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Guidance for Assessing and Remediating Vapor Intrusion in Buildings Guidance for Assessing and Remediating Vapor Intrusion in Buildings

Second Floor:

## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (Industries, gas stations, repair shops, landfills, etc), outdoor air sampling tocalion(s) & PID meter readings.

Also indicate compass direction, wind direction & speed during sampling, the locations of the well & septic system, if applicable, & a qualifying statement to help locate the site on a topographic map.

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Guidance for Assessing and Remedialing Vapor Intrusion in Buildings

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## 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:\_\_

List specific products found in the residence that have the potential to affect indoor air quality.

Photo**	Z/X															
Field	Instrument	Reading	(nuifs)													
Chemical Ingredients												Control of the Contro				
Condition*																
Size	(units)						10.00000									
Product	Description								500							
Location										100					and the second s	

\*Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* Photographs of the front & back of the product containers can replace the hand written list of chemical ingredients. However, the photographs must be of good quality & ingredient labels must be legible.

Renews of

Complete this form for each building involved in indoor air testing

Interviewed: Y/N

Last Name: First Name: Address: Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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(esponse)	Commercial/Multi-use	Other:	
Type of Building: (Circle appropriate response)	School	Church	
Type of Building:	Residential	Industrial	

If the property is residential, type? (Circle appropriate response)

Ranch Raised Ranch Cape Cod	2-Family Split Level Contemporary	3-Family Golonial Mobile Home
Duplex	Apartment House	Townhouse/Condos
Modular	Log Home	Other:
If multiple units, how many?	A.A. L. Company	A PARAMETER ANALYSIS
If the property is commercial, type?	Relyely S	S P SS

Business Type(s)

Does it include residences (i.e., multi-use)? ((N), If yes, how many?\_\_\_\_

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns & qualitatively describe:

,	
4/2	
Airflow between floors	

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	BOORS (CAPS BENCHTH)		at apply)	slab other N	stone other	sealed	Sealed OCC.	stone gark	PLASFER.
	200E		iTICS (Circle all tha	crawlspace	dirt	ŧ		block	(sealed)
N.A.	AN OUN IN		ON CHARACTERISTI wood frame	full	concrete	unsealed covered with	unsealed sealed with	poured	unsealed sealed with
Airflow near source	Outdoor air infiltration	Infiltration into air ducts	5. BASEMENT & CONSTRUCTION CHARACTERISTICS (Circle all that apply) a. Above grade construction: wood frame concrete stone	b. Basement type:	c. Basement floor:	d. Basement floor:	e. Concrete floor:	f. Foundation walls:	other g. Foundation walls:

Page E-3

Central air Window units Open windows

Air conditioning:

Guidance for Assessing and Remediating Vapor Intrusion in Buildings	ng Vapor Intrusi	on in Buildings		•	
h. The basement is:	wet	damb	dry maldy	E 7	
i. The basement is:	finished	unfinished	partially finished	4/2	
j. Sump present?	Ż				
k. Water in sump?	) N/Y	not applicable	ĥ.	NO ITO: OTO	
Basement/Lowest level depth below grade:		3-AB Q	S CRADI	SLAB ON CRADE CON SKULT	
Identify potential soil vapor entry points & approximate size (e.g., cracks, utility ports,	ooints & appro	ximate size (e.g	., cracks, utility	ports,	
FLOOR APPEARS WEST	山 3 5		SEALED		
. 6. HEATING. VENTING & AIR CONDITIONING (Circle all that apply)	OITIONING (Cir	cle all that appl	(*		
Type of heating system(s) used in this building: (circle all that apply – note primary)	his building: (	circle all that ap	pply – note prima	ary)	
Hot air circulation	Heat pump Steam radiation	ion	Hot water baseboard Radiant floor	board	
vard	Wood stove	(	Outdoor wood boiler	od boiler  Outor Theo	
\(\times\)		4			
The primary type of tuel used is:					
Natural gas	Fueloil		Kerosene		
Efectric	Propane Coal		Solar		
Domestic hot water tank fueled by:_	2	4	بحث ہ	1	
Boiler/furnace located in:	Basement	Outdoors	Main Floor	/ X/Z	
	Other			\	

Heat Pump None

Are there air distribution ducts present? Y/(W)

Describe the supply & cold air return ductwork & its condition where visible, including whether there is a cold air return & tightness of duct joints. Indicate the locations on the floor plan diagram.

