

# **Elf Farm Supplies Pty Ltd**

### Mushroom Substrate Plant – Modification to Approved Expansion

**Odour Impact Assessment** 

Mulgrave, NSW

Second Amended Final Appendices



### **Elf Farm Supplies Pty Ltd**

Mushroom Substrate Plant – Modification to Approved Expansion

### **APPENDIX A:**

ODOUR CONCENTRATION LABORATORY TESTING RESULTS



The measurement was commissioned by:

Aust. Technology Park Phone: Locomotive Workshop Bay 4 Suite 3011 2 Locomotive Street Eveleigh NSW 2015 ABN: 53 091 165 061

+61 2 9209 4420 Facsimile: +61 2 9209 4421 Email: info@odourunit.com.au Internet: www.odourunit.com.au



Accreditation Number: 14974

### **Odour Concentration Measurement Results**

Organisation		Telephone Facsimile	+61 2 4577 5000						
Sampling Site	e Mulgrave, NSW	Email	- manager@elffarm.com.au						
Sampling Metho	d Drum & Pump	Sampling Team	TOU (J. Schulz, M. Assal)						
Order details:									
Order requested by Date of orde		Order accepted by TOU Project #	T.Schulz N1952R						
Order numbe	-	Project Manager	M. Assal						
Signed by	y Refer to correspondence	Testing operator	A. Schulz						
Investigated Item	Odour concentration in odour un measurements, of an odour sample								
Identification The odour sample bags were labelled individually. Each label recorded the testing laboratory, sample number, sampling location (or Identification), sampling date and time, dilution ratio (if dilution was used) and whether further chemical analysis was required.									
Method The odour concentration measurements were performed using dynamic olfactometry according to the Australian Standard 'Determination of Odour Concentration by Dynamic Olfactometry AS/NZS4323.3:2001. NATA accredited for compliance with ISO/IEC 17025. Any deviation from the Australian standard is recorded in the 'Comments' section of this report.									
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is a	have been pre-diluted.	The machine is not calibrated						
Environment	The measurements were perform temperature is maintained between		pur-conditioned room. The room						
Measuring Dates	The date of each measurement is s	pecified with the results.							
Instrument Used	The olfactometer used during this te ODORMAT SERIES V05	esting session was:							
Instrumental Precision	The precision of this instrument (e be $r \le 0.477$ in accordance with the ODORMAT SERIES V05: $r = 0.263$	Australian Standard AS/							
Instrumental Accuracy	The accuracy of this instrument fo with the Australian Standard AS/NZ	S4323.3:2001.							
	ODORMAT SERIES V05: A = 0.184		Compliance – Yes						
Lower Detection Limit (LDL)	The LDL for the olfactometer has setting)	been determined to be 16 ou (4 times the lowest dilution							
Traceability	The measurements have been performed using standards for which the traceability to the national standard has been demonstrated. The assessors are individually selected to comply with fixed criteria and are monitored in time to keep within the limits of the standard. The results from the assessors are traceable to primary standards of n-butanol in nitrogen.								

Date: Thursday, 21 August 2014

Panel Roster Number: SYD20140813 069

4

Authorised Signatory

J. Schulz NSW Laboratory Coordinator

A. Schulz





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20140813\_069

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
2-1 Levelling (Tunnel 1)	SC14469	12/08/2014 1106hrs	13/08/2014 1128hrs	4	8	-	-	4,870	4,870	N/A
8-1 Tunnel Venting (Tunnel 17)	SC14471	12/08/2014 1119hrs	13/08/2014 1232hrs	4	8	-	-	2,900	2,900	N/A
2-2 Levelling (Tunnel 3)	SC14472	12/08/2014 1113hrs	13/08/2014 1442hrs	4	8	-	-	5,310	5,310	N/A

Note: The following are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd:

- 1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).
- 2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### Odour Panel Calibration Results

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20140813_069	50,000	$20 \le \chi \le 80$	1,024	49	Yes

- Comments None.
- Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.
- Note This report shall not be reproduced, except in full, without written approval of The Odour Unit Pty Ltd. Any attachments to this Report are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd.



The measurement was commissioned by:

Aust. Technology Park Phone: Eveleigh NSW 2015 ABN: 53 091 165 061

+61 2 9209 4420 Locomotive Workshop Facsimile: +61 2 9209 4421 Bay 4 Suite 3011 Email: info@odourunit.com.au 2 Locomotive Street Internet: www.odourunit.com.au



Accreditation Number: 14974

### **Odour Concentration Measurement Results**

Organisation		Telephone	+61 2 4577 5000						
Contac Sampling Site		Facsimile Email	- manager@elffarm.com.au						
Sampling Method		Sampling Team	TOU (J. Schulz, M. Assal)						
Order details:									
Order requested by		Order accepted by	T.Schulz						
Date of orde Order numbe	-	TOU Project # Project Manager	N1952R M. Assal						
Signed by		Testing operator	A. Schulz						
Investigated Item	Odour concentration in odour u measurements, of an odour sample								
Identification The odour sample bags were labelled individually. Each label recorded the testing laboratory, sample number, sampling location (or Identification), sampling date and time, dilution ratio (if dilution was used) and whether further chemical analysis was required.									
Method The odour concentration measurements were performed using dynamic olfactometry according to the Australian Standard 'Determination of Odour Concentration by Dynamic Olfactometry AS/NZS4323.3:2001. NATA accredited for compliance with ISO/IEC 17025. Any deviation from the Australian standard is recorded in the 'Comments' section of this report.									
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is a	have been pre-diluted.	The machine is not calibrated						
Environment	The measurements were perform temperature is maintained between		ur-conditioned room. The room						
Measuring Dates	The date of each measurement is s	pecified with the results.							
Instrument Used	The olfactometer used during this to ODORMAT SERIES V05	esting session was:							
Instrumental Precision	The precision of this instrument (e be $r \le 0.477$ in accordance with the ODORMAT SERIES V05: $r = 0.263$	Australian Standard AS/							
Instrumental Accuracy	The accuracy of this instrument fo with the Australian Standard AS/NZ	S4323.3:2001.							
	ODORMAT SERIES V05: A = 0.184	· · /	Compliance – Yes						
Lower Detection Limit (LDL)	The LDL for the olfactometer has setting)	been determined to be 1	6 ou (4 times the lowest dilution						
Traceability	The measurements have been performed using standards for which the traceability to the national standard has been demonstrated. The assessors are individually selected to comply with fixed criteria and are monitored in time to keep within the limits of the standard. The results from the assessors are traceable to primary standards of n-butanol in nitrogen.								

Date: Thursday, 21 August 2014

J. Schulz NSW Laboratory Coordinator

Panel Roster Number: SYD20140814\_070

A. Schulz Authorised Signatory





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20140814\_070

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
7A-1 Spawn Run 1 (Tunnel 4)	SC14477	13/08/2014 0919hrs	14/08/2014 1040hrs	4	8	-	-	118	118	N/A
4-2 Pasteurisation (Tunnel 3)	SC14478	13/08/2014 0933hrs	14/08/2014 1110hrs	4	8	-	-	2,660	2,660	N/A
4-1 Pasteurisation (Tunnel 2)	SC14479	13/08/2014 0941hrs	14/08/2014 0941hrs	4	8	-	-	2,230	2,230	N/A
3-2 Warm-up Pasteurisation (Tunnel 10)	SC14480	13/08/2014 0954hrs	14/08/2014 1218hrs	4	8	-	-	2,440	2,440	N/A
3-1 Warm-up Pasteurisation (Tunnel 1)	SC14481	13/08/2014 1000hrs	14/08/2014 1248hrs	4	8	-	-	2,350	2,350	N/A

Note: The following are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd:

1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).

2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### Odour Panel Calibration Results

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20140814_070	50,000	$20 \le \chi \le 80$	1,024	49	Yes

- Comments None.
- Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.
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# THE ODOUR UNIT LTD



The measurement was commissioned by:

Aust. Technology Park<br/>Locomotive Workshop<br/>Bay 4 Suite 3011Phone:<br/>Facsimi<br/>Email: i2 Locomotive Street<br/>Eveleigh NSW 2015Internet<br/>ABN: 53

Phone: +61 2 9209 4420 Facsimile: +61 2 9209 4421 Email: info@odourunit.com.au Internet: www.odourunit.com.au ABN: 53 091 165 061



Accreditation Number: 14974

### **Odour Concentration Measurement Results**

Organisatio Contac	t Neil Cockerell	Telephone Facsimile	+61 2 4577 5000 -						
Sampling Sit Sampling Metho		Email Sampling Team	manager@elffarm.com.au TOU (J. Schulz, M. Assal)						
Order details:									
Order requested b Date of orde Order numbe Signed b	July 2014 Refer to correspondence	Order accepted by TOU Project # Project Manager Testing operator	T.Schulz N1952R M. Assal A. Schulz						
Investigated Item	Odour concentration in odour un measurements, of an odour sample								
Identification The odour sample bags were labelled individually. Each label recorded the testing laboratory, sample number, sampling location (or Identification), sampling date and time, dilution ratio (if dilution was used) and whether further chemical analysis was required.									
Method The odour concentration measurements were performed using dynamic olfactometry according to the Australian Standard 'Determination of Odour Concentration by Dynamic Olfactometry AS/NZS4323.3:2001. NATA accredited for compliance with ISO/IEC 17025. Any deviation from the Australian standard is recorded in the 'Comments' section of this report.									
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is a	have been pre-diluted.	The machine is not calibrated						
Environment	The measurements were perform temperature is maintained between		ur-conditioned room. The room						
Measuring Dates	The date of each measurement is s	pecified with the results.							
Instrument Used	The olfactometer used during this to ODORMAT SERIES V05	esting session was:							
Instrumental Precision	The precision of this instrument (e be $r \le 0.477$ in accordance with the ODORMAT SERIES V05: $r = 0.263$	Australian Standard AS/							
Instrumental Accuracy	The accuracy of this instrument fo with the Australian Standard AS/NZ ODORMAT SERIES V05: $A = 0.184$	S4323.3:2001.	nust be $A \le 0.217$ in accordance Compliance – Yes						
Lower Detection Limit (LDL)	The LDL for the olfactometer has setting)	been determined to be 1	6 ou (4 times the lowest dilution						
Traceability	The measurements have been performed using standards for which the traceability to the national standard has been demonstrated. The assessors are individually selected to comply with fixed criteria and are monitored in time to keep within the limits of the standard. The results from the assessors are traceable to primary standards of n-butanol in nitrogen.								

Date: Friday, 22 August 2014

Panel Roster Number: SYD20140815\_071

A. Schulz

Authorised Signatory

J. Schulz NSW Laboratory Coordinator





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20140815\_071

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
5-1-1 Conditioning #1 (Tunnel 1)	SC14482	14/08/2014 1040hrs	15/08/2014 1033hrs	4	8	-	-	512	512	N/A
5-2-1 Conditioning #1 (Tunnel 3)	SC14483	14/08/2014 1013hrs	15/08/2014 1108hrs	4	8	-	-	431	431	N/A
7B-1 Spawn run 2 (Tunnel 8)	SC14484	14/08/2014 0950hrs	15/08/2014 1144hrs	4	8	-	-	152	152	N/A
5-1-2 Conditioning #2 (Tunnel 1)	SC14485	14/08/2014 0920hrs	15/08/2014 1244hrs	4	8	-	-	362	362	N/A
5-2-2 Conditioning #2 (Tunnel 3)	SC14486	14/08/2014 0934hrs	15/08/2014 1311hrs	4	8	-	-	304	304	N/A

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1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).

2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### Odour Panel Calibration Results

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20140815_071	50,000	$20 \le \chi \le 80$	1,024	49	Yes

- Comments None.
- Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.
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Phone: +61 2 9209 4420 Facsimile: +61 2 9209 4421 Email: <u>info@odourunit.com.au</u> Internet: <u>www.odourunit.com.au</u> ABN: 53 091 165 061



Accreditation Number: 14974

### **Odour Concentration Measurement Results**

Organisation Contac Sampling Site Sampling Method	t Neil Cockerell Mulgrave, NSW	Telephone Facsimile Email Sampling Team	+61 2 4577 5000 - <u>manager@elffarm.com.au</u> TOU (J. Schulz, M. Assal)						
Order details: Order requested by	V Neil Cockerell	Order accepted by	T.Schulz						
Date of order Order number Signed by	r July 2014 r Refer to correspondence	TOU Project # Project Manager Testing operator	N1952R M. Assal A. Schulz						
Investigated Item	Odour concentration in odour un measurements, of an odour sample								
Identification The odour sample bags were labelled individually. Each label recorded the testing laboratory, sample number, sampling location (or Identification), sampling date and time, dilution ratio (if dilution was used) and whether further chemical analysis was required.									
Method The odour concentration measurements were performed using dynamic olfactometry according to the Australian Standard 'Determination of Odour Concentration by Dynamic Olfactometry AS/NZS4323.3:2001. NATA accredited for compliance with ISO/IEC 17025. Any deviation from the Australian standard is recorded in the 'Comments' section of this report.									
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is s	have been pre-diluted.	The machine is not calibrated						
Environment	The measurements were perform temperature is maintained between		pur-conditioned room. The room						
Measuring Dates	The date of each measurement is s	pecified with the results.							
Instrument Used	The olfactometer used during this te ODORMAT SERIES V05	esting session was:							
Instrumental Precision	The precision of this instrument (e be $r \le 0.477$ in accordance with the ODORMAT SERIES V05: $r = 0.263$	Australian Standard AS/							
Instrumental Accuracy	The accuracy of this instrument fo with the Australian Standard AS/NZ ODORMAT SERIES V05: $A = 0.184$	S4323.3:2001.	nust be $A \le 0.217$ in accordance Compliance – Yes						
Lower Detection Limit (LDL)	The LDL for the olfactometer has I setting)	been determined to be 1	16 ou (4 times the lowest dilution						
Traceability	The measurements have been per national standard has been demons with fixed criteria and are monitore results from the assessors are trace	strated. The assessors a ed in time to keep within	re individually selected to comply n the limits of the standard. The						

Date: Friday, 22 August 2014

Panel Roster Number: SYD20140817\_072

A. Schulz

Authorised Signatory

J. Schulz NSW Laboratory Coordinator





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20140817\_072

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
5-1-3 Conditioning #3 (Tunnel 1)	SC14487	16/08/2014 0852hrs	17/08/2014 1251hrs	4	8	-	-	99	99	N/A
5-2-3 Conditioning #3 (Tunnel 3)	SC14488	16/08/2014 0910hrs	17/08/2014 1317hrs	4	8	-	-	83	83	N/A
6-2 Cooldown Spawn (Tunnel 3)	SC14489	17/08/2014 0903hrs	17/08/2014 1343hrs	4	8	-	-	41	41	N/A
6-1 Cooldown Spawn (Tunnel 1)	SC14490	17/08/2014 0915hrs	17/08/2014 1413hrs	4	8	-	-	45	45	N/A

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1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).

