

JBS41278-50806

18 June 2012

ATT: Paul Robilliard
Precinct Project Manager
Strategies & Land Release
Department of Planning & Infrastructure
(sent via email: paul.robilliard@planning.nsw.gov.au)

Addendum to JBS (July 2011) 'Odour Assessment, Austral and Leppington North Precinct'

Dear Mr Robilliard,

1. Introduction and Background

JBS Environmental Pty Ltd (JBS) was engaged by the NSW Department of Planning and Infrastructure (the Department) to prepare this addendum to 'Odour Assessment, Austral and Leppington North Precinct', JBS Environmental Pty Ltd dated July 2011 (JBS 2011), which was completed for the proposed Sydney Growth Centre release identified as the Austral and Leppington North Precincts (the site). The boundaries of the site are shown on **Figure 1 (Attachment 2)**.

Subsequent to public exhibition of JBS (2011), along with the Austral and Leppington Draft Precinct Plan in late 2011, and receipt of submissions from the public and other relevant stakeholders, JBS was requested to revise the odour modelling presented in JBS (2011) in response to the following comments:

- Confirmation of whether process to identify odour sources was a desktop review of aerials, site inspection or both; and
- Consideration of potential odour sources within a 500m radius of the site boundaries.

At the request of the Department, the additional works have not been issued as a revised version of the JBS (2011) report, rather this addendum has been prepared to address the comments above. This Addendum when read in conjunction with (JBS 2011) provides an assessment of potential odour impacts on the site including those potential odours sources located within 500m of the site boundaries.

2. Method of Odour Source Identification

As part of JBS (2011), permission to enter operation poultry operations was grant for only a handful of premises. Noting that most poultry farm operators are vigilant in preventing the transmission from other premises onto their sheds, this limited access to properties was not unexpected.

Identification of potential odour sources in JBS (2011), and this addendum, was therefore a combination of desktop aerial review and viewing of the premises from the street. All reasonable efforts were made during the street inspection to ascertain whether each source property was operational or disused. However, noting the preliminary nature of the assessment reported in JBS (2011) and this Addendum, any property where site observations were inconclusive as to its operational status, were included as a potential source in the odour modelling.

3. Revision of Odour Modelling to Include External Sources

The revised odour modelling was conducted in accordance with the methods presented in JBS (2011).

3.1. Identification of Poultry Farms External to Site Boundaries

JBS has assessed all poultry farms identified within a 500m radius, as nominated by the Department. The 500m distance is also considered to be consistent with the majority of published recommended minimum separation distances of poultry sheds to a range of adjoining land-uses, including urban residential areas, as summarised in JBS (2011).

The poultry farms identified within a 500m radius of the site boundaries are summarised in **Table 1** following and shown on **Figure 2 (Attachment 2)**.

Table 1: Summary of Poultry Farms in Proximity of the Site

Address	Operation Type	Shed ID	Easting	Northing	Shed Dimensions (m)
1342 Camden Valley Way, Leppington	Broiler (meat)	1	298407	6239431	15 x 50
		2	298433	6239416	15 x 50
		3	298459	6239404	15 x 50
		4	298484	6239390	20 x 50
1431 Camden Valley Way, Leppington	Broiler (meat)	1	298062	6239349	15 x 45
48 Dickson Road Leppington	Broiler (meat)	1	296502	6239859	15 x 130
		2	296518	6239881	15 x 130
		3	296533	6239899	15 x 130
215 Flynn Avenue, West Hoxton	Broiler (meat)	1	299510	6244911	5 x 55
		2	299520	6244914	5 x 55
		3	299529	6244914	5 x 55
		4	299538	6244913	5 x 55
		5	299547	6244893	5 x 55
		6	299532	6244881	5 x 50
280 Gurner Avenue, Kemps Creek	Broiler (meat)	1	295740	6245746	20 x 135
		2	295758	6245761	15 x 135
		3	295783	6245766	15 x 135
705 Fifteenth Avenue, Kemps Creek	Broiler (meat)	1	295966	6245055	15 x 60
		2	295975	6245027	15 x 60
		3	295724	6244882	13 x 60
700 fifteenth Avenue, Rossmore	Broiler (meat)	1	295726	6244907	13 x 60
		2	295728	6244936	13 x 60
		3	295970	6244817	13 x 60
670 Fifteenth Avenue, Kemps Creek	Broiler (meat)	1	295972	6244841	13 x 60
		2	295978	6244864	13 x 60
		3	295983	6244892	13 x 60
		4	295338	6244262	15 x 60
505 Twelfth Avenue, Rossmore	Broiler (meat)	1	295342	6244289	15 x 60
		2	295000	6242692	15 x 90
2 Wynyard Avenue, Rossmore	Broiler (meat)	1	295023	6242686	15 x 90
		2	295047	6242685	15 x 90
		3	295072	6242687	15 x 110
		4	298407	6239431	15 x 50
1342 Camden Valley Way, Leppington	Broiler (meat)	1	298433	6239416	15 x 50
		2	298459	6239404	15 x 50
		3	298484	6239390	20 x 50
		4	298062	6239349	15 x 45

3.2. Dispersion Modelling

Dispersion modelling was revised for the site to include all the external sources listed in **Table 1** to the sources listed in JBS (2011). Dispersion modelling was conducted as per the methods present in JBS (2011). Briefly inputs and options used in the modelling are summarised as follows:

- An odour emission rate was derived from the ventilation rate for each shed and an odour level of 324 OU/m³. In estimating a ventilation rate it has been assumed that the poultry sheds are an average height of 4 m. A maximum daily ventilation rate has been estimated at 18 volume changes per hour;
- For the purposes of modelling, for temperature 15°C and lower, the emissions from poultry sheds were set as 10% of daytime emissions. On this basis, a temperature dependent variable emission rate file was prepared.
- Two years of meteorological data from the Bringelly weather station was adopted for the site; and
- All poultry sheds were assumed to be naturally ventilated based on no venting infrastructure being observed during street side inspection of the source sites.

Justification for the use of these values is provided in JBS (2011).

4. Dispersion Model Results

The AUSPLUME model outputs are provided in **Attachment 2**, and are summarised in **Figures 3 and 4 (Attachment 2)** which show the frequency of selected odour criteria being exceeded across the area of the site. Discussion of relevant assessment criteria is provided in JBS (2011).

Review of **Figure 5 (Attachment 2)** indicates that when compared to the 2 OU criteria (i.e. for urban land use), revised modelled odour emissions from the existing poultry farm operations within the boundaries of

the Precinct and within 500m of the Precinct, exceed the 2 OU value at a 99th percentile over the entire precinct.

Review of **Figure 6 (Attachment 2)** indicates that when compared to the 7 OU criteria (i.e. for rural use), revised modelled odour emissions from the existing poultry farm operations within the boundaries of the Precinct and within 500m of the Precinct, exceed the 7 OU value at a 99th percentile over approximately 50% of the precinct.

As with the original assessment JBS (2011) the revised results also suggest that the southern portion of the site is more suitable for immediate residential development than the northern end.

5. Discussion of Results

The original odour assessment modelling detailed in JBS (2011), considering only potential odour sources located within the boundaries of the site, indicated that when compared to the 2 OU 99% compliance criteria (i.e. the lowest criteria endorsed by the NSW DECCW, based on high density urban land use), approximately 90% of the precinct area is unacceptably impacted.

The revised modelling reported herein, completed to include potential odour sources located within 500m of the Precinct boundaries, has indicated that the entire Precinct area is affected by potentially unacceptable odours.

As such the conclusions and discussion provided in JBS (2011) are still considered valid, and are summarised as follows.

Notwithstanding the conservatism applied in the dispersion modelling, the results suggest that potential existing odour levels from poultry operations will be required to be considered in the development of the precinct. It should be noted that new residents whom move to area are unlikely to share the existing tolerance of poultry odours that presumably currently occurs in the area.

The greatest odour impacts were predicted along the length of the western side of the precinct consequent of higher density of poultry sheds located within and external to the Precinct boundaries.

However in viewing the current plans, it is acknowledged that the land in the Precincts will be rezoned to allow the planned development to proceed on this area of predominantly 'rural/small holdings'. Under such a rezoning it is likely that the current odour sources would be progressively developed over time for urban use, and would therefore not need to be considered as permanent limiting factors for the development of the Precincts. Such a scenario however would require a mechanism for notification, or controls on development in the zoning transition period, to ensure future purchasers were made aware of the potential for odour impacts. JBS understands that recent Sydney Growth Centre Projects have encountered similar situations where modelled odour footprints associated with pre-existing sources span large sections of the development area. In these situations the Development Control Plans (DCPs) were used successfully to identify areas potentially impacted by odours over the transition period. Subject to completion of further detailed assessments to further define the extent of odour impacts as described below, a similar approach may be suitable for the Austral and Leppington North Precincts.

Alternately a range of controls may be applied at both the operational and management level to mitigate odour impacts during in the rezoning transition period. This may comprise:

- Upgrading existing poultry sheds from natural ventilation to being tunnel ventilated with either treatment of the emissions prior to discharge or release through a stack;
- Use of vegetation buffer walls between poultry sheds and residential dwellings; or
- Investigation of acceptable separation distances by undertaking detailed dispersion modelling around each odour source site.

In viewing the results it should also be noted that the current assessment is considered a Level 1 Impact Assessment in accordance with NSW DEC (2005), which requires the use of worst-case input data. The results are substantially based on the predicted rates of odour emissions which have been measured at other sites. These measured rates of odour emissions were typically measured as worse case conditions on the other sites and are considered to be extremely conservative.