				Occasionally
			¥	Full-time r
		SODAM.		rer occupied? Almost never
V	THE REAL PROPERTY OF THE PROPE		7. OCCUPANCY	Is basement/lowest lever occupied? Seldom Almost r

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4/2	REMEARSAL ROM	4/2	4/2	2
Basement:	1st Floor	2 <sup>nd</sup> Floor	3 <sup>rd</sup> Floor	4 <sup>th</sup> Floor

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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<ul> <li>8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY         \( \text{Y/W} \)         \( \text{Y/W/W/W} \)         \( \text{Y/W/W/W} \)         \( \text{Y/W/W/W} \)         \( Y/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W/W</li></ul>	Y/W Y N NA NA Stored in the garage (c.g.,
lawnmower, ATV, car) YQN Please specify d. Has the building ever had a fire? Y / 6	y / W When
or unvented gas space hea	esent? Y N
Where & Typer f. Is there a workshop or hobby/craft area?	(N/x
Where & Type?	•
g. Is there smoking in the building?	Y (N) Frequency?
h. Have cleaning products been used recently?	Y /(N) When & Type?
Have cosmetic products been used recently?	v (N) When & Type?
j. Has painting/staining been done in the last 6 months?	nonths? Y(N)
Where & When?	A CONTRACTOR OF THE PROPERTY O
k. Is there new carpet, drapes or other textiles?	YN Where & When?
<ol> <li>Have air fresheners been used recently?</li> </ol>	Y (N ) When & Type?
m. Is there a kitchen exhaust fan?	Į.
If yes, where vented?	) (
n. Is there a bathroom exhaust fan?	V N
If yes, where vented?	)
o. Is there a clothes dryer? $Y(N)$ If yes	Y (N) If yes, is it vented outside? - Y TN
<ul> <li>p. Has there been a pesticide application?</li> </ul>	Y (N) When & Type?
Are there odors in the building	
If yes please describe:	

Do any of the building occupants use solvents or volatile chemicals at work? Y (M) (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide applicator, cosmetologist, carpet installer)

If yes, are their clothes washed at work? If yes, what type of solvents are used?

Do any of the building occupants regularly use or work at a dry-cleaning service? (circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

11. FLOOR PLANS

Draw a plan view sketch of the basement & first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the

building does not have a basement, please note.

Basement:

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service

. ON

Unknown

Is there a radon mitigation system for the building/structure?

Is the system active or passive? Active/Passive

9. WATER & SEWAGE

Water Supply: Public water Drilled well Driven well Dug well DA Copy Color.

Sewage Disposal: Public sewer Septic tank Leach field Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry well Dry Wel

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended:

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided & explained to residents?

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Second Floor:

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## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc), outdoor air sampling location(s) & PID meter readings.

Also indicate compass direction, wind direction & speed during sampling, the locabons of the well & septic system, if applicable, & a qualifying statement to holp locate the site on a topographic map.

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# 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: \_\_

List specific products found in the residence that have the potential to affect indoor air quality.

Photo**	N/N				•		and Andrews												
Field	Instrument	Reading	(mins)																
Chemical Ingredients	V65051					arrange data data da arrange da a		Specimental (Figures)	-				en my		- Control of the Cont				
Condition*				The state of the s										*Conserved					
Size	(units)									-									
Product	Description		A CONTRACTOR OF THE CONTRACTOR					and the same of th		Variable and the state of the s	*	100	Of the state of th	- Contract of the Contract of		or demands of the second		Water	
Location		Start.										10000		J. Common					

\*Beseribe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* Riotographs of the front & back of the product containers can replace the hand written list of chemical
ingredients. However, the photographs must be of good quality & ingredient labels must be ligible.

Drewing Rom.