2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### Odour Panel Calibration Results

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20140815_071	50,000	$20 \le \chi \le 80$	1,024	49	Yes

- Comments None.
- Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.
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Eveleigh NSW 2015 ABN: 53 091 165 061

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Accreditation Number: 14974

### **Odour Concentration Measurement Results**

	as commissioned by:	<b>-</b> · ·							
Organisation		Telephone	+61 2 4577 5000						
Contac		Facsimile	-						
Sampling Site		Email	manager@elffarm.com.au						
Sampling Method	d AS4323.3/4	Sampling Team	TOU (M. Assal)						
Order details:									
Order requested by	V Neil Cockerell	Order accepted by	T.Schulz						
Date of orde		TOU Project #	N1952R						
Order numbe	r Refer to correspondence	Project Manager	M. Assal						
Signed by	Refer to correspondence	Testing operator	D. Hepple						
Investigated Item Odour concentration in odour units 'ou', determined by sensory odour concentration measurements, of an odour sample supplied in a sampling bag.									
Identification	The odour sample bags were labell sample number, sampling location (if dilution was used) and whether fu	(or Identification), same	oling date and time, dilution ratio						
Method	The odour concentration measured according to the Australian Stand Olfactometry AS/NZS4323.3:2001. Any deviation from the Australian report.	ard 'Determination of C NATA accredited for o	Odour Concentration by Dynamic compliance with ISO/IEC 17025.						
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is a	I have been pre-diluted.	The machine is not calibrated						
Environment	The measurements were perform temperature is maintained between		pur-conditioned room. The room						
Measuring Dates	The date of each measurement is s	pecified with the results.							
Instrument Used	The olfactometer used during this te ODORMAT SERIES V05	esting session was:							
Instrumental Precision	The precision of this instrument (e be $r \le 0.477$ in accordance with the ODORMAT SERIES V05: $r = 0.263$	Australian Standard AS	<i>, , , , , , , , , , , , , , , , , , , </i>						
Instrumental Accuracy	The accuracy of this instrument fo with the Australian Standard AS/NZ	S4323.3:2001.							
	ODORMAT SERIES V05: A = 0.184	43 (April 2014) C	Compliance – Yes						
Lower Detection Limit (LDL)	The LDL for the olfactometer has setting)	been determined to be 1	16 ou (4 times the lowest dilution						
Traceability	The measurements have been per national standard has been demons with fixed criteria and are monitore results from the assessors are trace	strated. The assessors a ed in time to keep within	re individually selected to comply n the limits of the standard. The						

Date: Tuesday, 28 October 2014

Panel Roster Number: SYD20141028 092

D. A. kul.

J. Schulz NSW Laboratory Coordinator

D. Hepple Authorised Signatory Revision: 8

Revision Date: 18.07.2008

Approved By: TJS





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20141028-092

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)

Note: The following are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd:

- 1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).
- 2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20141028\_092

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
#9 – Bale Wetting Bed Area (Monday), Aerating	SC14648	27/10/2014 1402 hrs	28/10/2014 1419hrs	4	8	-	-	42,500	42,500	25.3
#10 – Bale Wetting Bed Area (Monday), Non- aerating	SC14649	27/10/2014 1443 hrs	28/10/2014 1452 hrs	4	8	-	-	39,000	39,000	23.9

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- 2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### Odour Panel Calibration Results

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20141028_092	50,000	$20 \le \chi \le 80$	1,024	49	Yes

Comments None.

Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.

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The measurement was commissioned by:

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Accreditation Number: 14974

### **Odour Concentration Measurement Results**

	as commissioned by:						
Organisatior		Telephone	+61 2 4577 5000				
Contac		Facsimile	-				
Sampling Site	e Mulgrave, NSW	Email	manager@elffarm.com.au				
Sampling Method	d AS4323.3/4	Sampling Team	TOU (M. Assal)				
Order deteiler							
Order details:		Order eccepted by	T. Sobulz				
Order requested by		Order accepted by TOU Project #	T.Schulz N1952R				
Date of orde Order numbe		Project Manager	M. Assal				
Signed by		Testing operator	D. Hepple				
Oigned by	V Refer to correspondence	resting operator	D. heppie				
Investigated Item	Odour concentration in odour u measurements, of an odour sample						
Identification	The odour sample bags were labell sample number, sampling location (if dilution was used) and whether f	(or Identification), same	oling date and time, dilution ratio				
Method	The odour concentration measurements were performed using dynamic olfactometry according to the Australian Standard 'Determination of Odour Concentration by Dynamic Olfactometry AS/NZS4323.3:2001. NATA accredited for compliance with ISO/IEC 17025. Any deviation from the Australian standard is recorded in the 'Comments' section of this report.						
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is a	I have been pre-diluted.	The machine is not calibrated				
Environment	The measurements were perform temperature is maintained between		pur-conditioned room. The room				
Measuring Dates	The date of each measurement is s	pecified with the results.					
Instrument Used	The olfactometer used during this to ODORMAT SERIES V05	esting session was:					
Instrumental Precision	The precision of this instrument (e be $r \le 0.477$ in accordance with the ODORMAT SERIES V05: $r = 0.263$	Australian Standard AS					
Instrumental Accuracy	The accuracy of this instrument for with the Australian Standard AS/NZ	S4323.3:2001.					
	ODORMAT SERIES V05: A = 0.184	43 (April 2014) (	Compliance – Yes				
Lower Detection Limit (LDL)	The LDL for the olfactometer has setting)	been determined to be 1	16 ou (4 times the lowest dilution				
Traceability	The measurements have been per national standard has been demon- with fixed criteria and are monitor results from the assessors are trace	strated. The assessors a ed in time to keep withi	re individually selected to comply n the limits of the standard. The				

Date: Wednesday, 29 October 2014

Panel Roster Number: SYD20141029 093

D. A. kul.

J. Schulz

NSW Laboratory Coordinator The Odour Unit Pty Ltd ABN 53 091 165 061 Form 06 - Odour Concentration Results Sheet

D. Hepple Authorised Signatory Revision: 8





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20141029\_093

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
#15 – Bale Wetting Area (Tuesday), Aerating, Saturated	SC14654	28/10/2014 1022 hrs	29/10/2014 1019 hrs	4	8	-	-	60,100	60,100	32.7
#16 – Bale Wetting Area (Tuesday), Non-aerating, Saturated	SC14655	28/10/2014 1058 hrs	29/10/2014 1046 hrs	4	8	-	-	77,900	77,900	39.9

Note: The following are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd:

- 1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).
- 2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20141029\_093

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)

Note: The following are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd:

- 1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).
- 2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### **Odour Panel Calibration Results**

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20141029_093	50,000	$20 \le \chi \le 80$	861	58	Yes
Comments						
Disclaimer Partie	a other than TOLL reasons	vible for collecting adour	samples hereby certify that	thay have voluntarily fur	aichad thaca adaur campl	an appropriately collected

- Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.
- Note This report shall not be reproduced, except in full, without written approval of The Odour Unit Pty Ltd. Any attachments to this Report are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd.



The measurement was commissioned by:

Aust. Technology Park Phone:

+61 2 9209 4420 Locomotive Workshop Facsimile: +61 2 9209 4421 Bay 4 Suite 3011 Email: info@odourunit.com.au 2 Locomotive Street Internet: www.odourunit.com.au Eveleigh NSW 2015 ABN: 53 091 165 061



Accreditation Number: 14974

### **Odour Concentration Measurement Results**

	as commissioned by:								
Organisation		Telephone	+61 2 4577 5000						
Contac		Facsimile	-						
Sampling Site		Email	manager@elffarm.com.au						
Sampling Method	d AS4323.3/4	Sampling Team	TOU (M. Assal)						
Order details:			<b>TO</b>						
Order requested by		Order accepted by	T.Schulz						
Date of orde Order numbe		TOU Project #	N1952R M. Assal						
Signed by		Project Manager Testing operator	D. Hepple						
Signed by	Kelel to correspondence	resting operator	D. hepple						
Investigated Item Odour concentration in odour units 'ou', determined by sensory odour concentration measurements, of an odour sample supplied in a sampling bag.									
Identification	The odour sample bags were labell sample number, sampling location (if dilution was used) and whether f	(or Identification), sam	oling date and time, dilution ratio						
Method	The odour concentration measurements were performed using dynamic olfactometry according to the Australian Standard 'Determination of Odour Concentration by Dynamic Olfactometry AS/NZS4323.3:2001. NATA accredited for compliance with ISO/IEC 17025. Any deviation from the Australian standard is recorded in the 'Comments' section of this report.								
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is a	I have been pre-diluted.	The machine is not calibrated						
Environment	The measurements were perform temperature is maintained between		pur-conditioned room. The room						
Measuring Dates	The date of each measurement is s	pecified with the results.							
Instrument Used	The olfactometer used during this to ODORMAT SERIES V05	esting session was:							
Instrumental Precision	The precision of this instrument (e be $r \le 0.477$ in accordance with the ODORMAT SERIES V05: $r = 0.263$	Australian Standard AS							
Instrumental Accuracy	The accuracy of this instrument for with the Australian Standard AS/NZ	2S4323.3:2001.							
	ODORMAT SERIES V05: $A = 0.184$	45 (April 2014) (	Compliance – Yes						
Lower Detection Limit (LDL)	The LDL for the olfactometer has setting)	been determined to be 1	16 ou (4 times the lowest dilution						
Traceability	The measurements have been per national standard has been demon- with fixed criteria and are monitor results from the assessors are trace	strated. The assessors a ed in time to keep withi	re individually selected to comply n the limits of the standard. The						

Date: Thursday, 30 October 2014

J. Schulz NSW Laboratory Coordinator The Odour Unit Pty Ltd

Panel Roster Number: SYD20141030 094

D. A. kul.

D. Hepple Authorised Signatory Revision: 8





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20141030\_094

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
#24 - Stable Bedding Area, Non- aerating	SC14665	29/10/2014 0830 hrs	30/10/2014 1015 hrs	4	8	-	-	11,600	11,600	5.28
#25 - Broken Wetted Bales, Non- aerating	SC14666	29/10/2014 0858 hrs	30/10/2014 1043 hrs	4	8	-	-	13,800	13,800	9.31
#26 - Stable Bedding Area, Aerating	SC14667	29/10/2014 0938 hrs	30/10/2014 1108 hrs	4	8	-	-	16,400	16,400	6.33
#27 - Broken Wetted Bales, Aerating	SC14668	29/10/2014 1008 hrs	30/10/2014 1134 hrs	4	8	-	-	6,320	6,320	3.56
#28 - Freshly Made Brew Mix	SC14669	29/10/2014 1102 hrs	30/10/2014 1157 hrs	4	8	-	-	17,900	17,900	11.2
#29 –Water Recycle Pit (Wed), Aeration Offline	SC14670	29/10/2014 1115 hrs	30/10/2014 1257 hrs	4	8	-	-	156,000	156,000	98.8

Note: The following are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd:

1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).

2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples.





Accreditation Number: 14974

#### Odour Panel Calibration Results

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20141030_094	50,000	$20 \le \chi \le 80$	861	58	Yes
Comments						

Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.

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The measurement was commissioned by:

Aust. Technology Park Phone: +61 2 9209 4420 Locomotive Workshop Facsimile: +61 2 9209 4421 Bay 4 Suite 3011 Email: info@odourunit.com.au 2 Locomotive Street Internet: www.odourunit.com.au Eveleigh NSW 2015 ABN: 53 091 165 061



Accreditation Number: 14974

### **Odour Concentration Measurement Results**

	as commissioned by:						
Organisation		Telephone	+61 2 4577 5000				
Contac		Facsimile	-				
Sampling Site		Email	manager@elffarm.com.au				
Sampling Method	d AS4323.3/4	Sampling Team	TOU (M. Assal)				
Onden deteiler							
Order details: Order requested by	V Neil Cockerell	Order accepted by	T.Schulz				
Date of orde		Order accepted by TOU Project #	N1952R				
Order numbe		Project Manager	M. Assal				
Signed by	•	Testing operator	D. Hepple				
Investigated Item	Odour concentration in odour u measurements, of an odour sample						
Identification	The odour sample bags were labell sample number, sampling location (if dilution was used) and whether f	(or Identification), sam	oling date and time, dilution ratio				
Method	The odour concentration measurements were performed using dynamic olfactometry according to the Australian Standard 'Determination of Odour Concentration by Dynamic Olfactometry AS/NZS4323.3:2001. NATA accredited for compliance with ISO/IEC 17025. Any deviation from the Australian standard is recorded in the 'Comments' section of this report.						
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is a	I have been pre-diluted.	The machine is not calibrated				
Environment	The measurements were perform temperature is maintained between		pur-conditioned room. The room				
Measuring Dates	The date of each measurement is s	pecified with the results.					
Instrument Used	The olfactometer used during this to ODORMAT SERIES V05	esting session was:					
Instrumental Precision	The precision of this instrument (e be $r \le 0.477$ in accordance with the ODORMAT SERIES V05: $r = 0.263$	Australian Standard AS					
Instrumental Accuracy	The accuracy of this instrument for with the Australian Standard AS/NZ	2S4323.3:2001.					
	ODORMAT SERIES V05: A = 0.18	43 (April 2014) C	Compliance – Yes				
Lower Detection Limit (LDL)	The LDL for the olfactometer has setting)	been determined to be 1	16 ou (4 times the lowest dilution				
Traceability	The measurements have been penational standard has been demon with fixed criteria and are monitor results from the assessors are trace	strated. The assessors a ed in time to keep withi	re individually selected to comply n the limits of the standard. The				

Date: Friday, 31 October 2014

Panel Roster Number: SYD20141031\_095

AUL.

D. Hepple Authorised Signatory

1	
0	
J. Schulz	

NSW Laboratory Coordinator The Odour Unit Pty Ltd ABN 53 091 165 061 Form 06 - Odour Concentration Results Sheet

Revision: 8 Revision Date: 18.07.2008 Approved By: TJS





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20141031\_095

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
#30 – Chicken Manure, Composite of Odd and Even	SC14672	30/10/2014 0826 hrs	31/10/2014 1020 hrs	4	8	-	-	7,510	7,510	5.28
#37 – Stormwater		04/40/0044	0440/0044							
Overflow Retention Dam	SC14679	31/10/2014 1210 hrs	3110/2014 1413 hrs	4	8	-	-	11,600	11,600	7.48

Note: The following are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd:

1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).

2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples





Accreditation Number: 14974

#### Odour Panel Calibration Results

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20141031_095	50,000	$20 \le \chi \le 80$	1,024	49	Yes

Comments None.

Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.

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The measurement was commissioned by:

Aust. Technology Park Phone:

+61 2 9209 4420 Locomotive Workshop Facsimile: +61 2 9209 4421 Bay 4 Suite 3011 Email: info@odourunit.com.au 2 Locomotive Street Internet: www.odourunit.com.au Eveleigh NSW 2015 ABN: 53 091 165 061



Accreditation Number: 14974

### **Odour Concentration Measurement Results**

	as commissioned by:									
Organisatior		Telephone	+61 2 4577 5000							
Contac		Facsimile	-							
Sampling Site		Email	manager@elffarm.com.au							
Sampling Method	d AS4323.3/4	Sampling Team	TOU (M. Assal)							
Order details:										
Order requested by		Order accepted by	M.Assal							
Date of orde		TOU Project #	N1952R							
Order numbe		Project Manager Testing operator	M. Assal A. Schulz							
Signed by	Kelei to correspondence	resting operator	A. Schulz							
Investigated Item Odour concentration in odour units 'ou', determined by sensory odour concentration measurements, of an odour sample supplied in a sampling bag.										
Identification	The odour sample bags were labell sample number, sampling location (if dilution was used) and whether fu	(or Identification), same	oling date and time, dilution ratio							
Method	The odour concentration measured according to the Australian Stand Olfactometry AS/NZS4323.3:2001. Any deviation from the Australian report.	ard 'Determination of C NATA accredited for o	Odour Concentration by Dynamic compliance with ISO/IEC 17025.							
Measuring Range	The measuring range of the olfact insufficient the odour samples will beyond dilution setting 2 <sup>17</sup> . This is a	I have been pre-diluted.	The machine is not calibrated							
Environment	The measurements were perform temperature is maintained between		pur-conditioned room. The room							
Measuring Dates	The date of each measurement is s	pecified with the results.								
Instrument Used	The olfactometer used during this te ODORMAT SERIES V05	esting session was:								
Instrumental Precision										
Instrumental Accuracy	The accuracy of this instrument for a sensory calibration must be $A \le 0.217$ in accordance with the Australian Standard AS/NZS4323.3:2001.									
	ODORMAT SERIES V05: A = 0.184	43 (April 2014) C	Compliance – Yes							
Lower Detection Limit (LDL)	The LDL for the olfactometer has been determined to be 16 ou (4 times the lowest dilution setting)									
Traceability	The measurements have been performed using standards for which the traceability to the national standard has been demonstrated. The assessors are individually selected to comply with fixed criteria and are monitored in time to keep within the limits of the standard. The results from the assessors are traceable to primary standards of n-butanol in nitrogen.									