Notwithstanding the selection of the appropriate controls or DCP mechanisms, it is recommended that detailed odour assessment of the poultry sheds is completed. The modelling presented in the current study has assumed worst case conditions consistently occur across the entire precinct, whilst in reality the factors described in **Section 3.2** (e.g. temperature and ventilation rates) can vary significantly. The detailed assessment could primarily focus on site specific odour measurements on a representative number of poultry sheds with a view to characterising changes in the odour emission rates over time, as follows:

- Routine odour (or ammonia) concentrations measured both inside and outside the selected sheds to profile the impact of changes in atmospheric dispersion conditions over the course of each day;
- Routine odour (or ammonia) concentrations measured both inside and outside the selected sheds over the course of a breeding cycle to profile the impact of the batch age;
- A staged trial involving odour and/or ammonia measurements inside and outside the selected sheds while the size of side wall openings are varied to profile the impact of changes in ventilation rate; and
- Inclusion of odour sources external to the precinct boundaries.

The site specific data collected would be used to modify the odour emission rate inputs such that the dispersion modelling would be reflective of normal site conditions. The results would allow for more appropriate separation distances to be determined for the precinct. These detailed assessments would be undertaken on a local scale with other detailed land capability studies as would be anticipated with the proposed redevelopment of the precinct.

Prepared by:

Reviewed/Approved by:

Sumi Dorairaj
Environmental Consultant
JBS Environmental Pty Ltd

Matthew Parkinson
Principal
JBS Environmental Pty Ltd

Attachments: (1) Limitations
 (2) Figures
 (3) AUSPLUME Model Outputs

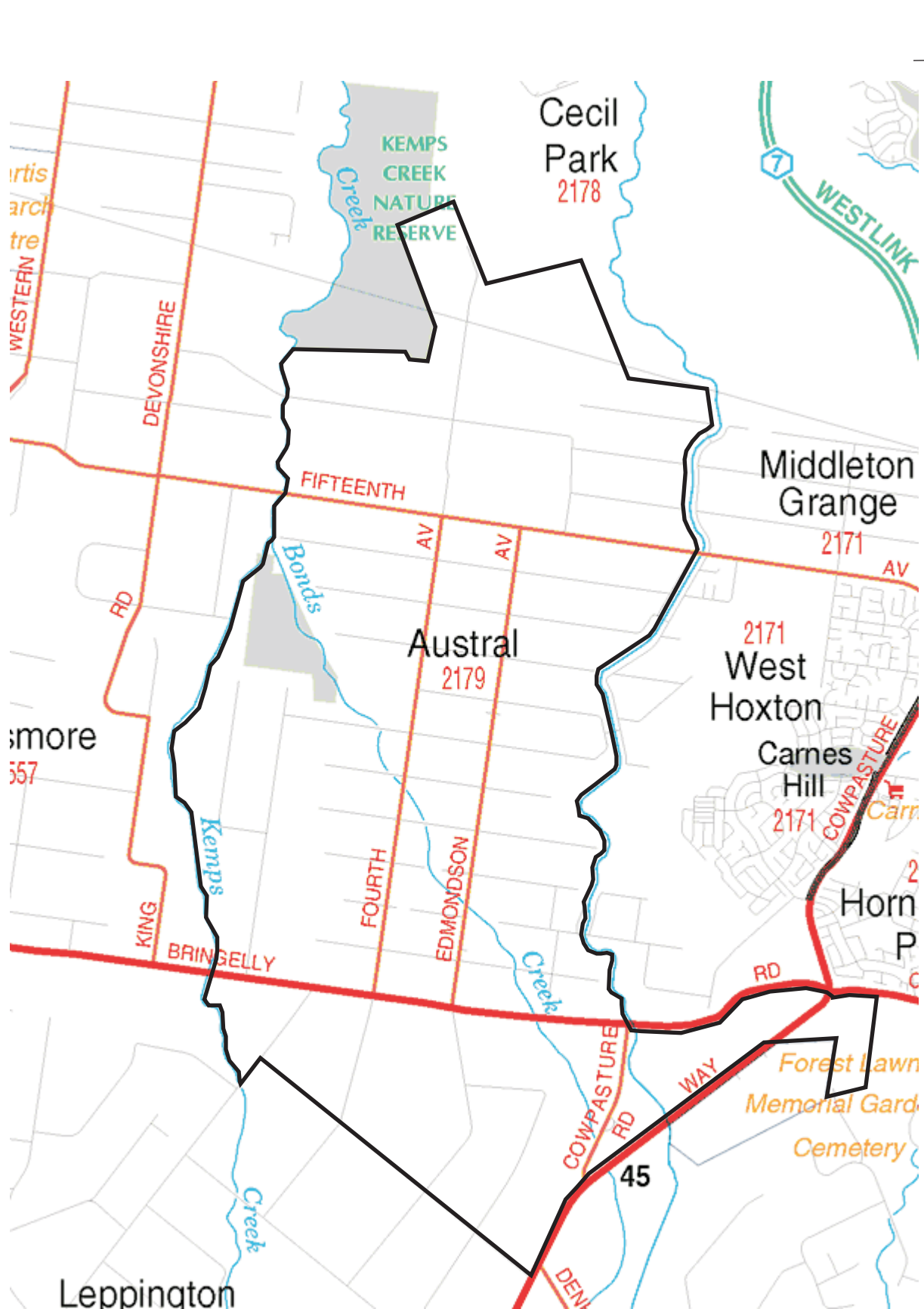
Attachment 1 – Limitations

This report has been prepared for use by the client who commissioned the works in accordance with the project brief only and has been based in part on information obtained from other parties. The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

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This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS Environmental Pty Ltd reserves the right to review the report in the context of the additional information

Attachment 2 –Figures



Map reproduced with permission of UBD
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Legend