Complete this form for each building involved in indoor air testing

1201	Color	empli -8	Comes rappy: of
reparer's Name: Anne Window Date/Time Prepared:	reparer's Affiliation: FES Work Phone: (バヌ) 1687-11-16人	"urpose of Investigation: I dearth of the sampling	is bearing of potential industries.
reparer's Nam	reparer's Affili	urpose of Inve	. OCCUPANT:

BOOLES & 1. OCCUPANT:

Alternate Phone: First Name: Number of Occupants/persons at this location:\_ Age of Occupants:\_ Interviewed: Y/N Home Phone:\_ Last Name:\_\_ County: Address:\_

2. OWNER OR LANDLORD: (Check if same as occupant\_

/	First Name:		To a state of the	Alternate Phone:
Interviewed: Y/N	Last Name:	Address:	County:	Home Phone:

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

## 3. BUILDING CHARACTERISTICS:

response)	Commercial/Multi-use)	Other:
ropriate	School	Church
Type of Building: (Circle appropriate response)	Residential	Industrial

If the property is residential, type? (Circle appropriate response)

		lome	Townhouse/Condos		Along Loon					ow many2
3-Family	Colonial	Mobile Home	Fowmhor	Other:		•				lf ves. h
2-Family	Split Level	Contemporary	Apartment House	Log Home	- Control - Line - Control		type?		!	Does it include residences (i.e., multi-use)? YeV If yes, how many2
Ranch	Raised Ranch	Cape Cod	Duplex	Modular	If multiple units, how many?		If the property is commercial, type?	Business Type(s)	,	Does it include residence

Building age ORICINAL GASUDDERS Number of floors\_ Other characteristics:

How air tight? Tight (Average Not Tight

Is the building insulated YM?

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns & qualitatively describe:

4	
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Airflow between floors	

			* 20 ×							
			stone (brick ) C.	slab other	stone other	sealed	sealed LINO.	stone	ľ	
***************************************		23	CS (Circle all th	crawispace	dirt		)	plock	**	sealed
₹ 2	m IN IN AL.	ACJON XICTOR	CHARACTERISTICS (Circle & wood frame concrete	full	concrete	unsealed covered with	unsealed sealed with _	poured		unsealed sealed with
Airflow near source	Outdoor air infiltration	Infiltration into air ducts	5. BASEMENT & CONSTRUCTION CHARACTERISTICS (Circle all that apply) a. Above grade construction: wood frame concrete stone (	b. Basement type:	c. Basement floor:	d. Basementfloor:	e. Concrete floor:	f. Foundation walls:	other	g. Foundation walls: uns seal

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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dry moldy	partially finished			CA POSS (feet
damb	unfinished		not-applicat	$\Big) \Big $
wet	finished	N	N Y	Basement/Lowest level depth below grade:
h. The basement is:	i. The basement is:	j. Sump present?	k. Water in sump?	Basement/Lowest lev

Identify potential soil vapor entry points & approximate size (e.g., cracks, utility ports, drains)

6. HEATING, VENTING & AIR CONDITIONING (Circle all that apply)	TIONING (Circ	le all that apply)	
Type of heating system(s) used in this building: (circle all that apply - note primary)	is building: (c	ircle all that appl	ly – note primary)
Hot air circulation	Heat pump	I	Hot water baseboard
Space heaters	Steam radiation		Radiant floor
Electric baseboard	Wood stove	U	Outdoor wood boiler
/ Other			an included a second of the se
CALL CAL	ON THE	NI you	FLOOR, IN CORNER.
The primary type of fuel used is:			
Natural gas	Fuel oil	×	Kerosene
Electric	Propane	S	Solar
Wood	Coal		
Domestic hot water tank fueled by:	323	2000	
Boiler/furnace located in:	Basement	Outdoors	Main Floor
¥/2	Other	•	
Air conditioning:	Central air	Window units Openwindows	)pen-windows

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24

Are there air distribution ducts present? Y / N

Describe the supply & cold air return ductwork & its condition where visible, including whether there is a cold air return & tightness of duct joints. Indicate the locations on the floor plan diagram.

		-	
7. OCCUPANCY			
Is basement/low Seldom	Is basement/lowest lever occupied? Seldom Almost never	Full-time	Occasionally
Level General u storage)	Level General use of each floor (e.g., familyroom, bedroom, laundry, workshop, storage)	ilyroom, bed <u>roon</u>	n, laundry, workshop,
Basement:	***		
1st Floor	DRESSING	BOOM A	DRESSING ROOM FOR THEATRE
2 <sup>nd</sup> Floar	42		m 9 a
3 <sup>rd</sup> Floor	2		de representation contribution of the contribu
4 <sup>th</sup> Floor	4/2		