Date: Monday, 24 November 2014

Panel Roster Number: SYD20141124 102

D. A. kul.

J. Schulz NSW Laboratory Coordinator

D. Hepple Authorised Signatory Revision: 8

Revision Date: 18.07.2008

Approved By: TJS





Accreditation Number: 14974

#### Odour Sample Measurement Results Panel Roster Number: SYD20141124\_102

Sample Location	TOU Sample ID	Sampling Date & Time	Analysis Date & Time	Panel Size	Valid ITEs	Nominal Sample Dilution	Actual Sample Dilution (Adjusted for Temperature)	Sample Odour Concentration (as received, in the bag) (ou)	Sample Odour Concentration (Final, allowing for dilution) (ou)	Specific Odour Emission Rate (ou.m³/m²/s)
Sample 3# - Bale wetting area (Sunday), Aerating	SC14723	23/11/2014 0855 hrs	24/11/2014 1159 hrs	4	8	-	-	2,900	2,900	1.80
Sample 4# - Bale wetting area (Sunday), Non- aerating	SC14724	23/11/2014 0939 hrs	24/11/2014 1230 hrs	4	8	-	-	2,900	2,900	1.80

Note: The following are not covered by the NATA Accreditation issued to The Odour Unit Pty Ltd:

- 1. The collection of Isolation Flux Hood (IFH) samples and the calculation of the Specific Odour Emission Rate (SOER).
- 2. Final results that have been modified by the dilution factors where parties other than The Odour Unit Pty Ltd. have performed the dilution of samples





Accreditation Number: 14974

#### Odour Panel Calibration Results

Reference Odorant	Reference Odorant Panel Roster Number	Concentration of Reference gas (ppb)	Panel Target Range for n-butanol (ppb)	Measured Concentration (ou)	Measured Panel Threshold (ppb)	Does this panel calibration measurement comply with AS/NZS4323.3:2001 (Yes / No)
n-butanol	SYD20141124_102	50,000	$20 \le \chi \le 80$	861	58	Yes

Comments None.

Disclaimer Parties, other than TOU, responsible for collecting odour samples hereby certify that they have voluntarily furnished these odour samples, appropriately collected and labelled, to The Odour Unit Pty Ltd for the purpose of odour testing. The collection of odour samples by parties other than The Odour Unit Pty Ltd relinquishes The Odour Unit Pty Ltd from all responsibility for the sample collection and any effects or actions that the results from the test(s) may have.

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### **Elf Farm Supplies Pty Ltd**

Mushroom Substrate Plant – Modification to Approved Expansion

### **APPENDIX B:**

PDS CONSULTANCY METEOROLOGICAL DATASET REPORT

### Three

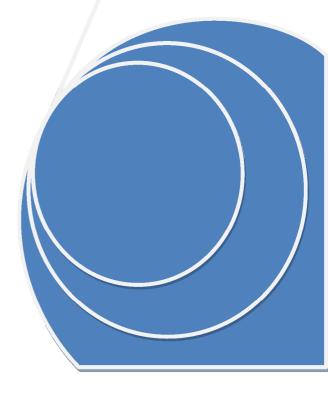
Dimensional

## (3D) Meteorological data file for CALPUFF Mulgrave(NSW)-2008

This file was exclusively compiled for **The Odour Unit** Pty Ltd By pDs Consultancy Service.

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pDs Consultancy @1999-2014





#### **3D METEOROLOGICAL DATA FILE FOR CALPUFF**

www.pdsconsultancy.com

metfile@pdsconsultancy.com





Page **2** of **17** 



#### **3D METEOROLOGICAL DATA FILE FOR CALPUFF**

www.pdsconsultancy.com

metfile@pdsconsultancy.com

### Introduction

Non steady state PUFF model such as CALPUFF (Californian PUFF model) requires meteorological data, preferably hourly average for the entire modelling domain which is in question. Meteorological domain is usually bigger than the computational domain which is intended to use for dispersion modelling. There are several recommended options available to construct 3D meteorological data files. Selection of the suitable option is depending on the data availability.

### Three modes available to run CALMET:

- CALMET No-Observations (No-Obs) Mode. CALMET using gridded numerical model output (e.g., from the MM5, WRF, RAMS, RUC, or TAPM models). No surface, upper air or buoy observations are used in No-Obs mode.
- 2. CALMET Hybrid Mode. CALMET run using a combination of gridded numerical meteorological data supplemented by surface and optional overwater buoy data.
- 3. CALMET Observations-Only (Obs) Mode. CALMET using observed surface and upper air data, plus optional buoy data.

pDs Consultancy has been engaged by **The Odour Unit(TOU)** to compile an 3D meteorological data file for a site at **Mulgrave** in New South Wales using site-specific meteorological data supplied by their client and other available

#### 3D METEOROLOGICAL DATA FILE FOR CALPUFF

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metfile@pdsconsultancy.com

meteorological data obtain from Australian Bureau of Meteorology (BoM). The year 2008 was used on TOU's request.

CONSTRUCTION OF GEOPHYSICAL DATA FILE :

Topography and land used over the area were examined and topography data with 90m resolution was used (Source :SRTM3-Global data). Map showing topography in 3D was prepared and preliminary QA/QC was done comparing it with Google maps.



Page **4** of **17** 

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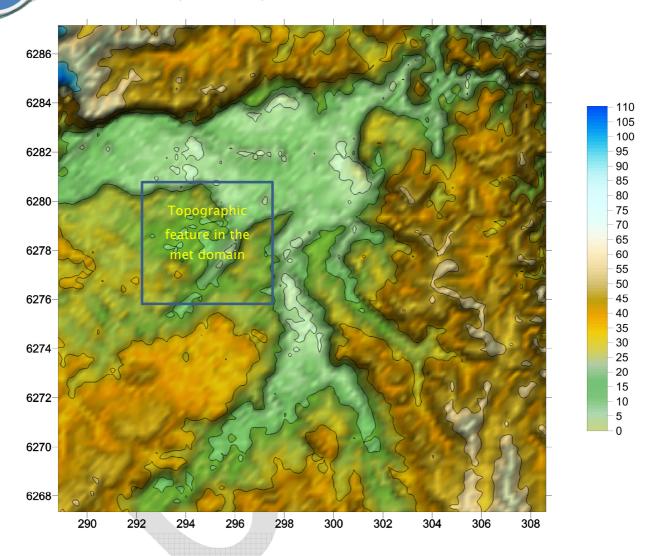


FIGURE 1: TOPOGRAPHY OVER THE METEOROLOGICAL DOMAIN

Global land cover data (Source :GLCC-Australia Pacific) with 900 m resolution was initially used and modified manually to match with real land-use over the area. Only three compatible land use categories were assigned (Built up, Range Land, Forest).



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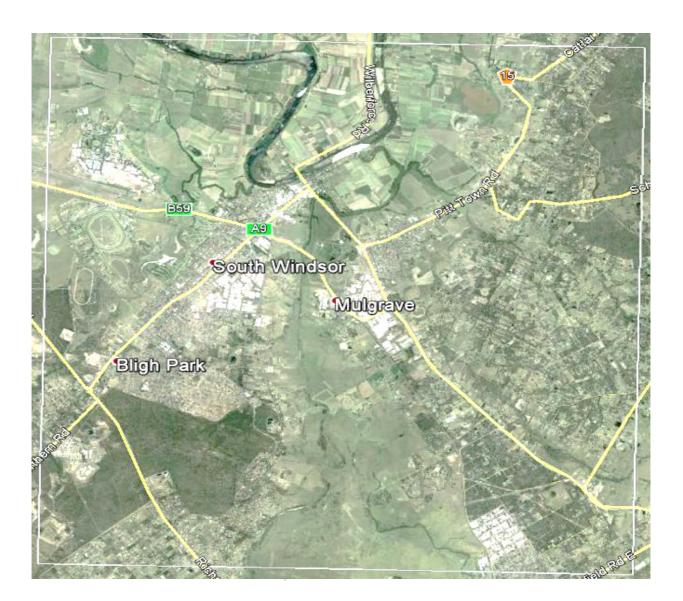


FIGURE 2: LAND USE OVER THE METEOROLOGICAL DOMAIN



Page **6** of **17** 

### www.pdsconsultancy.com

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Geophysical data file (GEO.Dat) was prepared based on above data sets (Topography and Land use) running TERREL for topography, CTGPROC for Land-use and MAKEGEO for final .geo file, pre-processors of CALPUFF modelling system.

In order to resolve near source terrain features, as well as to capture actual meteorological observations, 200 m grid resolution with 20KM by 20KM grid was used. The dominant scale of the terrain (TERRAD- radius of influence) was set to 1 KM.



Page 7 of 17



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### INPUT METEOROLOGY

There were two meteorological data sources within the meteorological domain including the data at the site. Therefore we could use 'Hybrid" option available in CALMET-The meteorological module of CALPUFF modelling system.

CALMET was initialised with 3D data tile prepared running meteorological module of TAPM (CISIRO's The Air Pollution Model). Topography with 90m resolution and land use with ~1 Km resolution were used to prepare 3KM resolution 3D data tile. This will help resolve topography for some extent even with the 3KM resolution met-tile used for initialisation.

### METEOROLOGICAL DOMAIN:

Meteorological domain was designed with 20 KM by 20 KM map extent with 200 m grid resolution in order to capture topography around the application site. Topographic features around the meteorological domain was captured in 3D meteorological data file which was used to initialise CALMET domain which is intended to use for near source modelling.

None of the observed data were biased in the modelling since there is not much confidence in the site-specific data. This helps CALMET's model physics to be dominant when deciding the flow pattern.

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VERTICAL STRUCTURE

Eleven cell faeces were set up with 0,20,40,80,160,320.....,4000m. Predictions were done at 10,30,60 etc..

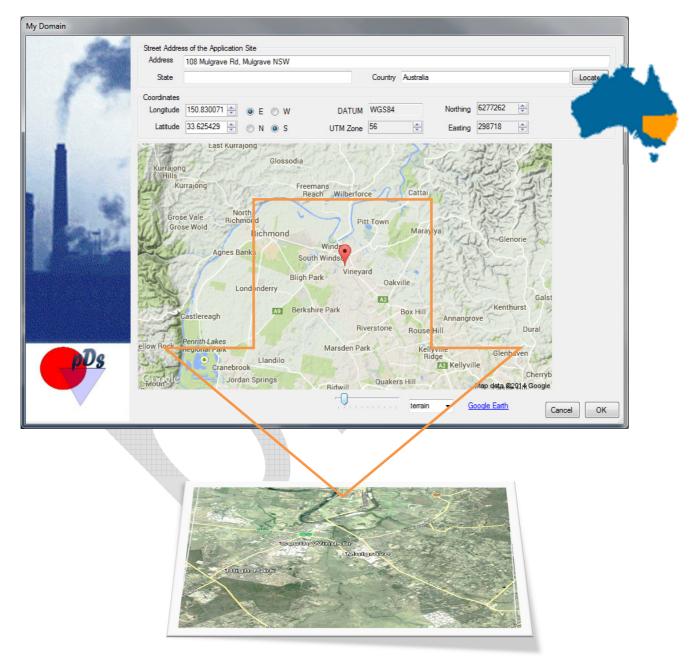
💐 Windows XP	Mode - Windows Virtual PC	- 🗆 🗙
Action 👻	USB 🔻 Tools 👻 Ctrl+Alt+Del	• (9)
🤌	<mark>un</mark> e esta de la constante de la constant	
My Documents	USPLUME	
My Computer	Surfer 8	
Thy comparer		
S	Grid Settings: C:\TOU\CPUFFTOU.INP	
	rosoft Visual Basic 6.0 Datum: WGS-84	
Places	Cell Face Heights: C:\TOU\CPUFFTOU.INP	
3	False (X,Y) at	
Recycle Bin	Cell Face Cell Face Height (m)	
	1         0.0           2         20.0	
(See Internet	3 40.0 4 80.0	
Explorer	5         160.0           6         320.0	
	7         640.0           8         1200.0	
CALPro Plus	9 2000.0 10 Edit Cell Face Heights	
ø	Computational Grid Settings (in Met. Grid Units): Beginning Ending Valid Range X Direction: 1 60 1 to 60	
HP DVD	Y Direction: 1 60 1 to 60	
	OK Cancel Previous Next Help	
PowerDVD		
Windows Media Player		
🦺 start	🧭 🥙 🤮 CALPYO PIUS 7.12.0.0 🕵 CALVIEW 🔛 CALPUFF: C:\TOU\CP	9:21 AM





metfile@pdsconsultancy.com

### LOCATION: MULGRAVE, NSW





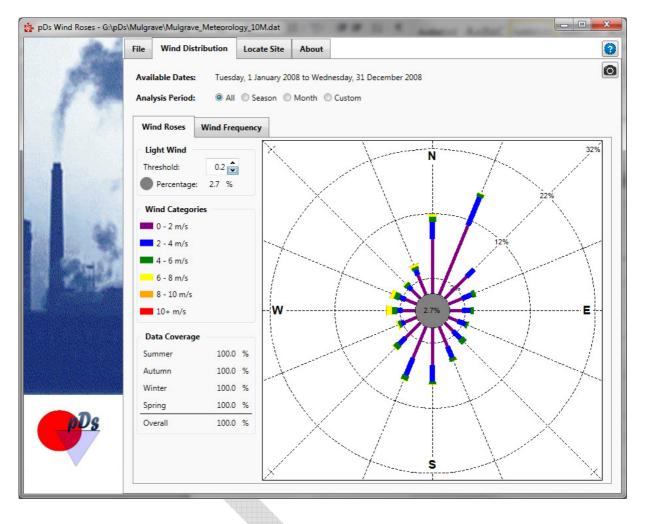
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ANALYSIS OF THE SIMULATED DATA EXTRACTED FOR THE SITE IN QUESTION.

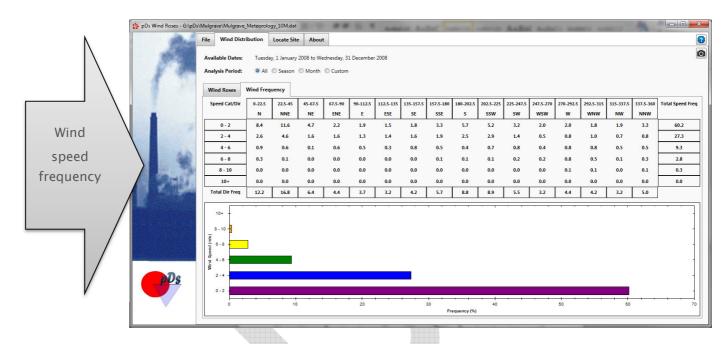
## ANNUAL WINDROSES





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Wind Speed frequency is showing that the intended modelling area experiences more light winds.



