647.92)	DC				
864	409.	1.05632	(00052316)	AT (604987.25,	4860621.03)	DC	449.	0.97417
	(99042217)	AT (604987.25,	4860621.03)	DC				
865	410.	1.04588	(97122411)	AT (604972.97,	4860647.92)	DC	450.	0.97388
	(00020316)	AT (604987.25,	4860621.03)	DC				
866	411.	1.04388	(99040117)	AT (604987.25,	4860621.03)	DC	451.	0.97280
	(96113008)	AT (604987.25,	4860621.03)	DC				
867	412.	1.04038	(97060708)	AT (604987.25,	4860621.03)	DC	452.	0.97204
	(97012715)	AT (604987.25,	4860621.03)	DC				
868	413.	1.03463	(00031516)	AT (604987.25,	4860621.03)	DC	453.	0.96952
	(99101217)	AT (604972.97,	4860647.92)	DC				
869	414.	1.03271	(99042208)	AT (604972.97,	4860647.92)	DC	454.	0.96809
	(96032410)	AT (604987.25,	4860621.03)	DC				
870	415.	1.03251	(98111408)	AT (604972.97,	4860647.92)	DC	455.	0.96789
	(99022715)	AT (604987.25,	4860621.03)	DC				
871	416.	1.03083	(97120309)	AT (604972.97,	4860647.92)	DC	456.	0.96531
	(96112516)	AT (604972.97,	4860647.92)	DC				
872	417.	1.03025	(00110813)	AT (604987.25,	4860621.03)	DC	457.	0.96493
	(98030912)	AT (604987.25,	4860621.03)	DC				
873	418.	1.02782	(97010216)	AT (604972.97,	4860647.92)	DC	458.	0.96485
	(96010813)	AT (604972.97,	4860647.92)	DC				
874	419.	1.02487	(99013112)	AT (604987.25,	4860621.03)	DC	459.	0.96352
	(99121910)	AT (604987.25,	4860621.03)	DC				
875	420.	1.02291	(99022716)	AT (604987.25,	4860621.03)	DC	460.	0.96268
	(99011713)	AT (604987.25,	4860621.03)	DC				
876	421.	1.02236	(99040310)	AT (604972.97,	4860647.92)	DC	461.	0.95949
	(96112516)	AT (604987.25,	4860621.03)	DC				
877	422.	1.01953	(97082610)	AT (604987.25,	4860621.03)	DC	462.	0.95885
	(96061809)	AT (604987.25,	4860621.03)	DC				
878	423.	1.01790	(00032711)	AT (604972.97,	4860647.92)	DC	463.	0.95685
	(98021516)	AT (604972.97,	4860647.92)	DC				
879	424.	1.01340	(96101917)	AT (604987.25,	4860621.03)	DC	464.	0.95656
	(00022615)	AT (604972.97,	4860647.92)	DC				
880	425.	1.01168	(97042709)	AT (604972.97,	4860647.92)	DC	465.	0.95220
	(99011713)	AT (604972.97,	4860647.92)	DC				
881	426.	1.01127	(97040510)	AT (604972.97,	4860647.92)	DC	466.	0.94874
	(99112516)	AT (604987.25,	4860621.03)	DC				
882	427.	1.01101	(99013113)	AT (604972.97,	4860647.92)	DC	467.	0.94869
	(98041413)	AT (604987.25,	4860621.03)	DC				
883	428.	1.00539	(00022615)	AT (604987.25,	4860621.03)	DC	468.	0.94835
	(00102317)	AT (604987.25,	4860621.03)	DC				
884	429.	1.00488	(00121611)	AT (604987.25,	4860621.03)	DC	469.	0.94805
	(99051508)	AT (604987.25,	4860621.03)	DC				
885	430.	1.00386	(99022414)	AT (604987.25,	4860621.03)	DC	470.	0.94797
	(97120313)	AT (604972.97,	4860647.92)	DC				
886	431.	1.00295	(98021514)	AT (604987.25,	4860621.03)	DC	471.	0.94778
	(99042214)	AT (604987.25,	4860621.03)	DC				
887	432.	1.00293	(98040108)	AT (604987.25,	4860621.03)	DC	472.	0.94735
	(00110817)	AT (604987.25,	4860621.03)	DC				
888	433.	0.99506	(99013111)	AT (604972.97,	4860647.92)	DC	473.	0.94707