Page E-5

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

		BARTHER LALLES	FOR	
8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY  a. Is there an attached garage?  b. Does the garage have a separate heating unit?  c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, ATV, car) Y/N Please specify  d. Has the huilding every had a fire?  y. W. When	ace hea	Where & Type?  g. Is there smoking in the building?  y (N) Frequency?  h. Have cleaning products been used recently? (Y) N When & Type? CANALL PATTA CALL I. Have cosmetic products been used recently? (Y) N When & Type?  j. Has painting/staining been done in the last 6 months? Y (N)	& When?	n. Is there a bathroom exhaust fan?  If yes, where vented?  o. Is there a clothes dryer?  y (N) If yes, is treented outside 2 y / N  p. Has there been a pesticide application?  Are there odors in the building

to any of the building occupants use solvents or volatile chemicals at work?

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide applicator, cosmetologist, carpet installer)

If yes please describe:\_

If yes, what type of solvents are used?

If yes, are their clothes washed at work?

Do any of the building occupants regularly use or work at a dry-cleaning service? (circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service

is there a radon mitigation system for the building/structure?	inre	Z)
Date of Installation:		

Is the system active or passive? — Active/Passive

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Public water Drilled well Driven well Dug well Dry well Leach field Public sewer Septic tank Sewage Disposal: Water Supply:

10. RELOCATION INFORMATION (for oil spill residential emergency)

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	easons why relocation is recommended:	
	Provide r	
	ė,	

relocate to friends/family remain in home b. Residents choose to: relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N d. Relocation package provided & explained to residents?

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

#### 11. FLOOR PLANS

sampling locations, possible indoor air pollution sources and PiD meter readings. If the Draw a plan view sketch of the basement & first floor of the building. Indicate air building does not have a basement, please note. Basement:

First Floor:

Guidence for Assessing and Remediating Vapor Intrusion in Buildings

Page E-10

## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) & PID meter readings.

Also indicate compass direction, wind direction & speed during sampling, the locations of the well & septic system, if applicable, & a qualifying statement to holp locate the site on a topographic map.

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Page E-11

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

# 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

List specific products found in the residence that have the potential to affect indoor air quality.

Photo** Y/N																	
Field Instrument	Reading	(units)	- Usinganowa		1888		September 2										
Chemical Ingredients		The state of the s	- Additional														
Condition*						- Committee of the Comm		V.									
Size (units)				P							2000				15 10 (6		
Product Description								, which is	The state of the s			- Water					
Location						200000								100			

\*Beseribe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* Photographs of the front & back of the product containers can replace the hand written list of chemical
ingredients. However, the photographs must be of good quality & ingredient labels must be legible.

Complete this form for each building involved in indoor air testing

Preparer's Name: [11][[1][[]] Preparer's Affiliation:	Preparer's Name: ANN INVINCEDATE/Time Prepared: 25 FS 12-11  Preparer's Affiliation: EES work Phone: Cost 9 GK + 1626  Purpose of Investigation: Edeals fy State of Indian Cost of Investigation: Resident of Indian Science Science Science Interviewed: VN
•	

Interviewed: Y/N	÷
Last Name: First Name:	1
Address:	1
County:	,
Home Phone: Aternate Phone:	ī
Number of Occupants/persons at this location:	ı
Age of Occupants:	1

K is saille as occupalit		First Name:	The second secon		Alternate Phone:
OWNER OR LANDLORD: (CHECK INSAILLE AS OCCUPATION	interviewed: Y/N	Last Name:	Address:	County:	Home Phone:

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

# 3. BUILDING CHARACTERISTICS:

							L ARC
Sommercial/Multi-use	esponse)	3-Family Colonial	Mobile Home Townhouse/Condos Other:		As recent employs	If yes, how many?	Building age CALC. I.A. CASLORES Building age GALC. I.A. CASLORES CALC. Ight Average Not Tight
School Comm School Comm Church Other:	e? (Circle appropriate r	2-Family Spljt Level	Contemporary Apartment House Log Home		De?	(i.e., multi-use)? Y/N	ļ
Type of Building: (Circle appropriate response) Residential School Cor Industrial Other	If the property is cesidential, type? (Circle appropriate response)	Ranch Raised Ranch	Cape Cod Duplex Modular	if multiple units, how many?	If the property is commercial, type? Business Type(s)	Does it include residences (i.e., multi-use)? Y/N	Other characteristics:  Number of floors  Is the building insulated ANP

Use air current tubes or tracer smoke to evaluate airflow patterns & qualitatively 4. AIRFLOW describe:

Airflow between floors

Page E-2

b\_Basement type:

c. Basement-floor:

e. Concrete floor:

other

Heat Pump Mone

Are there air distribution ducts present? Y (N

Describe the supply & cold air return ductwork & its condition where visible, including whether there is a cold air return & tightness of duct joints. Indicate the locations on the floor plan diagram.