— Site Boundary



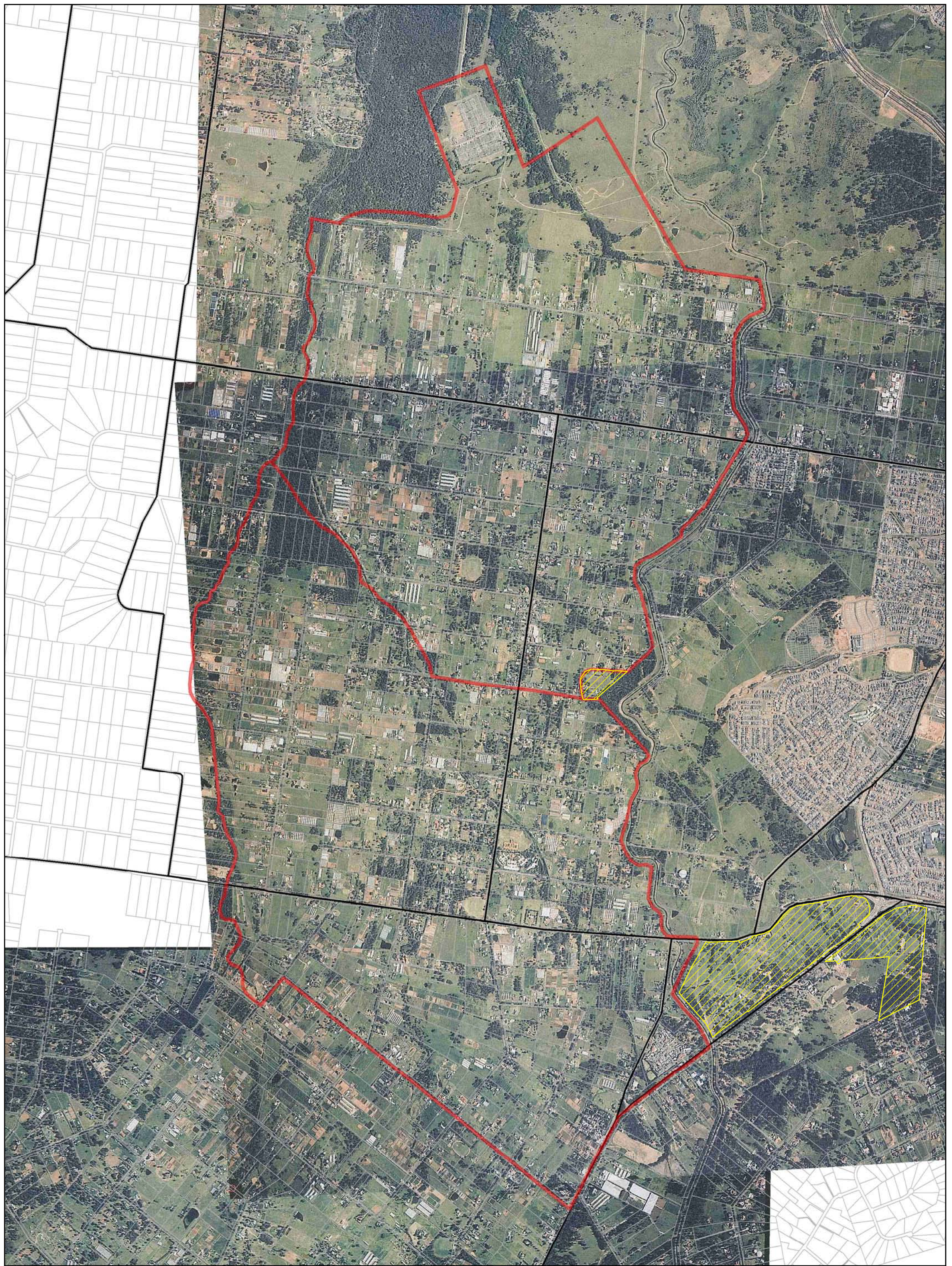
Figure 1 Site Location

Client: Department of Planning

Job Number: 41278

Project: Land Capability Assessment - Austral and Leppington North, NSW

File Name: 41278_01.cdr



Precinct Boundary



Investigation Areas



Cadastre



Major Roads

0 0.3 0.6 1.2 Kilometers



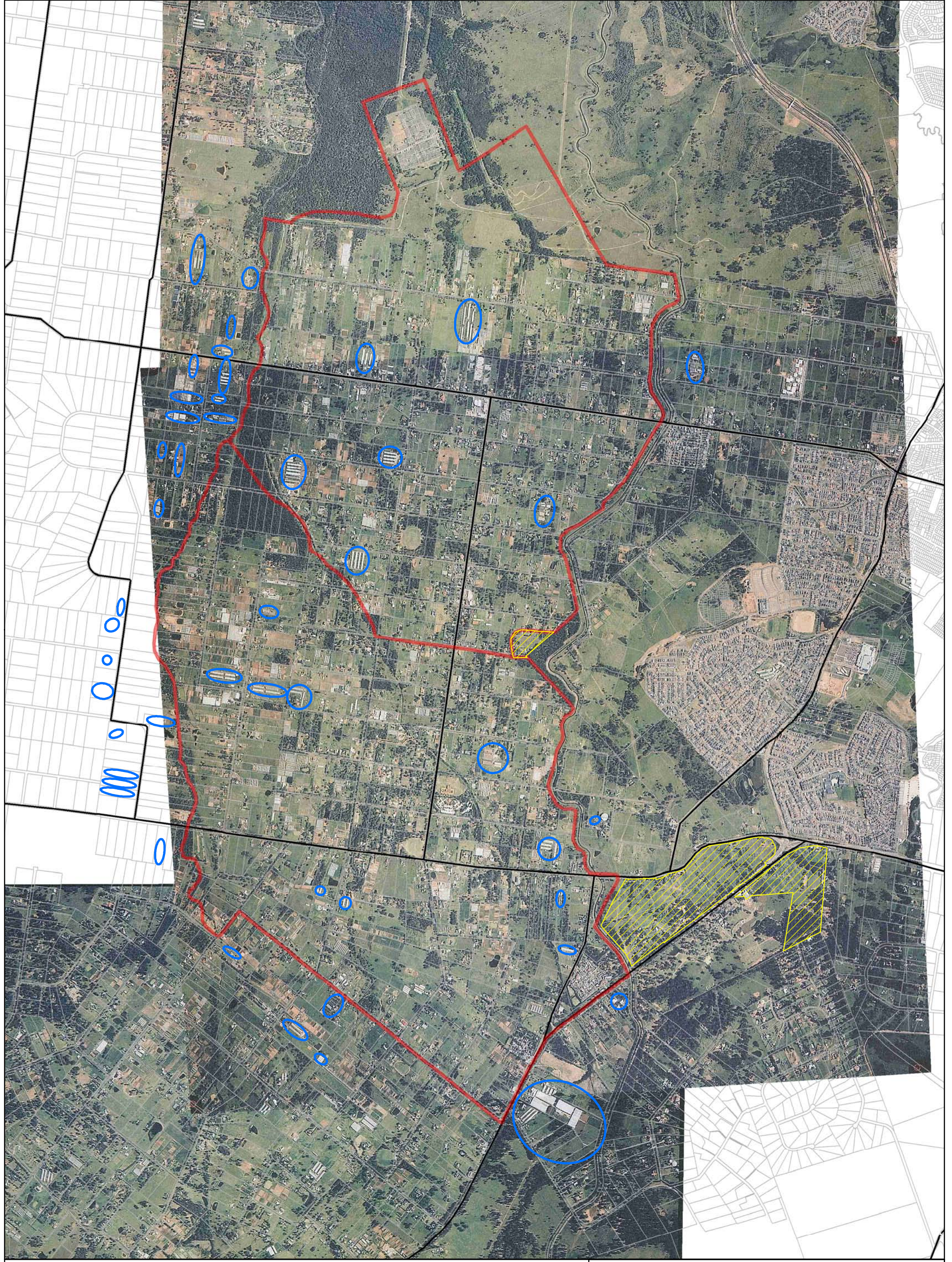
Figure 2: Site Layout



Project: Austral and Leppington North Land Capability Assessment

Client: Department of Planning

Job No: 41278



-  Poultry Shed Locations
-  Investigation Areas
-  Precinct Boundary
-  Major Roads
-  Cadastre

0 0.25 0.5 1
Kilometers

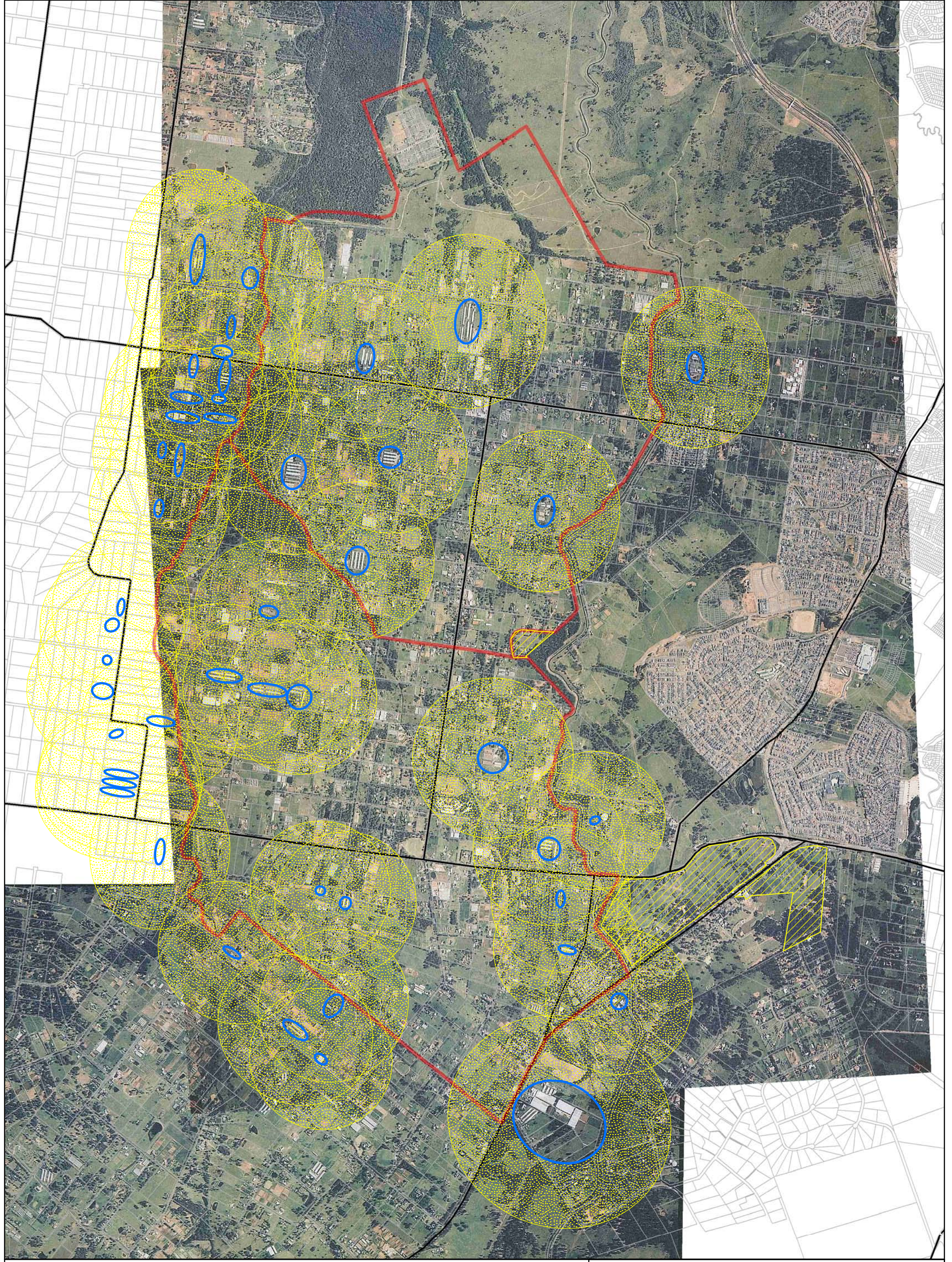


Figure 3: Poultry Shed Locations

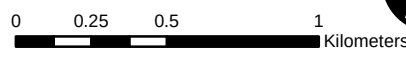
Project: Austral and Leppington North Land Capability Assessment

Client: Department of Planning

Job No: 41278



-  Poultry Shed Locations
-  Poultry Shed Locations 500m Radius
-  Investigation Areas
-  Precinct Boundary
-  Major Roads
-  Cadastre