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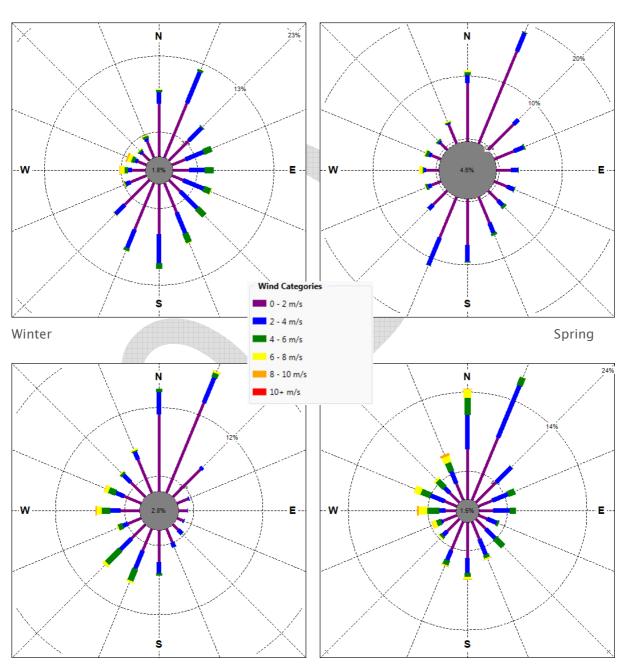
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## SEASONAL WINDROSES

Summer

Autumn



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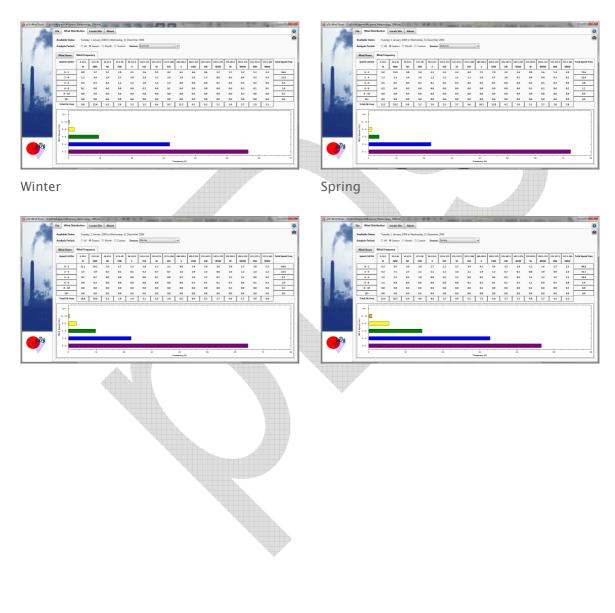
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## SEASONAL WIND SPEED FREQUENCY

Summer

Autumn



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## DATA Data Source

- Global Synoptic data for 2012 in .glo format, Source :CSIRO
- GLCC (Australia Pacific ~900m)
- Google Earth/Mapping
- SRTM3-gap filled



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# **Elf Farm Supplies Pty Ltd**

Mushroom Substrate Plant – Modification to Approved Expansion

# **APPENDIX C:**

CALPUFF MODELLING INPUT PARAMETERS AND CONFIGURATIONS

						Point Source	es			
								Max Odour		
ourse Description	Courses ID	Vertice	Charle Linisht (m)		Stack Diameter		Fuit Tomm (K)	Emission Rate (ou.m <sup>3/</sup> s)	Cooling Fostors	Commente
ource Description	Source ID	coordinates (km)	Stack Height (m)	Base Elevation (m)	(m)	Exit Velocity (m/s)	Exit Temp (K)	(ou.m <sup>+</sup> s)	Scaling Factors	Comments
L External Conveyor	P1Conv	298.439, 6277.241	6.50	12.2	1.84	1.00	307.15	37.100	2.3	VARIABLE - See 'P1 Ext Conveyor'!A1
ent Tunnel 1	Vent01	298.470, 6277.372	10.50	12.2	1.35	7.7	298.2	32.222	2.3	See 'P2 P3 OER Calculations' !A1
nt Tunnel 2	Vent02	298.466, 6277.374	10.50	12.2	1.35	7.7	298.2	32,222	2.3	See 'P2 P3 OER Calculations' !A1
nt Tunnel 3	Vent03	298.462, 6277.375	10.50	12.2	1.35	7.7	298.2	32,222	2.3	See 'P2 P3 OER Calculations'!A1
nt Tunnel 4	Vent04	298.547, 6277.377	10.50	12.2	1.35	7.7	298.2	32.222	2.3	See 'P2 P3 OER Calculations' A1
nt Tunnel 5	Vent05	298.453, 6277.379	10.50	12.2	1.35	7.7	298.2	32,222	2.3	See 'P2 P3 OER Calculations' !A1
nt Tunnel 6	Vent06	298.449, 6277.380	10.50	12.2	1.35	7.7	298.2	32,222	2.3	See 'P2 P3 OER Calculations' !A1
haust Tunnel 1	Exst01	298.454, 6277.338	10.50	12.2	1.35	1.5	318.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' IA1
haust Tunnel 2	Exst02	298.452, 6277.339	10.50	12.2	1.35	1.5	318.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
haust Tunnel 3	Exst03	298.446, 6277.341	10.50	12.2	1.35	1.6	319.7	VARIABLE	2.3	See 'P2 P3 OER Calculations'!A1
haust Tunnel 4	Exst04	298.443, 6277.342	10.50	12.2	1.35	1.6	321.1	VARIABLE	2.3	See 'P2 P3 OER Calculations' IA1
naust Tunnel 5	Exst05	298.437, 6277.345	10.50	12.2	1.35	1.7	322.2	VARIABLE	2.3	See 'P2 P3 OER Calculations' !A1
naust Tunnel 6	Exst06	298.435, 6277.346	10.50	12.2	1.35	1.7	323.1	VARIABLE	2.3	See 'P2 P3 OER Calculations' !A1
haust Tunnel 7	Exst07	298.429, 6277.348	10.50	12.2	1.35	1.2	323.8	VARIABLE	2.3	See 'P2 P3 OER Calculations' IA1
haust Tunnel 8	Exst08	298.427, 6277.349	10.50	12.2	1.35	0.8	297.3	VARIABLE	2.3	See 'P2 P3 OER Calculations' !A1
haust Tunnel 9	Exst09	298.421, 6277.351	10.50	12.2	1.35	0.8	297.3	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
haust Tunnel 10	Exst09	298.418, 6277.352	10.50	12.2	1.35	0.8	297.3	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
haust Tunnel 11	Exst10	298.412, 6277.355		12.2	1.35	0.8	297.3	VARIABLE	2.3	See 'P2 P3 OER Calculations'!A1
haust Tunnel 12	Exst12	298.412, 0277.355		12.2	1.35	0.8	297.3	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
naust Tunnel 12	Exst12	298.404, 6277.358	10.50	12.2	1.35	1.1	296.1	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
naust Tunnel 14	Exst13	298.402, 6277.359	10.50	12.2	1.35	1.1	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' IA1
haust Tunnel 15	Exst14	298.396. 6277.362	10.50	12.2	1.35	1.2	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
naust Tunnel 16	Exst15	298.393, 6277.363	10.50	12.2	1.35	1.2	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
naust Tunnel 17	Exst10	298.387, 6277.365	10.50	12.2	1.35	1.2	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' IA1
haust Tunnel 18	Exst18	298.385, 6277.366		12.2	1.35	2.4	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
haust Tunnel 19	Exst19	298.379, 6277.368		12.2	1.35	2.4	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' IA1
naust Tunnel 20	Exst20	298.377, 6277.369		12.2	1.35	3.1	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations'!A1
haust Tunnel 21	Exst21	298.371, 6277.372	10.50	12.2	1.35	3.1	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' A1
haust Tunnel 22	Exst22	298.368, 6277.373	10.50	12.2	1.35	2.2	296.0	VARIABLE	2.3	See 'P2 P3 OER Calculations' IA1
	ENGLE		10.00	12.2	1.00		230.0	THUR DEC		
						Area Source	S			
						Specific Odour				

				-		Alea Jource		-		
						Specific Odour				
		Vertice	Effective Height			Emission Rate		Odour Emission		
Source Description	Source ID	coordinates (km)	(m)	Base Elevation (m)	Initial Sigma Z (m)	(ou.m³/m².s)	Area (m <sup>2</sup> )	Rate (ou.m <sup>3</sup> /s)	Scaling Factors	Comments
		298.381, 6277.294							Stability Class	
		298.383, 6277.299							Near-/Far-Field	
		298.387, 6277.298							A - D = 2.5 / 2.3	
Leachate Aeration Pit	LAP	298.387, 6277.293	0.00	12.2	1.00	98.8	22	2,182	E - F = 2.3 / 1.9	
		298.230, 6277.280							Stability Class	
		298.235, 6277.312							Near-/Far-Field	
Overflow Retention		298.265, 6277.307							A - D = 2.5 / 2.3	Interim mitigation measure is to take the dam offline (modelled as
Dam	ORD	298.260, 6277.275	0.00	9.1	1.00	7.48	960	7,181	E - F = 2.3 / 1.9	scenario 2C (near-field) & 2D (far-field)).

						Volume Source	ces			
		Vertice	Effective Height				Odour Emission		Peak Odour	
Source Description	Source ID	coordinates (km)	(m)	Base Elevation (m)	Initial Sigma Y (m)	Initial Sigma Z (m)	Rate (ou.m <sup>3</sup> .s)	Scaling Factors	Emission Rate	Comments
Chicken Manure	CMan	298.398, 6277.215	3.25	12.2	6.39	1.63	2,420	2.3	5,566	Constant
Brew Mix	Brew	298.424, 6277.209	3.25	12.2	6.39	1.63	706	2.3	1,624	6AM TO 3PM
Bale Wetting Area	BWA	298.376, 6277.235	2.00	12.2	6.77	1.00	20,909	2.3	48,090	Worst-case 24 hr snapshot
Stable Bedding Area	SBA	298.384, 6277.286	2.00	12.2	2.81	1.00	575	2.3	1,322	Worst-case 24 hr snapshot
Pre-wet Building (98% containment)	PreWet	298.359, 6277.254	0.00	12.2	0.00	0.00	14,900	2.3		See variable calculation table. Worst case 24 hour period for area.
Phase 1 Hall (after)	P1Hall	298.410, 6277.268	4.75	12.2	0.00	0.00	5,920	2.3		VARIABLE - See 'P1 Hall'IA1
P2 Transfer Conveyor Fugitives	P2xfer	298.408, 6277.345	5.25	12.2	0.00	0.00	111	2.3		2% Fugitive Emission, remainder captured by tunnel#1 venting (4PM to 6PM only)

					1	Point Source	5			
Source Description	Source ID	Vertice coordinates (km)	Stack Height (m)	Base Elevation (m)	Stack Diameter (m)	Exit Velocity (m/s)	Exit Temp (K)	Max Odour Emission Rate (ou.m <sup>3/</sup> s)	Scaling Factors	
						1.9				Comments Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 01	Exst01	298.454, 6277.338	10.50	12.2	1.35		320.9	913	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 02	Exst02	298.452, 6277.339 298.446, 6277.341	10.50	12.2	1.35	1.9	320.9	913	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 03	Exst03		10.50	12.2	1.35	1.9	320.9	913	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 04	Exst04	298.443, 6277.342	10.50	12.2	1.35	1.9	320.9	913	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 05	Exst05	298.437, 6277.345	10.50	12.2	1.35	1.9	320.9	996	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 06	Exst06	298.435, 6277.346	10.50	12.2	1.35	1.9	320.9	996	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 07	Exst07	298.429, 6277.348	10.50	12.2	1.35	2.0	320.9	996	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 08	Exst08	298.427, 6277.349	10.50	12.2	1.35	2.0	320.9	996	2.3	Phase.
Exhaust - Tunnel 09	Exst09	298.421, 6277.351	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 10	Exst10	298.418, 6277.352	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 11	Exst11	298.412, 6277.355	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 12	Exst12	298.410, 6277.356	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 13	Exst13	298.404, 6277.358	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 14	Exst14	298.402, 6277.359	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 15	Exst15	298.396, 6277.362	10.50	12.2	1.35	1.4	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 16	Exst16	298.393, 6277.363	10.50	12.2	1.35	1.4	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 17	Exst17	298.387, 6277.365	10.50	12.2	1.35	1.4	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 18	Exst18	298.385, 6277.366	10.50	12.2	1.35	1.4	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 19	Exst19	298.379, 6277.368	10.50	12.2	1.35	1.5	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 20	Exst20	298.377, 6277.369	10.50	12.2	1.35	1.5	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 21	Exst21	298.371, 6277.372	10.50	12.2	1.35	2.3	296.0	494	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 22	Exst22	298.368, 6277.373	10.50	12.2	1.35	2.3	296.0	494	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 23	Exst23	298.362, 6277.375	10.50	12.2	1.35	1.4	296.0	84	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout Phase.
Exhaust - Tunnel 24	Exst24	298.36, 6277.376	10.50	12.2	1.35	0.0	296.0	0	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Empty Tunnel.
Exhaust - Tunnel 25	Exst25	298.354, 6277.379	10.50	12.2	1.35	0.0	296.0	0	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Empty Tunnel.
Exhaust - Tunnel 26	Exst26	298.416, 6277.553	10.50	12.2	1.35	2.7	320.8	2,497	2.3	Worst-case 24 hour snapshot (Thu Bpm to Fri Bpm). Pasturisation > Cooldown (conditioning) > Conditioning 1 Phases.
Exhaust - Tunnel 27	Exst27	298.415. 6277.55	10.50	12.2	1.35	2.7	320.8	2,497	2.3	Cooldown (conditioning) > Conditioning 1 Place. Cooldown (conditioning) > Conditioning 1 Plases.
Exhaust - Tunnel 28		298.413, 6277.544				2.7			2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Pasturisation >
	Exst28		10.50	12.2	1.35		320.8	2,497		Cooldown (conditioning) > Conditioning 1 Phases. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown
Exhaust - Tunnel 29	Exst29	298.412, 6277.542	10.50	12.2	1.35	2.7	320.8	2,497	2.3	(conditioning) > Conditioning 1 Phases. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown
Exhaust - Tunnel 30	Exst30	298.409, 6277.536	10.50	12.2	1.35	2.8	320.8	2,497	2.3	(conditioning) > Conditioning 1 Phases. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown
Exhaust - Tunnel 31	Exst31	298.409, 6277.534	10.50	12.2	1.35	2.7	320.8	1,349	2.3	(conditioning) > Conditioning 1 Phases. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown
Exhaust - Tunnel 32	Exst32	298.406, 6277.528	10.50	12.2	1.35	2.6	320.8	1,349	2.3	(conditioning) > Conditioning 1 Phases. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 33	Exst33	298.405, 6277.525	10.50	12.2	1.35	2.5	320.8	1,349	2.3	Phase.
Exhaust - Tunnel 34	Exst34	298.403, 6277.519	10.50	12.2	1.35	1.0	297.3	172	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 35	Exst35	298.402, 6277.517	10.50	12.2	1.35	1.0	297.3	172	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 36	Exst36	298.399, 6277.511	10.50	12.2	1.35	1.0	297.3	172	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 37	Exst37	298.398, 6277.509	10.50	12.2	1.35	1.0	297.3	172	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 38	Exst38	298.396, 6277.503	10.50	12.2	1.35	1.0	297.3	172	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 39	Exst39	298.395, 6277.5	10.50	12.2	1.35	1.0	297.3	172	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 40	Exst40	298.393, 6277.494	10.50	12.2	1.35	1.6	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 41	Exst41	298.389, 6277.486	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 42	Exst42	298.388, 6277.484	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 43	Exst43	298.386, 6277.478	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 44	Exst44	298.385, 6277.475	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 45	Exst45	298.383, 6277.469	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 46	Exst46	298.382, 6277.467	10.50	12.2	1.35	2.8	296.0	618	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 47	Exst47	298.379, 6277.461	10.50	12.2	1.35	2.8	296.0	618	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 48	Exst48	298.378, 6277.459	10.50	12.2	1.35	4.0	296.0	263	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout Phase.
Exhaust - Tunnel 49	Exst49	298.378, 6277.459	10.50	12.2	1.35	1.7	296.0	105	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout Phase.
Exhaust - Tunnel 50	Exst50	298.376, 6277.453	10.50	12.2	1.35	1.7	296.0	105	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout Phase.
New Biofilter Section	BF01	298.324,6277.223	2.00	12.2	0.00	0.045	313.2	10,620	2.3	
New Biofilter Section	BF01 BF02	298.324,6277.225	2.00	12.2	0.00	0.045			2.3	+
2 New Biofilter Section							313.2	10,620		
3 New Biofilter Section	BF03	298.286,6277.229	2.00	12.2	0.00	0.045	313.2	10,620	2.3	Based upon total biofilter system capacity of 450,000 m3/h and 2,778 m2 surface area at a nominal 500 ou discharge concentration.
4 New Biofilter Section	BF04	298.267,6277.237	2.00	12.2	0.00	0.045	313.2	10,620	2.3	
5 New Biofilter Section	BF05	298.249,6277.246	2.00	12.2	0.00	0.045	313.2	63,722	2.3	
6	BF06	298.231,6277.254	2.00	12.2	0.00	0.045	313.2	0 32,971	2.3	
						Area Source Specific Odour	s			
Source Description	Source ID	Vertice coordinates (km)	Effective Height (m)	Base Elevation (m)	Initial Sigma Z (m)	Emission Rate (ou.m <sup>3</sup> /m <sup>2</sup> .s)	Area (m <sup>2</sup> )	Odour Emission Rate (ou.m <sup>3</sup> /s)	Scaling Factors	Comments
		298.381, 6277.294 298.383, 6277.299				,,			Stability Class Near-/Far-Field	
Water Recycle Pit	LAP	298.383, 6277.298 298.387, 6277.298 298.387, 6277.293	0.00	12.2	1.00	98.8	22	2,182	A - D = 2.5 / 2.3 E - F = 2.3 / 1.9	
	54		0.00	46.6	±.00	50.0	-4	2,102	2.3/ 1.9	l