The second secon	
	g. Is there smoking in the building?
	h. Have cleaning products been used recently? $(V/N)$ When & Type?
	i. Have cosmetic products been used recently? Y/(N) When & Type?
	j. Has painting/staining been done in the last 6 months? Y(N)
	Where & When?
7. OCCUPANCY	k. Is there new carpet, drapes or other textiles? Y (N) Where & When?
	I. Have air fresheners been used recently? Y/W/When & Type?
Is basement/lowest lever occupied? Full-time Occasionally	m. Is there a kitchen exhaust fan?
Seldom Almost never	
2000	n. Is there a bathroom exhaust fan?
Level General use of each floor (e.g., familyroom, bedroom, laundry, workshop,	If yes, where vented? 2 12 10 10 10 10 10 10 10 10 10 10 10 10 10
storage	o. Is there a clothes dryer? YAN Al yes, is it vented outside? Y/N
	p. Has there been a pesticide application? Y (W / When & Type?
Basement:	Are there odors in the building
	If yes please describe:
1" Floor CAFE	
	Do any of the building occupants use solvents or volatile chemicals at work? Y (N
2 <sup>nd</sup> Floor	(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting,
	fuel oil delivery, boiler mechanic, pesticide applicator, cosmetologist, carpet installer)
3'd Floor	If yes, what type of solvents are used?
	If yes, are their clothes washed at work? Y/N
4 <sup>th</sup> Floor	
	Do any of the building occupants regularly use or work at a dry-cleaning service?
	(circle appropriate response)
	Yes, use dry-cleaning regularly (weekly)

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

c. Are petroleum-powered machines or vehicles stored in the garage (e.g.,

b. Does the garage have a separate heating unit?

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

×

e. Is a kerosene or unvented gas space heater present?

lawnmower, ATV, car) Y/N Please specify d. Has the building ever had a fire?

Y/MWhen

Š

f. Is there a workshop or hobby/craft area?

Where & Type?

Where & Type?

Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service

Unknown

is there a radon mitigation system for the building/structure? YKN

Date of Installation:

Active/Passive Is the system active or passive?

9. WATER & SEWAGE

Public water Water Supply:

Other:

Drilled well Driven well Dug well

Public sewer | Septic tank | Leach field Office: Sewage Disposal:

Dry well

- ASSOCIATED W. SEPERATE TOILETS.

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended:

b. Residents choose to: relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

relocate to friends/family remain in home

d. Relocation package provided & explained to residents?

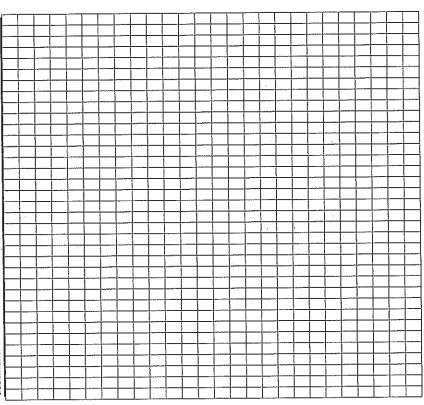
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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

#### 11. FLOOR PLANS

sampling locations, possible indoor air pollution sources and PID meter readings. If the Draw a plan view sketch of the basement & first floor of the building. Indicate air building does not have a basement, please note.

Basement:



Second Floor:

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## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industrice, gas stations, repair stops, landfills, etc), outdoor air sampling location(s) & PID meter readings.

Also indicate compass direction, wind direction & speed during sampling, the locations of the well & septic system, if applicable, & a qualifying statement to holp locate the site on a topographic map.

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

# 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

List specific products found in the residence that have the potential to affect indoor air quality.