**Figure 4 Poultry Shed Locations
500m Radius**

Project: Austral and Leppington North Land Capability Assessment

Client: Department of Planning

Job No: 41278

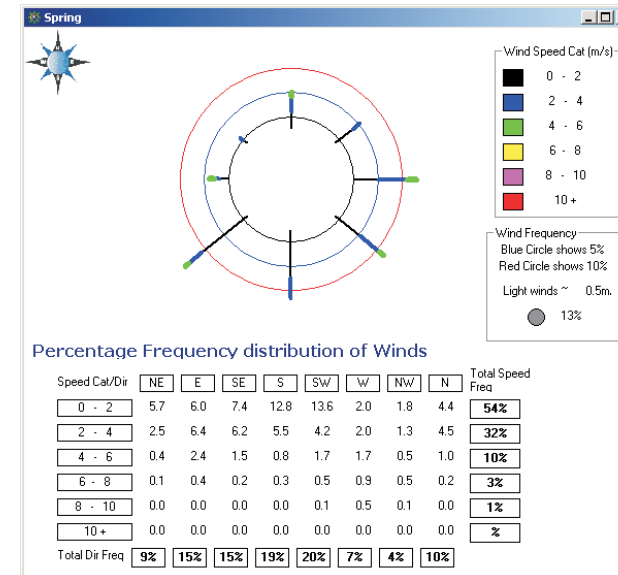
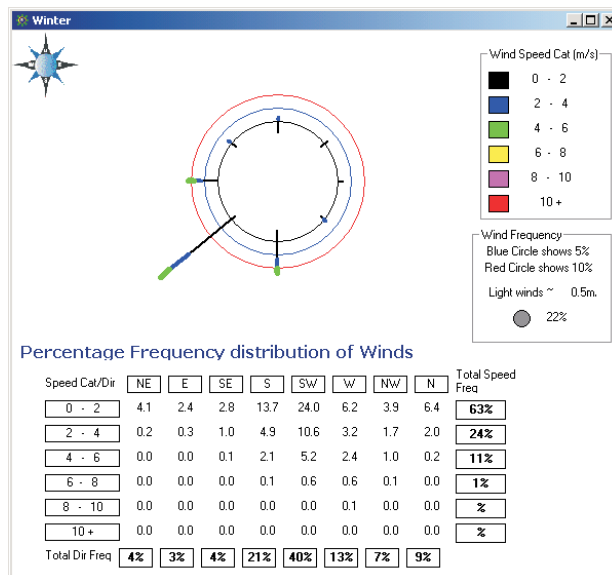
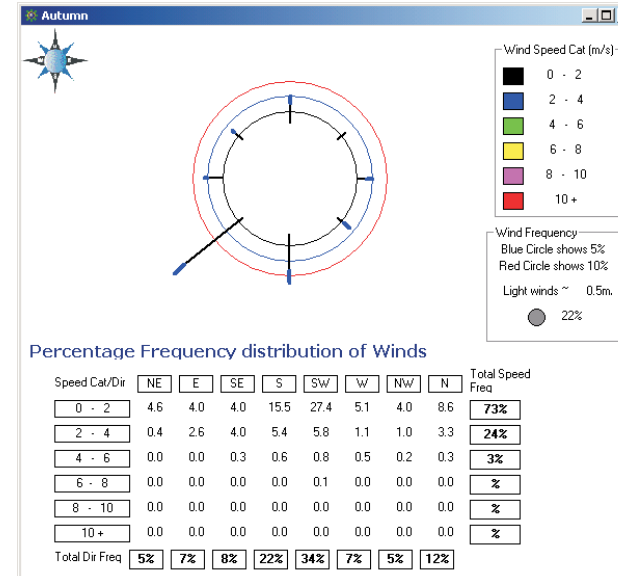
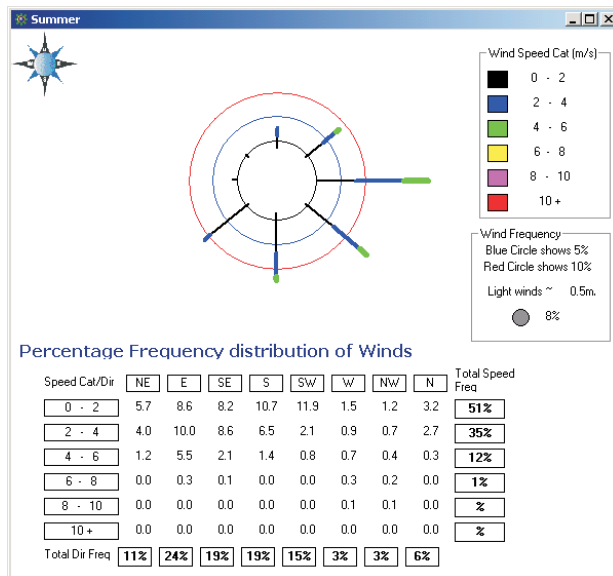
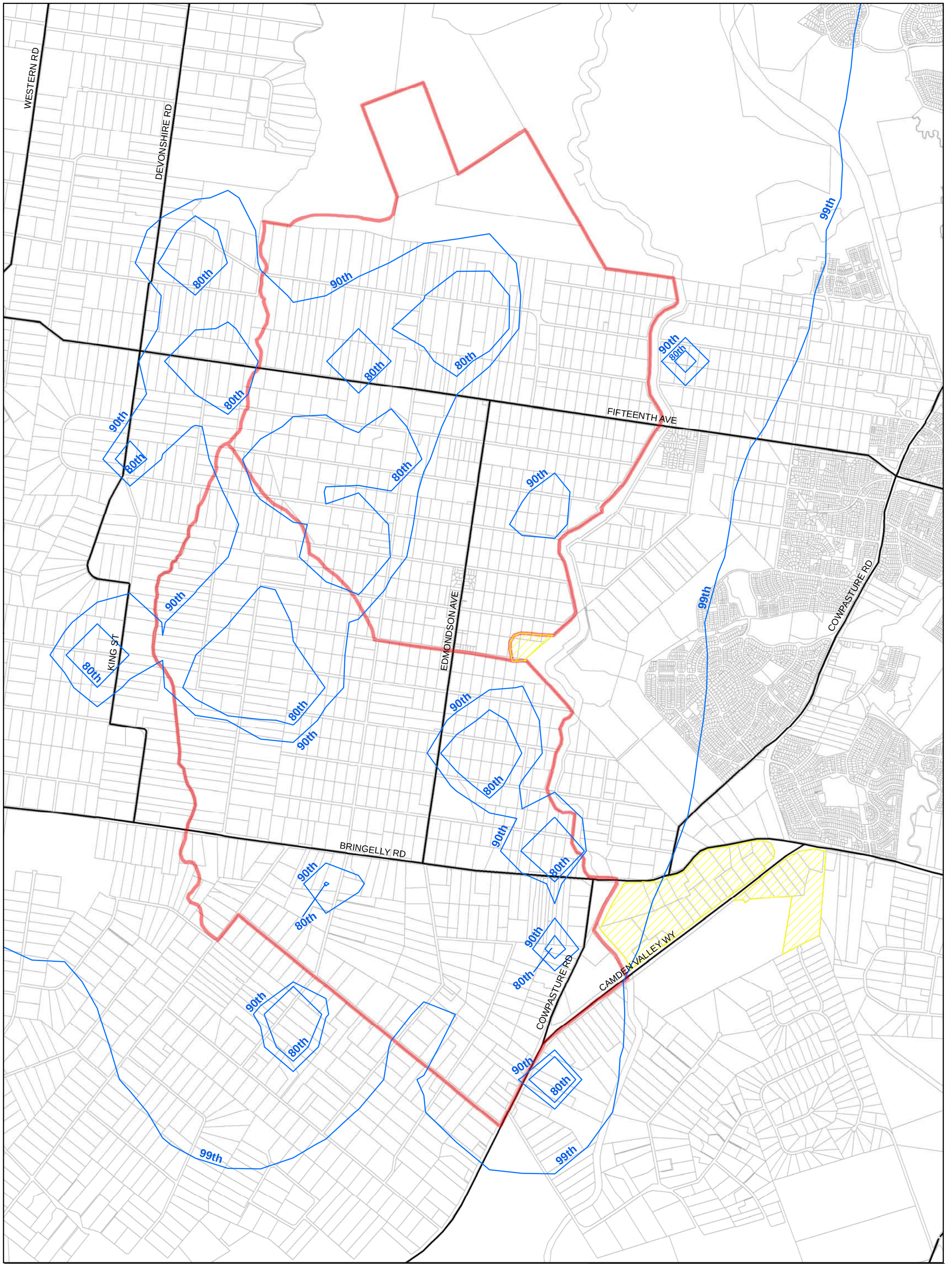


Figure 5 Seasonal Wind Roses
Bringingly Air Monitoring Station 2007-2008

Department of Lands (2010)
Note- All locations shown are approximate only



- Contour of Criteria Exceedances (2 OU)
- Investigation Areas
- Precinct Boundary
- Major Roads
- Cadastre