889 (99012312) AT (604972.97, 4860647.92) DC
 434. 0.99404 (00110810) AT (604987.25, 4860621.03) DC 474. 0.94563
 (98102709) AT (604972.97, 4860647.92) DC
 890 435. 0.99299 (00052317) AT (604972.97, 4860647.92) DC 475. 0.94225
 (97083117) AT (604987.25, 4860621.03) DC
 891 436. 0.99111 (97012113) AT (604972.97, 4860647.92) DC 476. 0.94165
 (99021608) AT (604987.25, 4860621.03) DC
 892 437. 0.99091 (97010216) AT (604987.25, 4860621.03) DC 477. 0.93501
 (96120108) AT (604987.25, 4860621.03) DC
 893 438. 0.99060 (99101508) AT (604972.97, 4860647.92) DC 478. 0.93479
 (96032410) AT (604972.97, 4860647.92) DC
 894 439. 0.98859 (96031317) AT (604987.25, 4860621.03) DC 479. 0.93416
 (96120512) AT (604987.25, 4860621.03) DC
 895 440. 0.98734 (00022612) AT (604987.25, 4860621.03) DC 480. 0.93353
 (98091509) AT (604972.97, 4860647.92) DC

896 **FF** *** AERMOD - VERSION 19191 *** *** Nobleton Odour
 OU/S *** 07/13/21

897 *** AERMET - VERSION 19191 ***
 *** ***
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898
 899 PAGE 17
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*

900
 901 *** THE MAXIMUM 500 1-HR AVERAGE CONCENTRATION
 VALUES FOR SOURCE GROUP: ALL ***
 902 INCLUDING SOURCE(S): VOL1 , STCK1 ,
 STCK2 , STCK3 , STCK4 ,

903
 904 ** CONC OF ODOUR IN
 OU/M***3 **

RANK (YYMMDDHH) AT	CONC (YYMMDDHH) AT	(YYMMDDHH) AT RECEPTOR (XR,YR) OF TYPE	RECEPTOR (XR,YR) OF TYPE	OF TYPE	RANK	CONC
906	481.	0.93304 (97012115) AT (604972.97, 4860647.92) DC	491.	0.91571		
907	(99022715) AT (604972.97, 4860647.92) DC					
908	482.	0.93161 (99080410) AT (604987.25, 4860621.03) DC	492.	0.91534		
909	(00051708) AT (604987.25, 4860621.03) DC					
910	483.	0.93024 (97030115) AT (604972.97, 4860647.92) DC	493.	0.91494		
911	(00110817) AT (604972.97, 4860647.92) DC					
912	484.	0.92844 (99022712) AT (604972.97, 4860647.92) DC	494.	0.91253		
913	(98030615) AT (604972.97, 4860647.92) DC					
914	485.	0.92536 (00073110) AT (604987.25, 4860621.03) DC	495.	0.91151		
915	(99040211) AT (604987.25, 4860621.03) DC					
916	486.	0.92225 (99041517) AT (604987.25, 4860621.03) DC	496.	0.91124		
917	(99013114) AT (604972.97, 4860647.92) DC					
918	487.	0.92128 (97052909) AT (604987.25, 4860621.03) DC	497.	0.91021		
919	(96120109) AT (604987.25, 4860621.03) DC					
920	488.	0.92039 (99100317) AT (604972.97, 4860647.92) DC	498.	0.90952		
921	(96012909) AT (604987.25, 4860621.03) DC					
922	489.	0.92014 (96122313) AT (604987.25, 4860621.03) DC	499.	0.90853		
923	(96012908) AT (604987.25, 4860621.03) DC					
924	490.	0.91615 (98040108) AT (604972.97, 4860647.92) DC	500.	0.90711		
925	(00052316) AT (604972.97, 4860647.92) DC					

918
 919 *** RECEPTOR TYPES: GC = GRIDCART
 920 GP = GRIDPOLR
 921 DC = DISCCART
 922 DP = DISCPOLR

923 **FF** *** AERMOD - VERSION 19191 *** *** Nobleton Odour
 OU/S *** 07/13/21

924 *** AERMET - VERSION 19191 ***
 *** ***
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 926 PAGE 18
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*

927
928

929
930
931

932
933

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

** CONC OF ODOUR IN
OU/M**3 **

DATE


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

935 -----

936 ALL HIGH 1ST HIGH VALUE IS 17.55249 ON 97120816: AT (604987.25,
937 4860621.03, 250.14, 250.14, 1.50) DC

938
939

940 *** RECEPTOR TYPES: GC = GRIDCART
941 GP = GRIDPOLR
942 DC = DISCCART
943 DP = DISCPOLR

944  *** AERMOD - VERSION 19191 *** *** Nobleton Odour
OU/S *** 07/13/21

945 *** AERMET - VERSION 19191 ***
*** ***
10:59:33

946

947 PAGE 19
948 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*

949 *** Message Summary : AERMOD Model Execution ***

950
951 ----- Summary of Total Messages -----

952
953 A Total of 0 Fatal Error Message(s)
954 A Total of 16 Warning Message(s)
955 A Total of 949 Informational Message(s)
956
957 A Total of 43848 Hours Were Processed
958
959 A Total of 0 Calm Hours Identified
960
961 A Total of 949 Missing Hours Identified (2.16 Percent)