Photo** Y/N		-	3	19													004000	
Field Instrument	Reading (units)	en veldelige fallen						200	ab Automotiva et al			12						
Chemical Ingredients				TO THE PARTY OF TH	and the second s										The state of the s	thanswer?		
Candition*														1276				
Size (units)																		
Product Description		- A Company of the Co		S. C.		7.00	O DOSOBE - COLUMNIA			A service of the serv								
Location												-					*0	

\*Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* Photographs of the front & back of the product containers can replace the hand written list of chemical
ingredients. However, the photographis must be of good quality & ingredient labels must he legible.

Sulding 11 - Shale and shap.

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

Complete this form for each building involved in indoor air testing

Preparer's Name: David Tame & Date/Time Prepared: 18 105 12-31 1

Preparer's Affiliation: Eff Switheld sampling Lorahord

1. OCCUPANT:
Interviewed: Y/N

Last Name:

Address:

Address:

Address:

Number of Occupants/persons at this location:

Age of Occupants:

2. OWNER OR LANDLORD: (Check if same as occupant\_\_\_\_\_)

Interviewed: Y/N

Last Name:
Address:
County:
Alternate Phone:

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

# 3. BUILDING CHARACTERISTICS:

ype or bullung: (Lircle appropriate response) Residential School Com	School Comm	rse) Commercial/Multi-use)
Industrial	Church Other:	
If the property is residential, type? (Circle appropriate response)	(Circle appropriate re	sponse)
Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouse/Condos
Modular	Log Home	Other:
If multiple units, how many?	`	
If the property is commercial, type?	5	
Business Type(s)	Comme	/ 5.
Does it include residences (i.e., multi-use)? Y/N	.e., multi-use)? Y/N	If yes, how many?
Other characteristics: Number of floors	Building age	łz
Is the building insulated Y/N?		How air tight? Tight / Average / Not Tight

#### 4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns & qualitatively describe:

Airflow between floors

Page E-1

Identify potential soil vapor entry points & approximate size (e.g., cracks, utility ports, drains) 5. BASEMENT & CONSTRUCTION CHARACTERISTICS (Circle all that apply)

A. Above grade construction: wood frame concrete stone (brick) crawlspace slab other stone other\_ (ealed > sealed stone Guidance for Assessing and Remediating Vapor Intrusion in Buildings péleas block dirt covered with sealed with unsealed concrete unsealed poured full sealed with unsealed Infiltration into air ducts Outdoor air infiltration Airflow near source g. Foundation walls: f. Foundation walls: b. Basement type: c. Basement floor: d. Basement floor: e. Concrete floor: other

Page E-3

Guidance for Assessing and Remedialing Vapor Intrusion in Buildings

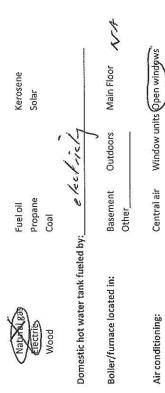
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h. The basement is:	wet	damp	dry	dry moldy	4
i. The basement is:	finished	unfinished	partiall	partially finished	>
j. Sump present?	N/X				
k. Water in sump?	N/X	not applicable	a		
Basement/Lowest level depth below grade:	ow grade:	NA	6	(feet)	22

6. HEATING, VENTING & AIR CONDITIONING (Circle all that apply)

iting system(s) used	Type of neading system(s) used in this bunding, teneral mar apply more primary	nat apply more primer 11
Hot air circulation	Heat pump	Hot water baseboard
pace heaters	Steam radiation	Radiant floor
lectric baseboard	Wood stove	Outdopr wood boiler
Other	No Hearth	lor / cir conditions

The primary type of fuel used is:



Heat Pump None

(A)
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ts present?
quo
distribution
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there
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escribe the supply & cold air return ductwork & its condition where visible, including	
whether there is a cold air return & tightness of duct joints. Indicate the locations on	
he floor plan diagram.	