0 0.25 0.5 1 Kilometers

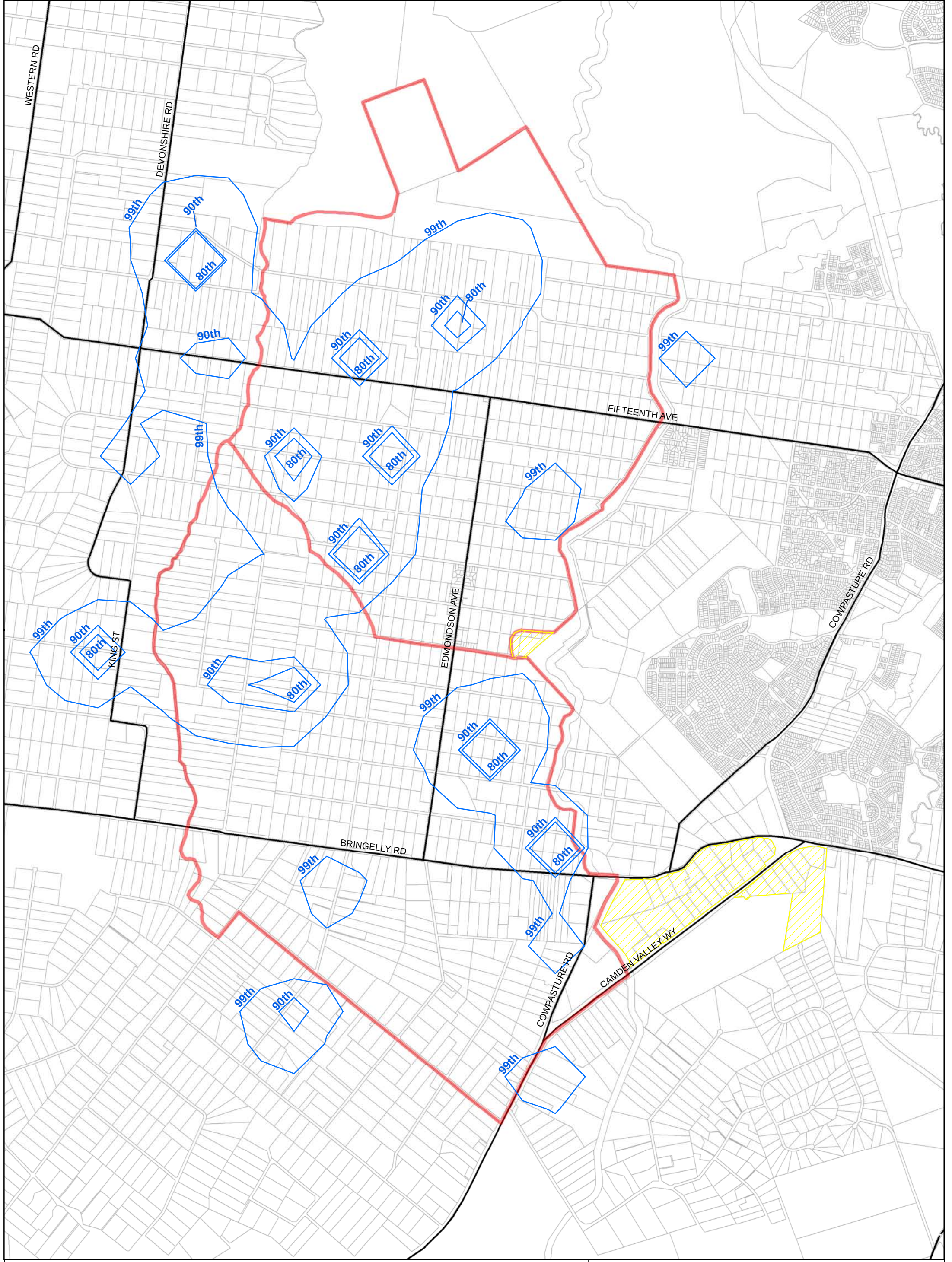


Figure 6: Frequency of Odour Unit (2OU) Criteria Exceedances

Project: Austral and Leppington North Land Capability Assessment

Client: Department of Planning

Job No: 41278



- Contour of Criteria Exceedence (7 OU)
- Investigation Areas
- Precinct Boundary
- Major Roads
- Cadastrate

0 0.25 0.5 1 Kilometers



Attachment 3 – AUSPLUME Model Outputs

41278 Odour Source 1 to 26 - Naturally Ventilated Sheds

Concentration or deposition	Concentration
Emission rate units	OUV/second
Concentration units	Odour_Units
Units conversion factor	1.00E+00
Constant background concentration	0.00E+00
Terrain effects	Egan method
Smooth stability class changes?	No
Other stability class adjustments ("urban modes")	None
Ignore building wake effects?	No
Decay coefficient (unless overridden by met. file)	0.000
Anemometer height	10 m
Roughness height at the wind vane site	0.300 m
Averaging time for sigma-theta values	60 min.

DISPERSION CURVES

Horizontal dispersion curves for sources <100m high Sigma-theta
Vertical dispersion curves for sources <100m high Pasquill-Gifford
Horizontal dispersion curves for sources >100m high Briggs Rural
Vertical dispersion curves for sources >100m high Briggs Rural
Enhance horizontal plume spreads for buoyancy? Yes
Enhance vertical plume spreads for buoyancy? Yes
Adjust horizontal P-G formulae for roughness height? Yes
Adjust vertical P-G formulae for roughness height? Yes
Roughness height 0.400m
Adjustment for wind directional shear None

PLUME RISE OPTIONS

Gradual plume rise? Yes
Stack-tip downwash included? Yes
Building downwash algorithm: PRIME method.
Entrainment coeff. for neutral & stable lapse rates 0.60,0.60
Partial penetration of elevated inversions? No
Disregard temp. gradients in the hourly met. file? No

and in the absence of boundary-layer potential temperature gradients
given by the hourly met. file, a value from the following table
(in K/m) is used:

Wind Speed Category	Stability Class					
	A	B	C	D	E	F
1	0.000	0.000	0.000	0.000	0.020	0.035
2	0.000	0.000	0.000	0.000	0.020	0.035
3	0.000	0.000	0.000	0.000	0.020	0.035
4	0.000	0.000	0.000	0.000	0.020	0.035
5	0.000	0.000	0.000	0.000	0.020	0.035
6	0.000	0.000	0.000	0.000	0.020	0.035

WIND SPEED CATEGORIES

Boundaries between categories (in m/s) are: 1.54, 3.09, 5.14, 8.23, 10.80

WIND PROFILE EXPONENTS: "Irwin Urban" values (unless overridden by met. file)

AVERAGING TIMES

1 hour

1

41278 Odour Source 1 to 26 - Naturally Ventilated Sheds

SOURCE CHARACTERISTICS

VOLUME SOURCE: NS1SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297800	6245326	77m	1m	31m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.22E+03	5C 1.22E+03	10C 1.22E+03	15C 1.22E+03
20C 1.22E+04	25C 1.22E+04	30C 1.22E+04	35C 1.22E+04
40C 1.22E+04	45C 1.22E+04	50C 1.22E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS1SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297821	6245302	77m	1m	29m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.12E+03	5C 1.12E+03	10C 1.12E+03	15C 1.12E+03
20C 1.12E+04	25C 1.12E+04	30C 1.12E+04	35C 1.12E+04
40C 1.12E+04	45C 1.12E+04	50C 1.12E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS1SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297855	6245282	77m	1m	19m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.29E+02	5C 7.29E+02	10C 7.29E+02	15C 7.29E+02
20C 7.29E+03	25C 7.29E+03	30C 7.29E+03	35C 7.29E+03
40C 7.29E+03	45C 7.29E+03	50C 7.29E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS1SD

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297772	6245151	77m	1m	23m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.75E+02	5C 8.75E+02	10C 8.75E+02	15C 8.75E+02
20C 8.75E+03	25C 8.75E+03	30C 8.75E+03	35C 8.75E+03
40C 8.75E+03	45C 8.75E+03	50C 8.75E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS1SE

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297815	6245166	77m	1m	29m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.12E+03	5C 1.12E+03	10C 1.12E+03	15C 1.12E+03
20C 1.12E+04	25C 1.12E+04	30C 1.12E+04	35C 1.12E+04
40C 1.12E+04	45C 1.12E+04	50C 1.12E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS1SF

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297849	6245201	77m	1m	29m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.12E+03	5C 1.12E+03	10C 1.12E+03	15C 1.12E+03
20C 1.12E+04	25C 1.12E+04	30C 1.12E+04	35C 1.12E+04
40C 1.12E+04	45C 1.12E+04	50C 1.12E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS2SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297025	6245017	68m	1m	29m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS2SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297052	6244998	68m	1m	19m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.29E+02	5C 7.29E+02	10C 7.29E+02	15C 7.29E+02
20C 7.29E+03	25C 7.29E+03	30C 7.29E+03	35C 7.29E+03
40C 7.29E+03	45C 7.29E+03	50C 7.29E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS2SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297083	6244996	68m	1m	19m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.29E+02	5C 7.29E+02	10C 7.29E+02	15C 7.29E+02
20C 7.29E+03	25C 7.29E+03	30C 7.29E+03	35C 7.29E+03
40C 7.29E+03	45C 7.29E+03	50C 7.29E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N32SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296501	6244194	83m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N32SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296500	6244170	83m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N32SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296496	6244146	83m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N32SD

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296489	6244121	83m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N32SE

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296485	6244091	83m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N32SF

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296484	6244063	83m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N42SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297221	6244213	65m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N42SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297226	6	65m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N42SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297233	6244262	65m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N42SD

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297229	6244286	65m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N52SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298386	6243771	90m	1m	10m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.20E+02	5C 5.20E+02	10C 5.20E+02	15C 5.20E+02
20C 5.20E+03	25C 5.20E+03	30C 5.20E+03	35C 5.20E+03
40C 5.20E+03	45C 5.20E+03	50C 5.20E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N52SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298391	6243809	90m	1m	9m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 4.50E+02	5C 4.50E+02	10C 4.50E+02	15C 4.50E+02
20C 4.50E+03	25C 4.50E+03	30C 4.50E+03	35C 4.50E+03
40C 4.50E+03	45C 4.50E+03	50C 4.50E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N52SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298435	6243815	90m	1m	9m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.78E+02	5C 7.78E+02	10C 7.78E+02	15C 7.78E+02
20C 7.78E+03	25C 7.78E+03	30C 7.78E+03	35C 7.78E+03
40C 7.78E+03	45C 7.78E+03	50C 7.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS6SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296944	6243642	64m	1m	31m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.22E+03	5C 1.22E+03	10C 1.22E+03	15C 1.22E+03
20C 1.22E+04	25C 1.22E+04	30C 1.22E+04	35C 1.22E+04
40C 1.22E+04	45C 1.22E+04	50C 1.22E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS6SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296971	6243456	64m	1m	31m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.22E+03	5C 1.22E+03	10C 1.22E+03	15C 1.22E+03
20C 1.22E+04	25C 1.22E+04	30C 1.22E+04	35C 1.22E+04
40C 1.22E+04	45C 1.22E+04	50C 1.22E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS6SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296998	6243451	64m	1m	31m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.22E+03	5C 1.22E+03	10C 1.22E+03	15C 1.22E+03
20C 1.22E+04	25C 1.22E+04	30C 1.22E+04	35C 1.22E+04
40C 1.22E+04	45C 1.22E+04	50C 1.22E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS6SD