SCN02

						Volume Source			
		Vertice	Effective Height				Odour Emission		
Source Description	Source ID	coordinates (km)	(m)	Base Elevation (m)	Initial Sigma Y (m)	Initial Sigma Z (m)	Rate (ou.m <sup>3</sup> .s)	Scaling Factors	Comments
Bale Wetting Area	BWA	298.376, 6277.235	2.00	12.2	6.77	1.00	20,909	2.3	Worst-case 24 hr snapshot.
Stable Bedding Area	SBA	298.384, 6277.286	2.00	12.2	2.81	1.00	575	2.3	

						Point Source	25			
		Vertice			Stack Diameter			Odour Emission		
Source Description	Source ID	coordinates (km)	Stack Height (m)	Base Elevation (m)	(m)	Exit Velocity (m/s)	Exit Temp (K)	Rate (ou.m <sup>3/</sup> s)	Scaling Factors	Comments
New Biofilter Section										
1	BF01	298.324,6277.223	2.00	12.2	24.28	0.039	313.2	9,028	2.3	
New Biofilter Section										
2	BF02	298.305,6277.226	2.00	12.2	24.28	0.039	313.2	9,028	2.3	
New Biofilter Section										
3	BF03	298.286,6277.229	2.00	12.2	24.28	0.039	313.2	9,028	2.3	Based upon total biofilter system capacity of 390,000 m3/h and 2,778
New Biofilter Section										m2 surface area at a nominal 500 ou discharge concentration.
4	BF04	298.267,6277.237	2.00	12.2	24.28	0.039	313.2	9,028	2.3	
New Biofilter Section										
5	BF05	298.249,6277.246	2.00	12.2	24.28	0.039	313.2	9,028	2.3	
New Biofilter Section										
6	BF06	298.231,6277.254	2.00	12.2	24.28	0.039	313.2	9,028	2.3	

						Point Source	95			
		Vertice			Stack Diameter			Odour Emission		
Source Description	Source ID	coordinates (km)	Stack Height (m)	Base Elevation (m)	(m)	Exit Velocity (m/s)	Exit Temp (K)	Rate (ou.m <sup>3/</sup> s)	Scaling Factors	Comments
New Biofilter Section										
1	BF01	298.324,6277.223	2.00	12.2	24.28	0.085	313.2	19,648	2.3	
New Biofilter Section										
2	BF02	298.305,6277.226	2.00	12.2	24.28	0.085	313.2	19,648	2.3	
New Biofilter Section										
3	BF03	298.286,6277.229	2.00	12.2	24.28	0.085	313.2	19,648	2.3	Based upon total biofilter system capacity of 848,800 m3/h and 2,778
New Biofilter Section										m2 surface area at a nominal 500 ou discharge concentration.
4	BF04	298.267,6277.237	2.00	12.2	24.28	0.085	313.2	19,648	2.3	
New Biofilter Section										
5	BF05	298.249,6277.246	2.00	12.2	24.28	0.085	313.2	19,648	2.3	
New Biofilter Section										
6	BF06	298.231,6277.254	2.00	12.2	24.28	0.085	313.2	19,648	2.3	

						Point Source	S			
		Vertice			Stack Diameter			Odour Emission		
Source Description	Source ID	coordinates (km)	Stack Height (m)	Base Elevation (m)	(m)	Exit Velocity (m/s)	Exit Temp (K)	Rate (ou.m <sup>3/</sup> s)	Scaling Factors	Comments
New Biofilter Section										
1	BF01	298.324,6277.223	2.00	12.2	24.28	0.039	313.2	9,028	2.3	
New Biofilter Section										
2	BF02	298.305,6277.226	2.00	12.2	24.28	0.039	313.2	9,028	2.3	
New Biofilter Section										
3	BF03	298.286,6277.229	2.00	12.2	24.28	0.039	313.2	9,028	2.3	Based upon total biofilter system capacity of 390,000 m3/h and 2,778
New Biofilter Section 4	BF04	298.267,6277.237	2.00	12.2	24.28	0.039	313.2	9,028	2.3	m2 surface area at a nominal 500 ou discharge concentration.
New Biofilter Section					-			- /		
5	BF05	298.249,6277.246	2.00	12.2	24.28	0.039	313.2	9,028	2.3	
New Biofilter Section										
6	BF06	298.231,6277.254	2.00	12.2	24.28	0.039	313.2	9,028	2.3	
New Biofilter Section										
7	BF07	298.276,6277.371	2.00	12.2	59.47	0.046	313.2	10,620	2.3	
New Biofilter Section	BF08	200 270 6277 200	2.00	12.2	24.28	0.046	242.2	10 (20)	2.2	
8	BFU8	298.279,6277.390	2.00	12.2	24.28	0.046	313.2	10,620	2.3	
New Biofilter Section	BF09	298.282,6277.409	2.00	12.2	24.28	0.046	313.2	10,620	2.3	Based upon total biofilter system capacity of 458,800 m3/h and 2,778
New Biofilter Section	5105	250.202,0277.405	2.00	12.2	24.20	0.040	515.2	10,020	2.5	m2 surface area at a nominal 500 ou discharge concentration.
10	BF10	298.285,6277.428	2.00	12.2	24.28	0.046	313.2	10,620	2.3	
New Biofilter Section								,		
11	BF11	298.288,6277.447	2.00	12.2	24.28	0.046	313.2	10,620	2.3	
New Biofilter Section										
12	BF12	298.291,6277.466	2.00	12.2	24.28	0.046	313.2	10,620	2.3	

						Point Source	S			
		Vertice			Stack Diameter			Max Odour Emission Rate		
Source Description	Source ID		Stack Height (m)	Base Elevation (m)	(m)	Exit Velocity (m/s)	Exit Temp (K)	(ou.m <sup>3/</sup> s)	Scaling Factors	Comments
										Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 01	Exst01	298.454, 6277.338	10.50	12.2	1.35	1.9	320.9	913	2.3	Phase.
Exhaust - Tunnel 02	Exst02	298.452, 6277.339	10.50	12.2	1.35	1.9	320.9	913	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1 Phase.
Exhlaust - Turiner 02	EX3102	298.492, 0277.335	10.50	12.2	1.55	1.5	520.5	515	2.5	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 03	Exst03	298.446, 6277.341	10.50	12.2	1.35	1.9	320.9	913	2.3	Phase.
5 I I T I I I I I I I I I I I I I I I I	Exst04		10.50	12.2	4.95	1.9	320.9	913	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 04	EXSTU4	298.443, 6277.342	10.50	12.2	1.35	1.9	320.9	913	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 05	Exst05	298.437, 6277.345	10.50	12.2	1.35	1.9	320.9	996	2.3	Phase.
	5 100		10 50	12.2	4.95	4.0	222.0	005		Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 06	Exst06	298.435, 6277.346	10.50	12.2	1.35	1.9	320.9	996	2.3	Phase. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 07	Exst07	298.429, 6277.348	10.50	12.2	1.35	2.0	320.9	996	2.3	Phase.
										Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1
Exhaust - Tunnel 08	Exst08	298.427, 6277.349	10.50	12.2	1.35	2.0	320.9	996	2.3	Phase.
Exhaust - Tunnel 09	Exst09	298.421, 6277.351	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 10	Exst10	298.418, 6277.352	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 11	Exst11	298.412, 6277.355	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhidust Tunner II	EXSTIT	250.412, 0277.555	10.50	12.2	1.55	0.0	257.5	150	2.5	
Exhaust - Tunnel 12	Exst12	298.410, 6277.356	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 13	Exst13	298.404, 6277.358	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Turiner 15	EXSLIS	298.404, 0277.338	10.30	12.2	1.55	0.8	237.3	130	2.5	worst-case 24 nour snapshot (mu opin to rn opin). Spawn kun i rnase.
Exhaust - Tunnel 14	Exst14	298.402, 6277.359	10.50	12.2	1.35	0.8	297.3	138	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Subsurd Turnel 45	Exst15	200 200 0277 202	10.50	12.2	1.35		205.0	325	2.3	Manutana 24 kausanakat (Thu Garata Esi Gara), Garawa Dua 2 Dhaa
Exhaust - Tunnel 15	EXST15	298.396, 6277.362	10.50	12.2	1.35	1.4	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 16	Exst16	298.393, 6277.363	10.50	12.2	1.35	1.4	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 17	Exst17	298.387, 6277.365	10.50	12.2	1.35	1.4	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 18	Exst18	298.385, 6277.366	10.50	12.2	1.35	1.4	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 19	Exst19	298.379, 6277.368	10.50	12.2	1.35	1.5	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 20	Exst20	298.377, 6277.369	10.50	12.2	1.35	1.5	296.0	325	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 21	Exst21	298.371, 6277.372	10.50	12.2	1.35	2.3	296.0	494	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 22	Exst22	298.368, 6277.373	10.50	12.2	1.35	2.3	296.0	494	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
										Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout
Exhaust - Tunnel 23	Exst23	298.362, 6277.375	10.50	12.2	1.35	1.4	296.0	84	2.3	Phase.
Exhaust - Tunnel 24	Exst24	298.36, 6277.376	10.50	12.2	1.35	0.0	296.0	0	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Empty Tunnel.
	ENOLE !		10.00		1.55	0.0	250.0	, , , , , , , , , , , , , , , , , , ,	2.0	
Exhaust - Tunnel 25	Exst25	298.354, 6277.379	10.50	12.2	1.35	0.0	296.0	0	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Empty Tunnel.
Exhaust - Tunnel 26	Exst26	298.416, 6277.553	10.50	12.2	1.35	2.7	320.8	2,497	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Pasturisation > Cooldown (conditioning) > Conditioning 1 Phases.
Landust - runner 20	LAJIZU	230.410, 0277.333	10.30	14.4	1.33	2.1	320.0	2,471	2.5	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Pasturisation >
Exhaust - Tunnel 27	Exst27	298.415, 6277.55	10.50	12.2	1.35	2.7	320.8	2,497	2.3	Cooldown (conditioning) > Conditioning 1 Phases.
Eulerine Translad	5t20	200 442 6277 544	10.50	12.2	4.25	27	220.0	2 407	2.2	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Pasturisation >
Exhaust - Tunnel 28	Exst28	298.413, 6277.544	10.50	12.2	1.35	2.7	320.8	2,497	2.3	Cooldown (conditioning) > Conditioning 1 Phases. Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown
Exhaust - Tunnel 29	Exst29	298.412, 6277.542	10.50	12.2	1.35	2.7	320.8	2,497	2.3	(conditioning) > Conditioning 1 Phases.