962
963

964 ***** FATAL ERROR MESSAGES *****
965 *** NONE ***

966
967

968 ***** WARNING MESSAGES *****
969 SO W320 36 PPARM: Input Parameter May Be Out-of-Range for
Parameter QS
970 SO W320 37 PPARM: Input Parameter May Be Out-of-Range for
Parameter QS
971 SO W320 38 PPARM: Input Parameter May Be Out-of-Range for
Parameter QS
972 SO W320 39 PPARM: Input Parameter May Be Out-of-Range for
Parameter QS
973 ME W187 213 MEOOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET
974 MX W441 19928 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041008
975 MX W441 19929 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041009
976 MX W441 19930 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=

977 98041010 MX W441 19931 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041011
978 98041012 MX W441 19932 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041013
979 98041014 MX W441 19933 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041015
980 98041016 MX W441 19934 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041017
981 98041018 MX W441 19935 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041019
982 98041020 MX W441 19936 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041021
983 98041022 MX W441 19937 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041023
984 98041024 MX W441 19938 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041025

985
986 *****
987 *** AERMOD Finishes Successfully ***
988 *****
989
990

*** AERMOD - VERSION 19191 *** *** Nobleton Odour OU/S
*** 07/13/21
*** AERMET - VERSION 19191 *** ***
*** 10:59:33

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses RURAL Dispersion Only.

**Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Accepts FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: ODOUR

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

**This Run Includes: 5 Source(s); 1 Source Group(s); and 2
Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 1 POINTHOR(s)
and: 1 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)

and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

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

**The AERMET Input Meteorological Data Version Date: 19191

**Output Options Selected:

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE
Keyword)
Model Outputs External File(s) of Threshold Violations (MAXIFILE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

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

Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 173.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = OU/S ;
Emission Rate Unit Factor = 1.0000
Output Units = OU/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Nobltn_OU.err

**File for Summary of Results: Nobltn_OU.sum

*** AERMOD - VERSION 19191 *** *** Nobleton Odour OU/S
*** 07/13/21
*** AERMET - VERSION 19191 *** ***
*** 10:59:33

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*** MODELOPTs: RegDEFAULT CONC ELEV FLGPOL RURAL ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR