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297024	6243445	64m	1m	31m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.22E+03	5C 1.22E+03	10C 1.22E+03	15C 1.22E+03
20C 1.22E+04	25C 1.22E+04	30C 1.22E+04	35C 1.22E+04
40C 1.22E+04	45C 1.22E+04	50C 1.22E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS7SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296287	6243057	68m	1m	11m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.75E+02	5C 8.75E+02	10C 8.75E+02	15C 8.75E+02
20C 8.75E+03	25C 8.75E+03	30C 8.75E+03	35C 8.75E+03
40C 8.75E+03	45C 8.75E+03	50C 8.75E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS7SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296333	6243049	68m	1m	11m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.75E+02	5C 8.75E+02	10C 8.75E+02	15C 8.75E+02
20C 8.75E+03	25C 8.75E+03	30C 8.75E+03	35C 8.75E+03
40C 8.75E+03	45C 8.75E+03	50C 8.75E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS8SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295916	6242580	76m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS8SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295918	6242565	76m	1m	18m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 6.80E+02	5C 6.80E+02	10C 6.80E+02	15C 6.80E+02
20C 6.80E+03	25C 6.80E+03	30C 6.80E+03	35C 6.80E+03
40C 6.80E+03	45C 6.80E+03	50C 6.80E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS8SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295914	6242554	76m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS8SD

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296016	6242539	76m	1m	18m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 6.80E+02	5C 6.80E+02	10C 6.80E+02	15C 6.80E+02
20C 6.80E+03	25C 6.80E+03	30C 6.80E+03	35C 6.80E+03
40C 6.80E+03	45C 6.80E+03	50C 6.80E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N92SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296232	6242472	78m	1m	20m	10m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.77E+02	5C 7.77E+02	10C 7.77E+02	15C 7.77E+02
20C 7.78E+03	25C 7.78E+03	30C 7.78E+03	35C 7.78E+03
40C 7.78E+03	45C 7.78E+03	50C 7.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS9SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296336	6242459	78m	1m	23m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.75E+02	5C 8.75E+02	10C 8.75E+02	15C 8.75E+02
20C 8.75E+03	25C 8.75E+03	30C 8.75E+03	35C 8.75E+03
40C 8.75E+03	45C 8.75E+03	50C 8.75E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: N92SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296227	6242448	78m	1m	20m	10m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.77E+02	5C 7.77E+02	10C 7.77E+02	15C 7.77E+02
20C 7.77E+03	25C 7.77E+03	30C 7.77E+03	35C 7.77E+03
40C 7.77E+03	45C 7.77E+03	50C 7.77E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS9SD

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296338	6242432	78m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS10SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296525	6242459	81m	1m	25m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.72E+02	5C 9.72E+02	10C 9.72E+02	15C 9.72E+02
20C 9.72E+03	25C 9.72E+03	30C 9.72E+03	35C 9.72E+03
40C 9.72E+03	45C 9.72E+03	50C 9.72E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS10SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296514	6242433	81m	1m	23m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.75E+02	5C 8.75E+02	10C 8.75E+02	15C 8.75E+02
20C 8.75E+03	25C 8.75E+03	30C 8.75E+03	35C 8.75E+03
40C 8.75E+03	45C 8.75E+03	50C 8.75E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS10SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296571	6242378	81m	1m	28m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.07E+03	5C 1.07E+03	10C 1.07E+03	15C 1.07E+03
20C 1.07E+04	25C 1.07E+04	30C 1.07E+04	35C 1.07E+04
40C 1.07E+04	45C 1.07E+04	50C 1.07E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297986	6241997	78m	1m	16m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.43E+02	5C 8.43E+02	10C 8.43E+02	15C 8.43E+02
20C 8.43E+03	25C 8.43E+03	30C 8.43E+03	35C 8.43E+03
40C 8.43E+03	45C 8.43E+03	50C 8.43E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297984	6241978	78m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.07E+03	5C 1.07E+03	10C 1.07E+03	15C 1.07E+03
20C 1.07E+04	25C 1.07E+04	30C 1.07E+04	35C 1.07E+04
40C 1.07E+04	45C 1.07E+04	50C 1.07E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297979	6241959	78m	1m	16m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.43E+02	5C 8.43E+02	10C 8.43E+02	15C 8.43E+02
20C 8.43E+03	25C 8.43E+03	30C 8.43E+03	35C 8.43E+03
40C 8.43E+03	45C 8.43E+03	50C 8.43E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SD

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297987	6241940	78m	1m	21m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.26E+02	5C 8.26E+02	10C 8.26E+02	15C 8.26E+02
20C 8.26E+03	25C 8.26E+03	30C 8.26E+03	35C 8.26E+03
40C 8.26E+03	45C 8.26E+03	50C 8.26E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SE

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297945	6241917	78m	1m	19m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.29E+02	5C 7.29E+02	10C 7.29E+02	15C 7.29E+02
20C 7.29E+03	25C 7.29E+03	30C 7.29E+03	35C 7.29E+03
40C 7.29E+03	45C 7.29E+03	50C 7.29E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SF

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297981	6241905	78m	1m	19m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.83E+02	5C 5.83E+02	10C 5.83E+02	15C 5.83E+02
20C 5.83E+03	25C 5.83E+03	30C 5.83E+03	35C 5.83E+03
40C 5.83E+03	45C 5.83E+03	50C 5.83E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SG

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
297980	6241894	78m	1m	19m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.42E+02	5C 8.42E+02	10C 8.42E+02	15C 8.42E+02
20C 8.42E+03	25C 8.42E+03	30C 8.42E+03	35C 8.42E+03
40C 8.42E+03	45C 8.42E+03	50C 8.42E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SH

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
2978059	6241896	78m	1m	14m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 4.28E+02	5C 4.28E+02	10C 4.28E+02	15C 4.28E+02
20C 4.28E+03	25C 4.28E+03	30C 4.28E+03	35C 4.28E+03
40C 4.28E+03	45C 4.28E+03	50C 4.28E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS11SI

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298058	6241875	78m	1m	13m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 3.89E+02	5C 3.89E+02	10C 3.89E+02	15C 3.89E+02
20C 3.89E+03	25C 3.89E+03	30C 3.89E+03	35C 3.89E+03
40C 3.89E+03	45C 3.89E+03	50C 3.89E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS12SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298443	6241296	78m	1m	19m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.29E+02	5C 7.29E+02	10C 7.29E+02	15C 7.29E+02
20C 7.29E+03	25C 7.29E+03	30C 7.29E+03	35C 7.29E+03
40C 7.29E+03	45C 7.29E+03	50C 7.29E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS12SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298430	6241271	78m	1m	20m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.77E+02	5C 7.77E+02	10C 7.77E+02	15C 7.77E+02
20C 7.78E+03	25C 7.78E+03	30C 7.78E+03	35C 7.78E+03
40C 7.78E+03	45C 7.78E+03	50C 7.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS12SC

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298424	6241246	78m	1m	20m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 7.77E+02	5C 7.77E+02	10C 7.77E+02	15C 7.77E+02
20C 7.78E+03	25C 7.78E+03	30C 7.78E+03	35C 7.78E+03
40C 7.78E+03	45C 7.78E+03	50C 7.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS12SD

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298497	6241233	78m	1m	29m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.12E+03	5C 1.12E+03	10C 1.12E+03	15C 1.12E+03
20C 1.12E+04	25C 1.12E+04	30C 1.12E+04	35C 1.12E+04
40C 1.12E+04	45C 1.12E+04	50C 1.12E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS13SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298531	6240848	98m	1m	11m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 2.92E+02	5C 2.92E+02	10C 2.92E+02	15C 2.92E+02
20C 2.92E+03	25C 2.92E+03	30C 2.92E+03	35C 2.92E+03
40C 2.92E+03	45C 2.92E+03	50C 2.92E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS13SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298543	6240847	98m	1m	11m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 2.92E+02	5C 2.92E+02	10C 2.92E+02	15C 2.92E+02
20C 2.92E+03	25C 2.92E+03	30C 2.92E+03	35C 2.92E+03
40C 2.92E+03	45C 2.92E+03	50C 2.92E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS14SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298584	6240471	78m	1m	24m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 9.23E+02	5C 9.23E+02	10C 9.23E+02	15C 9.23E+02
20C 9.23E+03	25C 9.23E+03	30C 9.23E+03	35C 9.23E+03
40C 9.23E+03	45C 9.23E+03	50C 9.23E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS14SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298563	624057	78m	1m	9m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.59E+02	5C 1.59E+02	10C 1.59E+02	15C 1.59E+02
20C 1.59E+03	25C 1.59E+03	30C 1.59E+03	35C 1.59E+03
40C 1.59E+03	45C 1.59E+03	50C 1.59E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS15SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296875	6240828	77m	1m	14m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.35E+02	5C 5.35E+02	10C 5.35E+02	15C 5.35E+02
20C 5.35E+03	25C 5.35E+03	30C 5.35E+03	35C 5.35E+03
40C 5.35E+03	45C 5.35E+03	50C 5.35E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS15SB

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296902	6240821	81m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.83E+02	5C 5.83E+02	10C 5.83E+02	15C 5.83E+02
20C 5.83E+03	25C 5.83E+03	30C 5.83E+03	35C 5.83E+03
40C 5.83E+03	45C 5.83E+03	50C 5.83E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS16SA