bestar Turnel 30         bestar Turnel 30         Bestar Turnel 31         Bestar Turnel 32         Destar Turnel 32         Destar Turnel 32         Destar Turnel 32         Destar Turnel 33         Destar Turnel 33         Destar Turnel 33         Destar Turnel 34         Destar Turnel 34 <thdestar 34<="" th="" turnel=""> <thdestar 34<="" t<="" th="" turnel=""><th></th><th></th><th></th><th></th><th></th><th></th><th>Point Source</th><th>S</th><th></th><th></th><th></th></thdestar></thdestar>							Point Source	S			
Linkust - Tunnel 30         Des 48 409, 6277.54         10.50         1.22         1.15         2.4         30.84         2.497         2.4         (conditioning) - Conditioning - Conding - Conditioning	Source Description	Source ID		Stack Height (m)	Base Elevation (m)		Exit Velocity (m/s)	Exit Temp (K)	Emission Rate	Scaling Factors	Comments
Ender: Turnel 1         Evel3         284.09, 627:54         10.50         12.2         1.35         2.7         30.8         1,34         2.3         Wort-case 24 hour snapphot (Thu Bym tor Fight). Coddown formation (2) conditioning 1 Parses.           triauet - Turnel 2         Evel3         284.09, 627:52         10.50         12.2         1.35         2.6         30.08         1,44         2.3         Wort-case 24 hour snapphot (Thu Bym tor Fight). Coddown formation (2) conditioning 1 Parses.           triauet - Turnel 34         Evel3         284.09, 627:51         10.50         12.2         1.35         1.0         297.3         172         2.3         Wort-case 24 hour snapphot (Thu Bym tor Fight). Coddown form Bym. Coddown function (1)           triauet - Turnel 35         Evel3         284.09, 627:517         10.50         12.2         1.35         1.0         297.3         172         2.3         Wort-case 24 hour snapphot (Thu Bym tor Fight). Spawn Run 1 Plaze           triauet - Turnel 36         Evel3         284.09, 6277.517         10.50         12.2         1.35         1.0         297.3         172         2.3         Wort-case 24 hour snapphot (Thu Bym tor Fight). Spawn Run 1 Plaze           triauet - Turnel 37         Evel3         288.396, 677.503         10.50         12.2         1.35         1.0         297.3         172											Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown
Debauer-Tunnel 1         Exc13         288.496, 2277.58         10.50         1.22         1.35         2.6         32.0.8         1.480         2.3         Conditioning 1 Condit Conditioning 1	Exhaust - Tunnel 30	Exst30	298.409, 6277.536	10.50	12.2	1.35	2.8	320.8	2,497	2.3	
Extent Turnel 2         Best 3         Best 3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Default         Default         288.066, 2277.52         10.50         1.22         1.35         2.6         32.08         1.349         2.3         Conditioning 1- Conditioning 1 Phases.           Exbault-Turnel 31         Dext33         288.056, 2277.52         10.50         12.2         1.35         2.5         320.8         1.399         2.3         Work-case 24 hour snapphot (Thu 8pm 1or fit 8pm), Spawn Run 1 Phase.           Exbault-Turnel 35         Dext33         288.405, 2277.51         10.50         12.2         1.35         1.0         297.3         172         2.3         Work-case 24 hour snapphot (Thu 8pm 1or fit 8pm), Spawn Run 1 Phase.           Exbault-Turnel 36         Dext35         288.405, 2277.51         10.50         12.2         1.35         1.0         297.3         172         2.3         Work-case 24 hour snapphot (Thu 8pm 1or fit 8pm), Spawn Run 1 Phase.           Exbault-Turnel 36         Dext35         288.396, 227.50         10.50         12.2         1.35         1.0         297.3         172         2.3         Work-case 24 hour snapphot (Thu 8pm 1or fit 8pm), Spawn Run 1 Phase.           Exbault-Turnel 36         Dext35         288.396, 227.50         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapphot (Thu 8pm 1or fit 8pm), Spawn Ru	Exhaust - Tunnel 31	Exst31	298.409, 6277.534	10.50	12.2	1.35	2.7	320.8	1,349	2.3	
Endur. Turnel 3         Evet 3         284.405, 6277.525         10.50         12.2         1.35         2.5         2.08         1.349         2.3         Phase.           Exbaurt. Turnel 44         Evet 34         284.405, 6277.527         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Conditioning 1           Exbaurt. Turnel 45         Ext 34         284.405, 6277.517         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exbaurt. Turnel 45         Ext 34         284.99, 6277.517         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exbaurt. Turnel 45         Ext 37         284.99, 6277.50         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exbaurt. Turnel 48         Ext 43         284.99, 6277.50         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase. <td></td>											
Exhault-Turnel 3Exit 3 <td>Exhaust - Tunnel 32</td> <td>Exst32</td> <td>298.406, 6277.528</td> <td>10.50</td> <td>12.2</td> <td>1.35</td> <td>2.6</td> <td>320.8</td> <td>1,349</td> <td>2.3</td> <td></td>	Exhaust - Tunnel 32	Exst32	298.406, 6277.528	10.50	12.2	1.35	2.6	320.8	1,349	2.3	
Exhaust - Tunnel 34         Exist 3         298,403, 6277,519         10.50         12.2         1.35         1.0         297,3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase           Exhaust - Tunnel 36         Exst3         298,402, 6277,517         10.50         12.2         1.35         1.0         297,3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase           Exhaust - Tunnel 36         Exst3         298,402, 6277,517         10.50         12.2         1.35         1.0         297,3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase           Exhaust - Tunnel 37         Exst3         298,396, 6277,509         10.50         12.2         1.35         1.0         297,3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase           Exhaust - Tunnel 38         Ext38         298,396, 6277,503         10.50         12.2         1.35         1.0         297,3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase           Exhaust - Tunnel 40         Ext40         298,396, 6277,503         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24											
Enduxt - Tunnel 35         Exit 35         298.402, 6277.517         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase           Exhaust - Tunnel 36         Exit 36         298.490, 6277.511         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase           Exhaust - Tunnel 37         Exit 37         298.496, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase           Exhaust - Tunnel 38         Exit 38         298.396, 6277.53         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase           Exhaust - Tunnel 39         Exit 30         298.395, 6277.5         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exit 40         298.395, 6277.54         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-c	Exhaust - Tunnel 33	Exst33	298.405, 6277.525	10.50	12.2	1.35	2.5	320.8	1,349	2.3	Phase.
Enduxt - Tunnel 35         Exit 35         298.402, 6277.517         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase           Exhaust - Tunnel 36         Exit 36         298.490, 6277.511         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase           Exhaust - Tunnel 37         Exit 37         298.496, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase           Exhaust - Tunnel 38         Exit 38         298.396, 6277.53         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase           Exhaust - Tunnel 39         Exit 30         298.395, 6277.5         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exit 40         298.395, 6277.54         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-c				10 50	(2.2	4.05		207.0	470		
Exhaust - Tunnel 36         Exst36         298.399, 6277.511         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 37         Exst37         298.399, 6277.501         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 38         Exst38         298.396, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 38         Exst39         298.396, 6277.50         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 40         Exst39         298.396, 6277.50         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst41         298.386, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-	Exhaust - Tunnel 34	Exst34	298.403, 6277.519	10.50	12.2	1.35	1.0	297.3	1/2	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 36         Exst36         298.399, 6277.511         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 37         Exst37         298.399, 6277.501         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 38         Exst38         298.396, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 38         Exst39         298.396, 6277.50         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 40         Exst39         298.396, 6277.50         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst41         298.386, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-	Exhaust Tupped 2E	Evet2E	209 402 6277 517	10 50	12.2	1 25	1.0	207.2	172	2.2	Marst case 24 hour coanshet (Thu Rom to Eri Rom) Spawn Bun 1 Bhase
Exhaust - Tunnel 37         Exst37         298.398, 6277.509         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 38         Exst38         298.396, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 38         Exst39         298.396, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 40         Exst40         298.393, 6277.44         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst41         298.389, 6277.486         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst42         298.388, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst	Exildust - Turiner 55	EXSLSS	258.402, 0277.517	10.50	12.2	1.55	1.0	237.5	1/2	2.5	worst-case 24 hour shapshot (thu opin to Phopin). Spawn Run 1 Phase.
Exhaust - Tunnel 37         Exst37         298.398, 6277.509         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 38         Exst38         298.396, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 38         Exst39         298.396, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 40         Exst40         298.393, 6277.44         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst41         298.389, 6277.486         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst42         298.388, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst	Exhaust - Tunnel 36	Exct36	208 200 6277 511	10.50	12.2	1 25	1.0	207.3	172	2 2	Worst-case 24 hour spanshot (Thu 8pm to Eri 8pm) Spawn Run 1 Phase
Exhaust - Tunnel 38         Exst 38         298.396, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase.           Exhaust - Tunnel 39         Exst 39         298.395, 6277.59         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase.           Exhaust - Tunnel 40         Exst 40         298.395, 6277.494         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst 41         298.388, 6277.486         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst 42         298.388, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst 42         298.388, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3 <td< td=""><td>Exilaust - Turiner 50</td><td>EX3130</td><td>238.333, 0277.311</td><td>10.50</td><td>12.2</td><td>1.55</td><td>1.0</td><td>257.5</td><td>1/2</td><td>2.5</td><td>worst-case 24 nour snapshot (mu opin to rn opin). Spawn tun 1 rnase.</td></td<>	Exilaust - Turiner 50	EX3130	238.333, 0277.311	10.50	12.2	1.55	1.0	257.5	1/2	2.5	worst-case 24 nour snapshot (mu opin to rn opin). Spawn tun 1 rnase.
Exhaust - Tunnel 38         Exst 38         298.396, 6277.503         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase.           Exhaust - Tunnel 39         Exst 39         298.395, 6277.59         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase.           Exhaust - Tunnel 40         Exst 40         298.395, 6277.494         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst 41         298.388, 6277.486         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst 42         298.388, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst 42         298.388, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3 <td< td=""><td>Exhaust - Tunnel 37</td><td>Exst37</td><td>298 398 6277 509</td><td>10 50</td><td>12.2</td><td>1 35</td><td>1.0</td><td>297 3</td><td>172</td><td>23</td><td>Worst-case 24 hour snanshot (Thu 8nm to Fri 8nm) Snawn Run 1 Phase</td></td<>	Exhaust - Tunnel 37	Exst37	298 398 6277 509	10 50	12.2	1 35	1.0	297 3	172	23	Worst-case 24 hour snanshot (Thu 8nm to Fri 8nm) Snawn Run 1 Phase
Exhaust - Tunnel 39         Exst 39         298.395, 6277.5         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 40         Exst 40         298.393, 6277.494         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst 41         298.389, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst 42         298.386, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst 42         298.386, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst 44         298.386, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3	Exhluse Fulliers?	Exercisi	2501050, 02771505	10.00	1212	2.00	1.0	237.13	1/2	2.0	
Exhaust - Tunnel 39         Exst 39         298.395, 6277.5         10.50         12.2         1.35         1.0         297.3         172         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.           Exhaust - Tunnel 40         Exst 40         298.393, 6277.494         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst 41         298.389, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst 42         298.386, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst 42         298.386, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst 44         298.386, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3	Exhaust - Tunnel 38	Exst38	298.396.6277.503	10.50	12.2	1.35	1.0	297.3	172	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm), Spawn Run 1 Phase.
Exhaust - Tunnel 40         Exst40         298.393, 6277.494         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst41         298.389, 6277.486         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst42         298.388, 6277.486         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst42         298.388, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst44         298.385, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 44         Exst44         298.385, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Wors											
Exhaust - Tunnel 40         Exst40         298.393, 6277.494         10.50         12.2         1.35         1.6         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 41         Exst41         298.389, 6277.486         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst42         298.388, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst42         298.386, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 44         Exst44         298.386, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 45         Exst44         298.386, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Wors	Exhaust - Tunnel 39	Exst39	298.395, 6277.5	10.50	12.2	1.35	1.0	297.3	172	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 1 Phase.
Exhaust - Tunnel 41         Exst41         298.389, 6277.486         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 42         Exst42         298.388, 6277.484         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst43         298.386, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst44         298.386, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 44         Exst44         298.386, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 45         Exst45         298.382, 6277.467         10.50         12.2         1.35         1.7         296.0         618         2.3         Wors											
Exhaust - Tunnel 42         Exst42         298.388, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst43         298.386, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 44         Exst44         298.385, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 44         Exst44         298.385, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 45         Exst45         298.383, 6277.467         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 46         Exst46         298.382, 6277.467         10.50         12.2         1.35         2.8         296.0         618         2.3         Wors	Exhaust - Tunnel 40	Exst40	298.393, 6277.494	10.50	12.2	1.35	1.6	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 42         Exst42         298.388, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 43         Exst43         298.386, 6277.478         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 44         Exst44         298.385, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 44         Exst44         298.385, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 45         Exst45         298.383, 6277.467         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 46         Exst46         298.382, 6277.467         10.50         12.2         1.35         2.8         296.0         618         2.3         Wors											
Exhaust - Tunnel 43       Exst43       298.386, 6277.478       10.50       12.2       1.35       1.7       296.0       369       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 44       Exst44       298.385, 6277.475       10.50       12.2       1.35       1.7       296.0       369       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 45       Exst45       298.383, 6277.469       10.50       12.2       1.35       1.7       296.0       369       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 46       Exst46       298.382, 6277.467       10.50       12.2       1.35       2.8       296.0       618       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 47       Exst47       298.379, 6277.461       10.50       12.2       1.35       2.8       296.0       618       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 47       Exst47       298.379, 6277.461       10.50       12.2       1.35       2.8       296.0       618       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Exhaust - Tunnel 48	Exhaust - Tunnel 41	Exst41	298.389, 6277.486	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 43       Exst43       298.386, 6277.478       10.50       12.2       1.35       1.7       296.0       369       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 44       Exst44       298.385, 6277.475       10.50       12.2       1.35       1.7       296.0       369       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 45       Exst45       298.383, 6277.469       10.50       12.2       1.35       1.7       296.0       369       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 46       Exst46       298.382, 6277.467       10.50       12.2       1.35       2.8       296.0       618       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 47       Exst47       298.379, 6277.461       10.50       12.2       1.35       2.8       296.0       618       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.         Exhaust - Tunnel 47       Exst47       298.379, 6277.461       10.50       12.2       1.35       2.8       296.0       618       2.3       Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Exhaust - Tunnel 48											
Exhaust - Tunnel 44         Exst44         298.385, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 45         Exst45         298.383, 6277.469         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 46         Exst46         298.382, 6277.467         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Wors	Exhaust - Tunnel 42	Exst42	298.388, 6277.484	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 44         Exst44         298.385, 6277.475         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 45         Exst45         298.383, 6277.469         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 46         Exst46         298.382, 6277.467         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Wors											
Exhaust - Tunnel 45         Exst 45         298.383, 6277.469         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 46         Exst 46         298.382, 6277.467         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst 47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst 47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst 48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 48         Exst 49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Exhaust - Tunnel	Exhaust - Tunnel 43	Exst43	298.386, 6277.478	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 45         Exst 45         298.383, 6277.469         10.50         12.2         1.35         1.7         296.0         369         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 46         Exst 46         298.382, 6277.467         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst 47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst 47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst 48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 48         Exst 49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Exhaust - Tunnel											
Exhaust - Tunnel 46         Exst46         298.382, 6277.467         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         W	Exhaust - Tunnel 44	Exst44	298.385, 6277.475	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 46         Exst46         298.382, 6277.467         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 47         Exst47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         W											
Exhaust - Tunnel 47         Exst47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout           Exhaust - Tunnel 48         Exst49         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout	Exhaust - Tunnel 45	Exst45	298.383, 6277.469	10.50	12.2	1.35	1.7	296.0	369	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 47         Exst47         298.379, 6277.461         10.50         12.2         1.35         2.8         296.0         618         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.           Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout           Exhaust - Tunnel 48         Exst49         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout											
Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Phase.         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout	Exhaust - Tunnel 46	Exst46	298.382, 6277.467	10.50	12.2	1.35	2.8	296.0	618	2.3	Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Spawn Run 2 Phase.
Exhaust - Tunnel 48         Exst48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Phase.         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout				10 50	(2.2	4.95		205.0	640		
Exhaust - Tunnel 48         Exst 48         298.378, 6277.459         10.50         12.2         1.35         4.0         296.0         263         2.3         Phase.           Exhaust - Tunnel 49         Exst 49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Exhaust - Tunnel 49         Exst 49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Phase.           Vorst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout         Phase.         Phase.         Vorst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout	Exnaust - Tunnel 47	EXST47	298.379, 6277.461	10.50	12.2	1.35	2.8	296.0	618	2.3	
Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         12.2         1.35         1.7         296.0         105         2.3         Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout Phase.           Void - Marcine - Marci	Eulopust Tuppel 40	Evet 49	200 270 6277 450	10.50	12.2	1.25	4.0	206.0	262	2.2	
Exhaust - Tunnel 49         Exst49         298.378, 6277.459         10.50         1.2         1.35         1.7         296.0         105         2.3         Phase.           Moreover and the second se	Exhaust - Tunnei 48	EXST48	290.378, 0277.459	10.50	12.2	1.35	4.0	296.0	203	2.3	
Worst-case 24 hour snapshot (Thu 8pm to Fri 8pm). Cooldown Shipout	Exhaust - Tunnel 40	Exct/10	208 278 6277 450	10.50	12.2	1 25	17	296.0	105	23	
	Exhaust - Turmer 49	EX3143	230.376, 0277.439	10.50	12.2	1.33	1./	230.0	103	2.3	
Expanse Linnel50   Exst50   Z9X 376 677774531 1050   17.7   135   1.7   296.0   105   7.3   Photo	Exhaust - Tunnel 50	Exst50	298.376, 6277.453	10.50	12.2	1.35	1.7	296.0	105	2.3	Phase.