PROCESSING ***

(1=YES; 0=NO)

```

    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

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*** AERMOD - VERSION 19191 *** *** Nobleton Odour OU/S
***                                     07/13/21

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*** AERMET - VERSION 19191 *** ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: Toronto_crops_19191.SFC

Met Version: 19191

Profile file: Toronto_crops_19191.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 61587

Upper air station no.: 725280

Name: TORONTO

Name: BUFFALO

Year: 1996

Year: 1996

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
96	01	01	1	01	-21.5	0.212	-9.000	-9.000	-999.	234.	49.3	0.10	0.50	
1.00	2.60	41.	10.0	273.1	2.0									
96	01	01	1	02	-21.5	0.212	-9.000	-9.000	-999.	234.	49.3	0.10	0.50	
1.00	2.60	38.	10.0	273.1	2.0									
96	01	01	1	03	-34.6	0.341	-9.000	-9.000	-999.	477.	127.6	0.10	0.50	
1.00	4.10	44.	10.0	273.1	2.0									
96	01	01	1	04	-34.6	0.341	-9.000	-9.000	-999.	477.	127.6	0.10	0.50	
1.00	4.10	73.	10.0	273.1	2.0									
96	01	01	1	05	-43.6	0.427	-9.000	-9.000	-999.	671.	201.0	0.10	0.50	
1.00	5.10	63.	10.0	272.5	2.0									
96	01	01	1	06	-39.2	0.384	-9.000	-9.000	-999.	572.	162.1	0.10	0.50	
1.00	4.60	82.	10.0	272.0	2.0									
96	01	01	1	07	-43.6	0.427	-9.000	-9.000	-999.	670.	201.0	0.10	0.50	
1.00	5.10	75.	10.0	272.0	2.0									
96	01	01	1	08	-39.3	0.384	-9.000	-9.000	-999.	572.	162.1	0.10	0.50	
1.00	4.60	83.	10.0	271.4	2.0									
96	01	01	1	09	-33.7	0.341	-9.000	-9.000	-999.	479.	127.7	0.10	0.50	
0.82	4.10	67.	10.0	270.4	2.0									
96	01	01	1	10	-25.9	0.343	-9.000	-9.000	-999.	481.	137.3	0.10	0.50	
0.69	4.10	61.	10.0	269.9	2.0									
96	01	01	1	11	-18.7	0.435	-9.000	-9.000	-999.	689.	390.6	0.10	0.50	
0.64	5.10	54.	10.0	269.9	2.0									
96	01	01	1	12	-6.0	0.353	-9.000	-9.000	-999.	507.	650.3	0.10	0.50	
0.62	4.10	66.	10.0	269.2	2.0									
96	01	01	1	13	-3.1	0.355	-9.000	-9.000	-999.	508.	1282.7	0.10	0.50	
0.62	4.10	73.	10.0	269.2	2.0									
96	01	01	1	14	-8.0	0.351	-9.000	-9.000	-999.	499.	478.4	0.10	0.50	
0.63	4.10	59.	10.0	269.2	2.0									
96	01	01	1	15	-20.4	0.389	-9.000	-9.000	-999.	583.	256.7	0.10	0.50	
0.65	4.60	62.	10.0	268.8	2.0									
96	01	01	1	16	-32.4	0.385	-9.000	-9.000	-999.	574.	163.4	0.10	0.50	
0.72	4.60	34.	10.0	268.8	2.0									
96	01	01	1	17	-22.1	0.211	-9.000	-9.000	-999.	257.	49.2	0.10	0.50	
0.89	2.60	31.	10.0	265.9	2.0									
96	01	01	1	18	-39.9	0.384	-9.000	-9.000	-999.	570.	162.0	0.10	0.50	
1.00	4.60	7.	10.0	267.0	2.0									
96	01	01	1	19	-35.4	0.340	-9.000	-9.000	-999.	478.	127.5	0.10	0.50	
1.00	4.10	14.	10.0	267.0	2.0									
96	01	01	1	20	-35.5	0.340	-9.000	-9.000	-999.	477.	127.4	0.10	0.50	
1.00	4.10	7.	10.0	266.4	2.0									
96	01	01	1	21	-44.5	0.427	-9.000	-9.000	-999.	670.	200.8	0.10	0.50	

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1.00  5.10  10.  10.0  266.4  2.0
 96 01 01  1 22 -44.6  0.427 -9.000 -9.000 -999.  670.  200.8  0.10  0.50
1.00  5.10  32.  10.0  265.9  2.0
 96 01 01  1 23 -31.1  0.297 -9.000 -9.000 -999.  401.  97.2  0.10  0.50
1.00  3.60  30.  10.0  265.9  2.0
 96 01 01  1 24 -35.5  0.340 -9.000 -9.000 -999.  476.  127.4  0.10  0.50
1.00  4.10  30.  10.0  265.9  2.0

```

First hour of profile data

```

YR MO DY HR HEIGHT F  WDIR  WSPD AMB_TMP sigmaA  sigmaW  sigmaV
96 01 01 01  10.0 1  41.   2.60  273.2  99.0 -99.00 -99.00

```

F indicates top of profile (=1) or below (=0)

```

*** AERMOD - VERSION 19191 ***   *** Nobleton Odour OU/S
***                               ***
***                               07/13/21
*** AERMET - VERSION 19191 ***   ***
***                               ***
***                               10:59:33

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*** MODELOPTs:  RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*

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*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF ODOUR IN OU/M**3

**

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

```

ALL HIGH 1ST HIGH VALUE IS 17.55249 ON 97120816: AT ( 604987.25,
4860621.03, 250.14, 250.14, 1.50) DC

```

```

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

```

```

*** AERMOD - VERSION 19191 ***   *** Nobleton Odour OU/S
***                               ***
***                               07/13/21
*** AERMET - VERSION 19191 ***   ***
***                               ***
***                               10:59:33

```

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL RURAL ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 16 Warning Message(s)
A Total of 949 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 949 Missing Hours Identified (2.16 Percent)

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

***** WARNING MESSAGES *****
SO W320 36 PPARM: Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 37 PPARM: Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 38 PPARM: Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 39 PPARM: Input Parameter May Be Out-of-Range for Parameter
QS
ME W187 213 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

MX W441 19928 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041008
MX W441 19929 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041009
MX W441 19930 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041010
MX W441 19931 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041011
MX W441 19932 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041012
MX W441 19933 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041013
MX W441 19934 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041014
MX W441 19935 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041015
MX W441 19936 METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
98041016

MX W441 19937
98041017
MX W441 19938
98041018

METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=
METQA: Vert Pot Temp Grad abv ZI set to min .005, KURDAT=