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296700	6240922	81m	1m	13m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 4.86E+02	5C 4.86E+02	10C 4.86E+02	15C 4.86E+02
20C 4.86E+03	25C 4.86E+03	30C 4.86E+03	35C 4.86E+03
40C 4.86E+03	45C 4.86E+03	50C 4.86E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS17S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298407	6239431	87m	1m	1m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 4.86E+02	5C 4.86E+02	10C 4.86E+02	15C 4.86E+02
20C 4.86E+03	25C 4.86E+03	30C 4.86E+03	35C 4.86E+03
40C 4.86E+03	45C 4.86E+03	50C 4.86E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS17S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298433	6239417	87m	1m	13m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 4.86E+02	5C 4.86E+02	10C 4.86E+02	15C 4.86E+02
20C 4.86E+03	25C 4.86E+03	30C 4.86E+03	35C 4.86E+03
40C 4.86E+03	45C 4.86E+03	50C 4.86E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS17S3

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298459	6239405	87m	1m	13m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 4.86E+02	5C 4.86E+02	10C 4.86E+02	15C 4.86E+02
20C 4.86E+03	25C 4.86E+03	30C 4.86E+03	35C 4.86E+03
40C 4.86E+03	45C 4.86E+03	50C 4.86E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS17S4

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298484	6239390	87m	1m	13m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 4.86E+02	5C 4.86E+02	10C 4.86E+02	15C 4.86E+02
20C 4.86E+03	25C 4.86E+03	30C 4.86E+03	35C 4.86E+03
40C 4.86E+03	45C 4.86E+03	50C 4.86E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS18S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
298062	6239349	88m	1m	11m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 4.38E+02	5C 4.38E+02	10C 4.38E+02	15C 4.38E+02
20C 4.38E+03	25C 4.38E+03	30C 4.38E+03	35C 4.38E+03
40C 4.38E+03	45C 4.38E+03	50C 4.38E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS19S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296502	6239859	100m	1m	33m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.26E+03	5C 1.26E+03	10C 1.26E+03	15C 1.26E+03
20C 1.26E+04	25C 1.26E+04	30C 1.26E+04	35C 1.26E+04
40C 1.26E+04	45C 1.26E+04	50C 1.26E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS19S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296518	6239881	100m	1m	33m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.26E+03	5C 1.26E+03	10C 1.26E+03	15C 1.26E+03
20C 1.26E+04	25C 1.26E+04	30C 1.26E+04	35C 1.26E+04
40C 1.26E+04	45C 1.26E+04	50C 1.26E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS19S3

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
296533	6239900	100m	1m	33m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.26E+03	5C 1.26E+03	10C 1.26E+03	15C 1.25E+03
20C 1.26E+04	25C 1.26E+04	30C 1.26E+04	35C 1.26E+04
40C 1.26E+04	45C 1.26E+04	50C 1.26E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS20S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
299510	6244912	105m	1m	14m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.78E+02	5C 1.78E+02	10C 1.78E+02	15C 1.78E+02
20C 1.78E+03	25C 1.78E+03	30C 1.78E+03	35C 1.78E+03
40C 1.78E+03	45C 1.78E+03	50C 1.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS20S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
299520	6244912	105m	1m	14m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.78E+02	5C 1.78E+02	10C 1.78E+02	15C 1.78E+02
20C 1.78E+03	25C 1.78E+03	30C 1.78E+03	35C 1.78E+03
40C 1.78E+03	45C 1.78E+03	50C 1.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS20S3

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
299529	6244914	105m	1m	14m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.78E+02	5C 1.78E+02	10C 1.78E+02	15C 1.78E+02
20C 1.78E+03	25C 1.78E+03	30C 1.78E+03	35C 1.78E+03
40C 1.78E+03	45C 1.78E+03	50C 1.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS20S4

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
299538	6244913	105m	1m	14m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.78E+02	5C 1.78E+02	10C 1.78E+02	15C 1.78E+02
20C 1.78E+03	25C 1.78E+03	30C 1.78E+03	35C 1.78E+03
40C 1.78E+03	45C 1.78E+03	50C 1.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS20S5

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
299547	6244894	105m	1m	14m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.78E+02	5C 1.78E+02	10C 1.78E+02	15C 1.78E+02
20C 1.78E+03	25C 1.78E+03	30C 1.78E+03	35C 1.78E+03
40C 1.78E+03	45C 1.78E+03	50C 1.78E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS20S6

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
299532	6244881	105m	1m	13m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.62E+02	5C 1.62E+02	10C 1.62E+02	15C 1.62E+02
20C 1.62E+03	25C 1.62E+03	30C 1.62E+03	35C 1.62E+03
40C 1.62E+03	45C 1.62E+03	50C 1.62E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS21S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295740	6245746	68m	1m	34m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.75E+03	5C 1.75E+03	10C 1.75E+03	15C 1.75E+03
20C 1.75E+04	25C 1.75E+04	30C 1.75E+04	35C 1.75E+04
40C 1.75E+04	45C 1.75E+04	50C 1.75E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS21S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295758	6245761	68m	1m	34m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.31E+03	5C 1.31E+03	10C 1.31E+03	15C 1.31E+03
20C 1.31E+04	25C 1.31E+04	30C 1.31E+04	35C 1.31E+04
40C 1.31E+04	45C 1.31E+04	50C 1.31E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS21S3

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295783	6245766	68m	1m	34m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.31E+03	5C 1.31E+03	10C 1.31E+03	15C 1.31E+03
20C 1.31E+04	25C 1.31E+04	30C 1.31E+04	35C 1.31E+04
40C 1.31E+04	45C 1.31E+04	50C 1.31E+04	

No gravitational settling or scavenging.

VOLUME SOURCE: NS22S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295966	6245055	60m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.83E+02	5C 5.83E+02	10C 5.83E+02	15C 5.83E+02
20C 5.83E+03	25C 5.83E+03	30C 5.83E+03	35C 5.83E+03
40C 5.83E+03	45C 5.83E+03	50C 5.83E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS22S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295975	6245028	60m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.83E+02	5C 5.83E+02	10C 5.83E+02	15C 5.83E+02
20C 5.83E+03	25C 5.83E+03	30C 5.83E+03	35C 5.83E+03
40C 5.83E+03	45C 5.83E+03	50C 5.83E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS23S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295724	6244882	65m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.05E+02	5C 5.05E+02	10C 5.05E+02	15C 5.05E+02
20C 5.05E+03	25C 5.05E+03	30C 5.05E+03	35C 5.05E+03
40C 5.05E+03	45C 5.05E+03	50C 5.05E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS23S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295726	6244907	65m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.05E+02	5C 5.05E+02	10C 5.05E+02	15C 5.05E+02
20C 5.05E+03	25C 5.05E+03	30C 5.05E+03	35C 5.05E+03
40C 5.05E+03	45C 5.05E+03	50C 5.05E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS23S3

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295728	6244936	65m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.05E+02	5C 5.05E+02	10C 5.05E+02	15C 5.05E+02
20C 5.05E+03	25C 5.05E+03	30C 5.05E+03	35C 5.05E+03
40C 5.05E+03	45C 5.05E+03	50C 5.05E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS24S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. Spread
295970	6244817	60m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.05E+02	5C 5.05E+02	10C 5.05E+02	15C 5.05E+02
20C 5.05E+03	25C 5.05E+03	30C 5.05E+03	35C 5.05E+03
40C 5.05E+03	45C 5.05E+03	50C 5.05E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS24S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295972	6244842	60m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.05E+02	5C 5.05E+02	10C 5.05E+02	15C 5.05E+02
20C 5.05E+03	25C 5.05E+03	30C 5.05E+03	35C 5.05E+03
40C 5.05E+03	45C 5.05E+03	50C 5.05E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS24S3

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295978	6244864	60m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.05E+02	5C 5.05E+02	10C 5.05E+02	15C 5.05E+02
20C 5.05E+03	25C 5.05E+03	30C 5.05E+03	35C 5.05E+03
40C 5.05E+03	45C 5.05E+03	50C 5.05E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS24S4

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295983	6244892	60m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.05E+02	5C 5.05E+02	10C 5.05E+02	15C 5.05E+02
20C 5.05E+03	25C 5.05E+03	30C 5.05E+03	35C 5.05E+03
40C 5.05E+03	45C 5.05E+03	50C 5.05E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS25S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295338	6244262	75m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.83E+02	5C 5.83E+02	10C 5.83E+02	15C 5.83E+02
20C 5.83E+03	25C 5.83E+03	30C 5.83E+03	35C 5.83E+03
40C 5.83E+03	45C 5.83E+03	50C 5.83E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS25S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295342	6244289	75m	1m	15m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 5.83E+02	5C 5.83E+02	10C 5.83E+02	15C 5.83E+02
20C 5.83E+03	25C 5.83E+03	30C 5.83E+03	35C 5.83E+03
40C 5.83E+03	45C 5.83E+03	50C 5.83E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS26S1

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295000	6242692	78m	1m	23m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.75E+02	5C 8.75E+02	10C 8.75E+02	15C 8.75E+02
20C 8.75E+03	25C 8.75E+03	30C 8.75E+03	35C 8.75E+03
40C 8.75E+03	45C 8.75E+03	50C 8.75E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS26S2

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295023	6242686	78m	1m	23m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.75E+02	5C 8.75E+02	10C 8.75E+02	15C 8.75E+02
20C 8.75E+03	25C 8.75E+03	30C 8.75E+03	35C 8.75E+03
40C 8.75E+03	45C 8.75E+03	50C 8.75E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS26S3

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295047	6242685	78m	1m	23m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 8.75E+02	5C 8.75E+02	10C 8.75E+02	15C 8.75E+02
20C 8.75E+03	25C 8.75E+03	30C 8.75E+03	35C 8.75E+03
40C 8.75E+03	45C 8.75E+03	50C 8.75E+03	

No gravitational settling or scavenging.