# **Elf Farm Supplies Pty Ltd**

Mushroom Substrate Plant – Modification to Approved Expansion

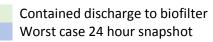
# **APPENDIX D:**

PHASE 2/3 ODOUR EMISSIONS TREND PROFILE WORKSHEET

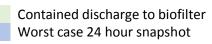
Worksheet tille: Associated object th Cycle Time (lost) 2 4 6 50 50 12		ission trend profile for a		Stage
*****				Stage
14 4 W M 2		Fan islet airtfaw (m <sup>2</sup> N)	Odour emission rate (ou.m?ls)	
# 50	40,000 3,600 12,000 8,600	27	32,200	furnet verding Levelding
	12,000	23	17,000 11,500	
52	4,800 2,400 6,000	47	4,790 3,390 8,690	1
54 58 20	7.800 2.600 3.800	23	11,800 5,580 1,730	Nam-up Pacaulisation
20		11	2,590	1 1
21	7.600 11,400	21	5.150 7.730	Padeunsation
20	7,800	23	1,730 1,730 5,550 7,730 5,550 7,730 5,550 7,730 7,730	
ы 31 33	2,403 7,403 11,400 7,403 11,400 4,800 11,800 13,400 15,500 15,500	11 11 11 11 11 11	2,720 818 1,550 1,780 2,000 1,530	overweet conditioning
40 42	15.300 11,700	43 3.3	2 000	Conditioning 1
44 48	11,300 11,300 11,300 11,300 3,800		1,533 1,533 1,533 1,533 1,533 1,533 1,233 1,233 1,233	
44 44 50	11,000	23 23 24	1,230	1 1
11 14	1 800	2.8		1 1
58 57	1.800	2.8	1,210	3
42 44		2.8	128	1
44 43 70	1.800	2.4	128	1 1
72	1 800	2.8	1,230	1 1
78 78	8.800 9.800 1.800	2.8	1280	1 E
80 82	10,800	23	1,290	1
11 11 11 12 13 12 12	10,800 10,800 10,800 12,600 12,600 12,600 12,600 12,600 12,600	14 14 14 14 14 15	1,410 1,410 1,410 1,410 1,410 1,410 1,410 1,410 1,410 1,410 1,410 1,410 1,410	1 1
90 92	12,600	25	1.650	Conditioning 2
54 55 53	12 400	25 35 23	1.650	1
100	12,400	3.5 3.5	1,650	1 1
504 504 504	12,600 12,600	25	1.650	1 E
108	12,400 12,400 12,400 12,400	2.5	1.650 1.650 1.650	1
514 534		42 10		Cool-down spawn
114 518 520	18,000 21,000 5,500	14 5.8 1.5	251	1 1
524 538	3,500	10	41 20	
528	1,000	04 03	1	1 1
534	1,000	43	33 33	1 1
52 53 53 53 54 54 54	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 4,000	4.3 43 43 43 43 43 43 43 43 43	23 23 23 23 23 23 23 23 23 23	: I
542 544 548	1,000 1,000 1,00 <sup>4</sup>	4.3 4.3 4.3	23 23 33	
544 548 547	4,200	10	20 20 538	apawa Kan 1
52	4.201 4.201 4.201 4.201	ii.	100	: I
554 558 560	6.200	12 12 12	538 538 548	1 1
943 942 944	4,200 4,200 4,200	12	138	1
54	4,200 4,200 4,200 4,200 4,200 4,200 4,200	12	538	:
548 534 572 574	4,200 4,200 4,20 <sup>4</sup>	13 13 13	138 138 138	
91 91		12	138	9 I
593 592 592	4 200 4 200 4 200	12	538 538 538	:
	4,200 4,200 4,201			1 I
583 590 592	4,200 4,200 4,200	13 12	11	3
394 594	4 200 4 200	12	538 538	1
198 200 200	4.200 4.200 4.200 4.200 4.200 4.200 4.200 4.200	12 12	538 538	1 I
201	4.200 4.200	12 12	148 538 538	3
204 201 201	4 202	12	538 538	1
275 212 214 274	4,200 4,200 4,200 4,200	12	538 538	1 I
214 211 223	4 200 4 200 4 200	12 12 13	538 538	1 I
222	4 200 4 200 4 200 4 200	12	138	
228 228 239	4 200 4 200 4 200	13	538	1 1
233 232 234	4,200 4,200 4,200	12	538 538	1 I
	4,200 4,200 4,200 4,200	11	538 538	: I
238 240 243 243	4,200 4,200	13	538 538	1 I
244	4,200 4,200 4,200 4,200 4,200 4,200 4,200	12	538	: I
290 292 294	4,200 4,200 4,20 <sup>4</sup>	12 13	538 538 538	
24	4,200 4,200 4,200 4,200 4,200 4,200	1	138	: I
201	4,200	12	138	1 1
211		12	138	1
268 271 272	4,200 4,200 4,200	12	538 538	1 1
274	4,200	12	138	1 1
211 282 282 283	4,200 4,200 4,200 4,200	12	538 538 538	1
	4.200 4.200			3
288 290 292	4,201 4,201 4,201	12	138 138	1
214 214	4.200 4.200	12	110	
211	4.200 4.200 4.200 4.200 4.200	12	538	1
204 204 201	4,200 4,200	13	538 538	1 1
308 310 312	4,200 4,200 4,200 4,200 4,200 4,200	12	538 538 538	3
314 224		10	538	1 1
218 203	4,800 4,800	13 13	512 512	
322	4,800	13	557	1 1
201 323 202	4,800	13 13 13	557 557	1
302 234	4,800 4,800 4,800 5,800 5,800	13	557	ipawi Rut 2
234	3 400	14	238	1 1
312	5.60 5.60 5.60 6.30 4.30 4.30	10	218 248 248	1
314 318	6,200	14	246	
252	6.302	54	246	1 1
254 254 258	4,300 4,300 4,300 4,300 4,300 4,300 4,300	1	266 266 268	1
341 342 345	6,300	5.4	216	3 1
21	1,202		246	1
201 372	6.300 6.300	1.8 5.8	266 266	1 E
274	7,000	14	216	
371 282 392 392 394	7,000 7,000 7,000 7,000 7,000 7,000	13 19 19	216 236 236 236	1 I
204	7,000 7,000		216	
201 201 27	7,000 7,000 7,000 7,000	1	28	:
201 201 201 201	7,000 7,000 7,000 7,000	11 11 11	215 218 216 216	1 I
294 400	7,000 7,000	- 11	216	
402 404 404	7,000 7,000 7,700	11	216 216 325	4
408		21	325	1 I
411 412 414	7,700 7,700 7,700	2.5 2.5 2.5	325 325 325	
8	7,700	25	325	4
01 01 01	7,700 7,700 7,700	21	223 323 325	1 I
01 61	7,700	21	225 225 225	
01 02 02 03 03 04 04 03	2,200 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700	2.5 2.5 2.5 2.5 2.5 2.5	325 325	
01	7,700 7,700 7,700	2.5	223 323 325	1 I
440 443 444	7,700	21 21 21 21	323 325 325 325 325 325 325 325 325 325	4
404 404	7,700	21		
468	7.702	<u>.</u>	325	
62	7.700	21 21 25 25	201 201 205 205	
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	15.00           16.00           16.00           16.00           16.00           16.00           16.00           16.00           11.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           12.00           11.00           11.00           11.00	33           34           30           31           32           33           34           35           34           35           35           35           35		
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2 -	-	- 3	8,400 4,80	00 2,40	0 6,000	8,400	7,800	2,600	3,900	-	-		-	-	-	-	-	-	-		-	-	-		-	-	-	- 56,70	0 30,000	7,000	37,800	-		- 58,500	53,550	-	35,200	18,750	-	-
4 -		-	- 4,80	0 2,40	0 6,000	8,400	7,800	2,600	3,900	2,600	-		-		-	-	-	-	-		-	-	-		-	-	-	- 56,70	0 24,000	14,000	37,800	-		43,875		-	35,200		15,750	-
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- 6	-			-		-	-								-	-	-	-	-	- 47,25	0 18,750	22,500	26,250 6,8	375 5,625	-			000 56,70		-			8,875 40,5					37,500	-	-
8 -	-								-	-	-		-	-	-	-	-	-	-	- 31,50	0 18,750	22,500	26,250 6,8	375 5,625	4,375	-	- 6,0		0 4,800	-	-	- 1						37,500	-	-
	-			-		-	-							-	-	-	-	-	-	- 15,75	0 18,750	22,500	26,250 6,8	375 5,625	4,375	3,125	- 5,0	56,70	9,600	-			9,625 67,5					37,500	-	-
52 -	-	-		-		-	-	-	-	-	-		-		-	-	-	-	-		18,750	22,500	26,250 6,8	375 5,625	4,375	3,125 1	1,875 4,0	000 56,70	0 14,400	-	-	-	- 81,0	00 58,500		-			-	-
	-			-			-								-	-	-	-	-			22,500	26,250 6,8	375 5,625	4,375	3,125 1	1,875 4,2	50 56,70	0 19,200	-	-	-	- 81,0	58,500	- (	-				-
56 -	-	-		-		-											-	-	-		-		26,250 6,8	5,625	4,375	3,125 1	1,875 4,5	56,70	0 24,000				- 81,0			-				-
				-		-									-	-	-	-	-		-	-	- 6,8	5,625	4,375	3,125 1	1,875 4,7	50 56,70	0 28,800	-	-	-		500 73,125			17,600		31,500	•
	-			-																			-										- 54,0			-		15,000		- 17,500
50 -				-											-			-	-				-		4,375	3,125 1	1,073 0,2	50,70	28,800					30 102,375	· · ·	-	-	10,000		
50 - 52 -	-												-					-	-				-			3.125 1	1.875 7 9	500 56 70	0 28 800		-	-	- 27 0	00 117 000	) -	-	-	15,000	- 1 1	17.500
50 - 52 - 54 -	-	-		-	-	-	-	-	-	-	-		-		-	-	-	-	-		-	-	-		-	3,125 1	1,875 7,5 1,875 87	500 56,70	0 28,800	- 5,600	-	-	- 27,0					15,000 15.000		17,500 17,500