VOLUME SOURCE: NS26S4

X(m)	Y(m)	Ground Elevation	Height	Hor. spread	Vert. spread
295072	6242687	78m	1m	28m	1m

Emission rates by temperature (5 deg C. categories) in OUV/second:

0C 1.07E+03	5C 1.07E+03	10C 1.07E+03	15C 1.07E+03
20C 1.07E+04	25C 1.07E+04	30C 1.07E+04	35C 1.07E+04
40C 1.07E+04	45C 1.07E+04	50C 1.07E+04	

No gravitational settling or scavenging.

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41278 Odour Source 1 to 26 - Naturally Ventilated Sheds

RECEPTOR LOCATIONS

The Cartesian receptor grid has the following x-values (or eastings):

294250.m 294500.m 294750.m 295000.m 295250.m 295500.m 295750.m
296000.m 296250.m 296500.m 296750.m 297000.m 297250.m 297500.m
297750.m 298000.m 298250.m 298500.m 298750.m 299000.m 299250.m
299500.m 299750.m 300000.m 300250.m 300500.m 300750.m 301000.m
301250.m

and these y-values (or northings):

6238500.m 6238750.m 6239000.m 6239250.m 6239500.m 6239750.m 6240000.m
6240250.m 6240500.m 6240750.m 6241000.m 6241250.m 6241500.m 6241750.m
6242000.m 6242250.m 6242500.m 6242750.m 6243000.m 6243250.m 6243500.m
6243750.m 6244000.m 6244250.m 6244500.m 6244750.m 6245000.m 6245250.m
6245500.m 6245750.m 6246000.m 6246250.m 6246500.m 6246750.m 6247000.m
6247250.m 6247500.m 6247750.m

METEOROLOGICAL DATA : DECCW Bringelly AWS Data BoM SydneyAP Clouds (SRPGT
M

1 Peak values for the 100 worst cases (in Odour_Units)
Averaging time = 1 hour

Rank	Value	Time Recorded hour,date	Coordinates (* denotes polar)
1	5.99E+02	24,22/02/08	(298000, 6242000, 0.0)
2	4.97E+02	23,05/02/07	(298000, 6242000, 0.0)
3	4.81E+02	22,26/10/08	(298000, 6242000, 0.0)
4	4.63E+02	24,21/02/07	(298000, 6242000, 0.0)
5	4.61E+02	24,06/02/07	(298000, 6242000, 0.0)
6	4.35E+02	02,03/03/07	(298000, 6242000, 0.0)
7	4.33E+02	22,06/02/07	(298000, 6242000, 0.0)
8	4.30E+02	01,23/02/07	(298000, 6242000, 0.0)
9	4.26E+02	22,02/03/07	(298000, 6242000, 0.0)
10	4.25E+02	24,22/03/07	(298000, 6242000, 0.0)
11	4.14E+02	23,04/01/07	(298000, 6242000, 0.0)
12	4.10E+02	01,17/03/07	(298000, 6242000, 0.0)
13	4.06E+02	03,23/03/07	(298000, 6242000, 0.0)
14	4.03E+02	22,14/03/08	(298000, 6242000, 0.0)
15	4.03E+02	01,19/03/07	(298000, 6242000, 0.0)
16	4.01E+02	21,15/03/07	(298000, 6242000, 0.0)
17	3.93E+02	23,16/03/07	(298000, 6242000, 0.0)
18	3.91E+02	11,04/04/07	(295750, 6245750, 0.0)
19	3.90E+02	04,20/02/07	(298000, 6242000, 0.0)
20	3.86E+02	24,23/03/07	(298000, 6242000, 0.0)
21	3.83E+02	24,16/03/07	(298000, 6242000, 0.0)
22	3.82E+02	04,03/03/07	(298000, 6242000, 0.0)
23	3.80E+02	21,11/10/07	(295750, 6245750, 0.0)
24	3.78E+02	21,02/10/08	(295750, 6245750, 0.0)
25	3.78E+02	21,20/02/08	(298000, 6242000, 0.0)
26	3.78E+02	23,22/03/07	(298000, 6242000, 0.0)
27	3.75E+02	11,25/10/08	(295750, 6245750, 0.0)
28	3.65E+02	04,19/02/07	(298000, 6242000, 0.0)
29	3.65E+02	24,11/03/08	(298000, 6242000, 0.0)
30	3.57E+02	02,19/03/07	(298000, 6242000, 0.0)
31	3.56E+02	23,25/02/08	(298000, 6242000, 0.0)
32	3.56E+02	04,26/12/08	(298000, 6242000, 0.0)
33	3.54E+02	20,19/03/07	(298000, 6242000, 0.0)
34	3.52E+02	02,21/03/07	(298000, 6242000, 0.0)
35	3.50E+02	21,02/03/07	(298000, 6242000, 0.0)
36	3.50E+02	04,17/03/07	(298000, 6242000, 0.0)
37	3.48E+02	21,18/03/08	(298000, 6242000, 0.0)
38	3.46E+02	22,04/12/07	(298000, 6242000, 0.0)
39	3.46E+02	02,05/03/07	(298000, 6242000, 0.0)
40	3.45E+02	21,03/01/07	(298000, 6242000, 0.0)
41	3.42E+02	01,24/03/07	(298000, 6242000, 0.0)
42	3.40E+02	24,25/02/08	(298000, 6242000, 0.0)

43	3.40E+02	07,21/03/07	(295750, 6245750, 0.0)
44	3.35E+02	01,06/03/08	(298000, 6242000, 0.0)
45	3.35E+02	02,06/03/08	(298000, 6242000, 0.0)
46	3.34E+02	03,05/03/07	(295750, 6245750, 0.0)
47	3.34E+02	01,26/02/08	(298000, 6242000, 0.0)
48	3.32E+02	07,24/01/07	(295750, 6245750, 0.0)
49	3.30E+02	02,24/03/07	(298000, 6242000, 0.0)
50	3.29E+02	03,22/02/07	(298000, 6242000, 0.0)
51	3.26E+02	07,05/03/07	(295750, 6245750, 0.0)
52	3.24E+02	09,02/10/08	(295750, 6245750, 0.0)
53	3.22E+02	04,21/03/07	(298000, 6242000, 0.0)
54	3.21E+02	03,21/03/07	(298000, 6242000, 0.0)
55	3.21E+02	23,07/01/07	(298000, 6242000, 0.0)
56	3.19E+02	10,03/03/08	(295750, 6245750, 0.0)
57	3.19E+02	02,23/03/07	(298000, 6242000, 0.0)
58	3.18E+02	01,10/01/07	(298000, 6242000, 0.0)
59	3.18E+02	03,13/02/08	(298000, 6242000, 0.0)
60	3.18E+02	12,10/03/07	(295750, 6245750, 0.0)
61	3.16E+02	04,28/02/07	(298000, 6242000, 0.0)
62	3.15E+02	23,05/03/08	(298000, 6242000, 0.0)
63	3.15E+02	03,04/03/07	(298000, 6242000, 0.0)
64	3.11E+02	24,05/03/08	(298000, 6242000, 0.0)
65	3.10E+02	05,23/03/07	(298000, 6242000, 0.0)
66	3.08E+02	20,18/04/07	(298000, 6242000, 0.0)
67	3.07E+02	24,22/01/07	(298000, 6242000, 0.0)
68	3.06E+02	23,09/12/08	(298000, 6242000, 0.0)
69	3.05E+02	04,26/01/07	(298000, 6242000, 0.0)
70	3.05E+02	19,08/03/07	(298000, 6242000, 0.0)
71	3.04E+02	01,12/03/08	(298000, 6242000, 0.0)
72	3.04E+02	02,12/03/08	(298000, 6242000, 0.0)
73	3.02E+02	22,22/03/07	(298000, 6242000, 0.0)
74	3.00E+02	23,21/03/07	(298000, 6242000, 0.0)
75	2.99E+02	05,01/03/07	(298000, 6242000, 0.0)
76	2.99E+02	05,20/02/07	(298000, 6242000, 0.0)
77	2.99E+02	23,16/02/07	(298000, 6242000, 0.0)
78	2.99E+02	03,03/03/07	(298000, 6242000, 0.0)
79	2.96E+02	22,16/03/07	(298000, 6242000, 0.0)
80	2.95E+02	23,15/02/07	(298000, 6242000, 0.0)
81	2.94E+02	04,13/03/08	(298000, 6242000, 0.0)
82	2.93E+02	23,30/01/07	(298000, 6242000, 0.0)
83	2.90E+02	23,22/02/08	(298000, 6242000, 0.0)
84	2.90E+02	21,30/01/07	(298000, 6242000, 0.0)
85	2.88E+02	05,03/03/07	(298000, 6242000, 0.0)
86	2.87E+02	22,13/02/07	(298000, 6242000, 0.0)
87	2.87E+02	16,28/05/07	(295750, 6245750, 0.0)
88	2.87E+02	01,27/01/07	(298000, 6242000, 0.0)
89	2.86E+02	03,19/03/07	(298000, 6242000, 0.0)
90	2.84E+02	04,20/03/07	(298000, 6242000, 0.0)
91	2.84E+02	21,01/12/08	(298000, 6242000, 0.0)
92	2.83E+02	24,03/03/07	(298000, 6242000, 0.0)
93	2.83E+02	01,07/01/07	(298000, 6242000, 0.0)
94	2.83E+02	22,30/12/08	(298000, 6242000, 0.0)
95	2.82E+02	09,03/10/08	(295750, 6245750, 0.0)
96	2.82E+02	21,22/03/07	(298000, 6242000, 0.0)
97	2.81E+02	21,03/04/07	(298000, 6242000, 0.0)
98	2.81E+02	19,16/04/07	(298000, 6242000, 0.0)
99	2.81E+02	02,04/03/07	(298000, 6242000, 0.0)
100	2.81E+02	24,22/10/07	(298000, 6242000, 0.0)