90,000 Cycle Vening Leveling 0-2 Leveling 2-4 Leveling 4-5 Leveling 6-8 Leveling 8- Leveling 10- Leveling 12- Warm Up 0- Warm Up 0- Warm Up 6- Pasteurisatio Pasteurisat	o Cooldown Cooldown Cooldown Cooldown Cooldown Cooldown Cooldown Conditioning Conditioning Conditioning 1a 0-2 2-4 4-6 6-8 8	tioning Conditioning Conditioning Conditioning 1 to 1c 2 Spawn a 0-2 Spawn a 0	n Cooldown Cooldown Cooldown Cooldown Cooldown Cooldown Spawn b 4-6 Spawn b 0-2 Spawn b 2-4 Spawn b 4-6 Spawn b 6		n Spawn Run Spawn Run Spawn Run Spawn Run 2b 2c 2d 2e 2f	n Spawn Run Spawn Run Cooldown
100 Exa 40% FAD, 50% FAD, 35% FAD, 20% FAD, 10% FAD, 25% FAD, 35% FAD, 30% FAD, 10% FAD, 10% FAD, 10% FAD, 20% FAD, 30% FAD, 20% FAD, 30%	, 20% FAD, 35% FAD, 40% FAD, 45% FAD, 45% FA 85% Fan 85% Fan 85% Fan 85% Fan 65% Fa			D, 15% FAD, 10% FAD, 30% FAD, 30% FAD, 35% FAD, an 25% Fan 25% Fan 35% Fan 40% Fan 40% Fan	, 35% FAD, 35% FAD, 35% FAD, 45% FAD, 45% FAD, 45% FAD, 45% FAD, 45% FAD, 60% Fan 60% Fan 65% Fan	
Tursday4am-sam 2				- 105 1,859 472 709	9 4,076	6 1,596 - 263 - 151 - 9,229 38 9,64
4         ·		· · · · · · · ·		- 75 1,859 551 946	5 266 3,088	8 2,660 - 263 - 151 - 9,856 40 9,59
		· · · · · · ·	· · · · · · ·	- 60 1,859 590 946 - 45 1,859 787 709		
12 · · · · · · · · · · · · · · · · · · ·				- <u>30</u> 1,859 983 473 - <u>15</u> 1,859 1,180 236	3 1,064 3,088 5 1,330 3,088	
				1,859 1,180 -	1,596 3,088	B 1,596 - 420 224 9,962 43 9,60
		· · · · · · ·		1,859 1,180 - - 1,859 1,180 -	1,596 3,088 1,596 3,088	
22				<u>1,859</u> 983 296 <u>1,859</u> 787 591	5 1,596 2,470 1 1,596 1,853	
Wednesday 4am - 5am - 26	· · · · ·		· · · · · ·	1,859 590 887	7 1,596 1,235	5 3,591 358 188 - 10,304 44 9,9
		· · · · · · ·		<u>1,859</u> <u>393</u> <u>1,182</u> - <u>1,859</u> <u>197</u> <u>1,182</u>	2 1,596 618 2 1,929	8         4,256         -         -         358         188         -         10,450         45         10,0-           3,325         1,482         -         358         188         -         10,519         46         10,0-
32	888	· · · · · · ·	· · · · · ·	1,859 - 1,182 1,859 - 887	2 2,261	3,325         1,482         -         358         -         105         10,572         47         10,112           1,995         988         736         -         301         105         10,351         48         10,112
	888 1,554			1,859 - 591	2,926	1,995 988 736 - 301 105 11,941 49 10,34 1,005 000 736 - 201 105 11,941 49 10,34
Waterschy 4an- fam 38	000         1,534         1,776         - <th< td=""><td></td><td></td><td> 1,859 - 296  1,859</td><td>3,059 591</td><td>1,995         988         736         -         301         105         13,783         50         10,67           1,995         988         736         -         301         -         15,743         50         11,10</td></th<>			1,859 - 296 1,859	3,059 591	1,995         988         736         -         301         105         13,783         50         10,67           1,995         988         736         -         301         -         15,743         50         11,10
	888         1,554         1,776         1,998         1,0           888         1,554         1,776         1,998         2.1	,079	· · · · · ·	1,859 - 1,859 -	2,793 887 2,527 1,182	1,995         988         736         -         -         167         16,718         50         11,77           1,995         988         736         -         -         167         17,826         50         12,33
	888         1,554         1,776         1,998         3,2           888         1,554         1,776         1,998         4,3	,237	· · · · ·	1,859	2,261 1,478	1,995 988 736 167 18,935 50 13,1 1,995 988 736 167 20,043 50 13,9
	- 1,554 1,776 1,998 4,3	,316 913		1,859	1,995 1,773	1,995 988 - 627 19,793 48 14,72
52 · · · · · · · · · · · · · · · · · · ·	1,776 1,998 4,3 1,998 4,3	,316 1,826 ,316 2,739	· · · · · ·	1,859 - 1,859	1,995 1,773 1,995 1,773	1,995         988         -         627         -         19,152         48         15,4'           -         2,841         -         627         -         -         18,147         48         16,00
		,316 3,652	· · · · ·	1,859	1,995 1,773	-         2,841         -         627         -         -         17,62         48         16,63           -         2,223         263         -         527         -         17,551         48         17,23
58       -		,237 4,565		1,859	1,995 1,773 1,995 1,773	- 2,223 263 - 527 - 19,327 48 17,8 <sup>-</sup>
Turaday dan - fam 62	1,110         1,942         2,219         -         1,0           1,110         1,942         2,219         2,497         -	,079 6,391 - 7,304		1,859 - 1,859	1,663 2,143 1,330 2,512	-         2,223         263         -         527         -         21,417         48         18,43           -         2,223         263         -         527         -         23,785         48         19,14
	1,110 1,942 2,219 2,497 1,3 1,110 1,942 2,219 2,497 2,6	,349 7,304		1,859	998 2,882	- 2,223 263 293 24,937 48 19,8 - 2,223 263 293 26,323 48 20,53
70	1,110 1,942 2,219 2,497 4,0	,046 7,304		1,859	333 3,325 325	- 2,223 263 293 27,738 48 21,2
72 · · · · · · · · · · · · · · · · · · ·	1,110 1,942 2,219 2,497 5,3 - 1,942 2,219 2,497 5,3	,395 7,304 ,395 8,445		1,859 1,859	- 3,399 650 - 3,103 975	- 2,223 263 293 29,153 48 22,0 - 2,223 - 224 28,883 45 22,7
	2,219 2,497 5,3	,395 9,587		1,859	- 2,808 1,300	- 2,223 - 224 28,112 45 23,5 - 2,223 - 224 27,063 45 24,2
	5,3	,395 11,869		1,859	- 2,217 1,951	- 2,223 - 224 25,737 45 25,0
82 · · · · · · · · · · · · · · · · · · ·	4,0	,046 12,097 996 ,698 12,326 1,992		1,859 1,859	- 2,217 1,951 - 2,217 1,951	- 2,223 188 - 25,576 45 25,67 - 2,223 188 - 25,452 45 26,11
Frday 4gan-6gan 86 · · · · · · · · · · · · · · · · · ·	1,3	,349 12,554 2,988 - 12,782 3,984		1,859	- 2,217 1,951 - 2,217 1,951	- 2,223 188 - 25,327 45 26,50 - 2,223 188 - 25,203 45 26,50
	· · · · ·	- 11,869 3,984 317	· · · · · ·	1,859	- 2,217 1,951	- 2,223 105 24,523 45 25,51
92		- 10,956 3,984 634 - 10,043 3,984 951 -		1,859 - 1,859	- 2,217 1,951 - 1,847 2,357	-         2,223         -         -         105         23,928         45         26,33           -         2,223         -         -         -         105         23,369         45         26,03
96		- 9,130 3,984 1,268 - 9,130 2,988 1,586		<u>1,859</u>	- 1,478 2,763 - 1,108 3,170	-         2,223         -         -         105         22,810         45         25,44           -         2,223         -         -         -         22,063         44         24,93
	· · · · ·	- 9,130 1,992 1,903 - 9,130 996 2,220 -		1,859	- 739 3,576	-         2,223         -         -         -         21,421         44         24,33           -         2,223         -         -         -         20,779         44         23,84
		- 9,130 - 2,537		1,859	4,389	- 2,223 20,137 44 23,31
		- 7,989 1,245 2,537 - 6,848 2,490 2,537		<u>1,859</u>	4,389 - 4,389	-         2,223         -         -         -         20,241         44         22,93           -         2,223         -         -         -         -         20,345         44         22,53
Satuday Gene - Gene 110		- 5,706 3,735 2,537 - 4,565 4,980 2,537		1,859	4,389	-         1,235         420         -         -         19,881         44         22,00           -         1,235         420         -         -         19,985         44         21,66
114		- 3,424 4,980 2,616 179 -		1,859	4,389	- 1,235 420 19,102 44 21,1
		-         2,283         4,980         2,695         179         21           -         1,141         4,980         2,775         179         21		1,859 - 1,859	4,389 - 4,064 456 -	-         1,235         420         -         -         18,255         44         20,69           -         1,235         420         -         -         17,575         44         20,22
120 · · · · · · · · · · · · · · · · · · ·	· · · · · ·	4,980 2,854 179 21 - 3,735 2,933 179 21	5 251 66 5 251 66 54	1,859	<u>3,739</u> 912 - - <u>3,414</u> 1,368 -	-         1,235         420         -         -         16,709         44         19,77           -         1,235         -         358         -         -         15,666         44         19,17
		2,490 3,012 179 21		1,859	3,089 1,824 -	- 1,235 - 358 14,673 44 18,6
128		3,171 179 21	5 251 66 54 42 3	30 18 - 1,859	2,438 2,736 -	- 1,235 - 358 12,651 44 17,3
						-         1,235         -         -         301         -         12,427         44         16,77           -         1,235         -         -         301         -         12,227         44         16,07
Sanday 4gm- 6gm         134         .		3,171	- 66 54 42 3	30 18 36 1,859	2,438 2,280 494 2,438 1,824 988	4 526 - 301 - 11,313 44 15,33
138		2,775 224 -	42 3	30 18 60 1,859	2,438 1,368 1,482	2 526 167 10,988 44 13,99
140       .		1,982 224 26	ig 3 ig 314	30 18 72 1,859 18 84 1,859 -	2,438 912 1,976 2,032 1,026 2,470	
144		1,586 224 26	9 314 82 9 314 82 67	- 96 1,859	<u>1,626</u> <u>1,140</u> <u>2,470</u> - <u>1,219</u> <u>1,710</u> <u>2,470</u>	0 736 167 10,566 44 12,2
148		<u>1,189</u> 224 20	9 314 82 67 52 -	- 72 1,859 157 -	813 2,280 2,470	D 210 448 10,109 42 11,4
150 · · · · · · · · · · · · · · · · · · ·	<u> </u>	396 224 26		37 22 48 1,859 472 -	406 2,850 2,470 3,420 2,470	0 210 448 9,994 42 10,9
		26	9 314 82 67 52 3	37 22 51 1,859 629 -	3,420 2,470 3,420 2,470	0 210 - 376 - 9,859 42 10,69
Monday 4gn - 6gn 158			- 82 67 52 3	37 22 57 1,859 944 -	2,850 3,088	8 210 - 376 - 9,644 42 10,3
160 · · · · · · · · · · · · · · · · · · ·		· · · · · · ·	67 52 3 52 3		2,280 3,705 1,710 4,323	
		· · · · · · · ·				D 179 - 209 9,420 42 9,99 4 532 179 - 209 9,562 42 9,8
168				- 119 1,859 629 473	3 4,570	0 1,064 - 263 - 151 209 9,336 42 9,73
Tanday San					and the second	40



															not of air flo	ows (m³/s)											
Day	Hours	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Thu	21, 22	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	1.9	1.9	1.9	1.9	3.3	3.3	1.9	0.0	0.0	49.1
mu	23, 24	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	1.9	1.9	1.9	1.9	3.3	3.3	1.9	0.0	0.0	49.1
	1, 2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	1.9	1.9	1.9	2.1	3.3	3.3	1.9	0.0	0.0	49.3
	3, 4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	1.9	1.9	2.1	2.1	3.3	3.3	1.9	0.0	0.0	49.5
	5, 6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	1.9	2.1	2.1	2.1	3.3	3.3	0.0	0.0	0.0	47.8
	7, 8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.9	2.1	2.1	2.1	2.1	3.3	3.3	0.0	0.0	0.0	47.9
Fri	9, 10	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.2	1.2	1.2	1.2	1.2	1.2	1.9	2.1	2.1	2.1	2.1	2.1	3.3	3.3	0.0	0.0	0.0	48.1
	11, 12	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.1	2.1	2.1	2.1	2.1	3.3	3.3	0.0	0.0	0.0	48.3
	13, 14	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.0	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.1	2.1	2.1	2.1	2.1	3.3	3.3	0.0	0.0	0.0	48.6
	15, 16	2.8	2.8	2.8	2.8	2.8	2.8	3.0	3.0	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.1	2.1	2.1	2.1	2.1	3.3	3.3	0.0	0.0	0.0	48.8
	17, 18	2.8	2.8	2.8	2.8	2.8	3.0	3.0	3.0	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.1	2.1	2.1	2.1	2.1	3.3	3.3	0.0	0.0	0.0	49.1
	19, 20	2.8	2.8	2.8	2.8	3.0	3.0	3.0	3.0	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.1	2.1	2.1	2.1	2.1	3.3	3.3	0.0	0.0	0.0	49.3
Day	Hours	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	
Thu	21, 22	4.0	2.6	4.0	2.4	4.1	4.7	5.3	4.1	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.4	2.4	2.4	4.1	4.1	6.1	2.4	2.4	TOTAL
	23, 24	2.6	4.0	2.4	4.1	4.7	5.3	4.1	4.1	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.4	2.4	2.4	2.4	4.1	4.1	6.1	2.4	2.4	73.2
	1, 2	4.0	2.4	4.1	4.7	5.3	4.1	4.1	4.1	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.4	2.4	2.4	2.4	2.4	4.1	4.1	6.1	2.4	2.4	74.9
	3, 4	2.4	4.1	4.7	5.3	4.1	4.1	4.1	4.1	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	6.1	2.4	2.4	75.2
	5,6	4.1	4.7	5.3	4.1	4.1	4.1	4.1	3.4	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	5.2	0.0	0.0	70.5
	7,8	4.7	5.3	4.1	4.1	4.1	4.1	3.4	3.4	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	5.2	0.0	0.0	69.8
Fri	9, 10	5.3 4.1	4.1	4.1	4.1 4.1	4.1 3.4	3.4 3.4	3.4 3.4	3.4 3.4	1.5 1.5	1.5 1.5	1.5 1.5	1.5 1.5	1.5 1.5	1.5 1.5	2.4 2.4	2.4 2.4	2.4 2.4	2.4 2.4	2.4 2.4	2.4 2.4	4.1	4.1	5.2 5.2	0.0 0.0	0.0 0.0	68.5 66.7
	11, 12 13, 14	4.1	4.1 4.1	4.1 4.1	3.4	3.4	3.4	3.4	3.4	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	4.4	0.0	0.0	65.2
	15, 14	4.1	4.1	3.4	3.4	3.4	3.4	3.4	3.4	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	4.4	0.0	0.0	63.2 64.6
	13, 10	4.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	4.4	0.0	0.0	64.0
	19, 20	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.5	1.5	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4	2.4	4.1	4.1	4.4	0.0	0.0	63.3
	0u	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	1.5	1.5	1.5	1.5	1.5	1.5	2. 1			2						0.0	0.0	
		Pasturisat	ion (contai	ined)																							
	470		n (conditic	-																							
		Condition	•	0,																							
		Spawn Ru	0																								
	152	Spawn Ru	n 2																								
	43	Cool-dow	n (spawn/s	shipout)																							

									Tunnel	discharges	- Worst-ca	ase 24 hou	r snapshot	of odour e	mission ra	tes (ou.m3	/s)									
Day	Hours	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Thu	21, 22	913	913	913	913	913	913	913	913	138	138	138	138	138	138	296	296	296	296	296	296	494	494	84	0	0
inu	23, 24	913	913	913	913	913	913	913	913	138	138	138	138	138	138	296	296	296	296	296	296	494	494	84	0	0
	1, 2	913	913	913	913	913	913	913	913	138	138	138	138	138	138	296	296	296	296	296	325	494	494	84	0	0
	3, 4	913	913	913	913	913	913	913	913	138	138	138	138	138	138	296	296	296	296	325	325	494	494	84	0	0
	5, 6	913	913	913	913	913	913	913	913	138	138	138	138	138	138	296	296	296	325	325	325	494	494	0	0	0
	7, 8	913	913	913	913	913	913	913	913	138	138	138	138	138	138	296	296	325	325	325	325	494	494	0	0	0
Fri	9, 10	913	913	913	913	913	913	913	913	138	138	138	138	138	138	296	325	325	325	325	325	494	494	0	0	0
FII	11, 12	913	913	913	913	913	913	913	913	138	138	138	138	138	138	325	325	325	325	325	325	494	494	0	0	0
	13, 14	913	913	913	913	913	913	913	996	138	138	138	138	138	138	325	325	325	325	325	325	494	494	0	0	0
	15, 16	913	913	913	913	913	913	996	996	138	138	138	138	138	138	325	325	325	325	325	325	494	494	0	0	0
	17, 18	913	913	913	913	913	996	996	996	138	138	138	138	138	138	325	325	325	325	325	325	494	494	0	0	0
	19, 20	913	913	913	913	996	996	996	996	138	138	138	138	138	138	325	325	325	325	325	325	494	494	0	0	0
							1	1																		
Day	Hours	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Thu	21, 22	0	0	0	1,110	1,942	2,219	2,497	1,349	172	172	172	172	172	172	333	333	333	369	369	369	618	618	263	105	105
	23, 24	0	0	1,110	1,942	2,219	2,497	1,349	1,349	172	172	172	172	172	172	333	333	369	369	369	369	618	618	263	105	105
	1, 2	0	1,110	1,942	2,219	2,497	1,349	1,349	1,349	172	172	172	172	172	172	333	369	369	369	369	369	618	618	263	105	105
	3, 4	1,110	1,942	2,219	2,497	1,349	1,349	1,349	1,349	172	172	172	172	172	172	369	369	369	369	369	369	618	618	263	105	105
	5, 6	1,942			1,349	1,349	1,349	1,349	1,141	172	172	172	172	172	172	369	369	369	369	369	369	618	618	224	0	0
	7, 8	2,219	2,497	1,349	1,349	1,349	1,349	1,141	1,141	172	172	172	172	172	172	369	369	369	369	369	369	618	618	224	0	0
Fri	9, 10	2,497	1,349	1,349	1,349	1,349	1,141	1,141	1,141	172	172	172	172	172	172	369	369	369	369	369	369	618	618	224	0	0
	11, 12	1,349	1,349	1,349	1,349	1,141	1,141	1,141	1,141	172	172	172	172	172	172	369	369	369	369	369	369	618	618	224	0	0
	13, 14	1,349	1,349	1,349	1,141	1,141	1,141	1,141	1,141	172	172	172	172	172	172	369	369	369	369	369	369	618	618	188	0	0
	15, 16	1,349	1,349	1,141	1,141	1,141	1,141	1,141	1,141	172	172	172	172	172	172	369	369	369	369	369	369	618	618	188	0	0
	17, 18	1,349	1,141	1,141	1,141	1,141	1,141	1,141	1,141	172	172	172	172	172	172	369	369	369	369	369	369	618	618	188	0	0
	19, 20	1,141	1,141	1,141	1,141	1,141	1,141	1,141	1,141	172	172	172	172	172	172	369	369	369	369	369	369	618	618	188	0	0
		ou					Day	Hours	TOTAL																	
		0	Pasturisat	ion (conta	ined)		,	21, 22	24,937																	
		470	Cool-dow	•			Thu	23, 24	26,323																	
		332	Condition		10/			1, 2	27,738																	
			Spawn Ru	-				3, 4	29,153																	
			Spawn Run 2 Cool-down (spawn/shipout)				5, 6	28,883																		
							7, 8	28,112																		
							9, 10	27,063																		
							Fri	11, 12	25,737																	
								13, 14	25,576																	
								15, 16	25,452																	
								17, 18	25,327																	
								19, 20	25,203																	
			1		1	1		13,20	20,200		1		1			1										