	Occasionally
	Full-time never
	Is basement/Iowest Iever occupied? Seldom Almost never
7. OCCUPANCY	Is basement/low Seldom

Level General use of each floor (e.g., familyroom, bedroom, laundry, workshop, storage)

100

Basement:

	4900 1		
Storage ana.	7		i i
Work shop			
1 <sup>st</sup> Floor	2 <sup>nd</sup> Floor	3 <sup>rd</sup> Floor	4 <sup>th</sup> Floor

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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8. FACTORS THAT	
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<ul> <li>a. Is there an attached garage?</li> </ul>		<b>€</b>
b. Does the garage have a separate heating unit?	ating unit?	Y/N (NA)
c. Are petroleum-powered machines or vehicles stored in the garage (e.g.,	or vehicles stored in	the garage (e.g.,
lawnmower, ATV, car) Y/N Please specify		
d. Has the building ever had a fire?	Y /(N)>When	
e. Is a kerosene or unvented gas space heater present?	heater present?	<b>Q</b>
Where & Type?	***	2000
f. Is there a workshop or hobby/craft area?	area?	
Where & Type?	î.	
g. Is there smoking in the building?	(M)	Y (N) Frequency?
h. Have cleaning products been used recently?		Y/N When & Type?
i. Have cosmetic products been used recently?		Y/N When & Type?
j. Has painting/staining been done in the last 6 montha	he last 6 months?	N/N
Where & When? MANT BACK STONE COS	Sweeks	1
k. Is there new carpet, drapes of other textiles? $\partial / N$ Where & When?	r textiles? Ø/N	Where & When?
l. Have air fresheners been used recently?		Y/® When & Type?
m. Is there a kitchen exhaust fan?	<b>@</b> /^	
If yes, where vented?		
n. Is there a bathroom exhaust fan?	<b>Q</b> >	
If yes, where vented?		
o. Is there a clothes dryer? Y/4	Y/W If yes, is it vented outside? Y/N	ted outside? Y / N
p. Has there been a pesticide application?	on? Y/D	Y / IÓ When & Type?
Are there odors in the building	<b>Q</b> >	
if yes please describe:		

Do any of the building occupants use solvents or volatile chemicals at work? (§) N (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide applicator, cosmetologist, carpet installer) If yes, what type of solvents are used?

Do any of the building occupants regularly use or work at a dry-cleaning service? (circle appropriate response)
Yes, use dry-cleaning regularly (weekly)

tly (monthly or less)	
use dry-cleaning infrequently (mo	deaning service
Yes, use dry-cleani	Yes, work at a dry-cleaning servic

No Unknown

Z,	
Is there a radon mitigation system for the building/structure?	Date of Installation:

Active/Passive Is the system active or passive?

9. WATER & SEWAGE

Public water Drilled well Driven well Dug well Dry well Leach field Septic tank Public sewer 5 Other: Sewage Disposal: Water Supply:

10. RELOCATION INFORMATION (for oil spill residential emergency)

ended:
is recomm
cation
ny relor
Provide reasons wh
a.

relocate to friends/family remain in home b. Residents choose to: relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided & explained to residents?

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Guidance for Assessing and Remedialing Vapor Intrusion in Buildings

#### 11. FLOOR PLANS

sampling locations, possible indoor air pollution sources and PID meter readings. If the Draw a plan view sketch of the basement & first floor of the building. Indicate air building does not have a basement, please note.

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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Second Floor:

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## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) & PID meter readings.

Also indicate compass direction, wind direction & speed during sampling, the locations of the well & septic system, if applicable, & a qualifying statement to help locate the site on a topographic map.

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

# 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:\_\_

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product	Size	Condition*	Chemical Ingredients	Field	Photo**
	Description	(anits)			Instrument	X/X
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\*Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)
\*\* Photographs of the front & back of the product containers can replace the hand written list of elemical ingredients. However, the photographs must be of good quality & ingredient labels must be legible.

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

Complete this form for each building involved in indoor air testing

Purpose of Investigation: I aleat thy aritable Sampling Coopies & potential indesor sources Preparer's Name: Pavid Tand Spate/Time Prepared: 18/05/2011 Preparer's Affillation: EES Work Phone: 90871666

1. OCCUPANT:

Alternate Phone: First Name: Number of Occupants/persons at this location: Interviewed: Y/N Age of Occupants:\_ Home Phone: Last Name: Address:\_ County:

2. OWNER OR LANDLORQ: (Check if same as occupant\_

	Î	- the second sec		
	First Name:		The state of the s	Alternate Phone:
Interviewed: Y/N	Last Name:	Address:	County:	Home Phone:

Page E-2

Is the building insulated Y/N? How air right? Tight / Average / Not Tight Use air current tubes or tracer smoke to evaluate airflow parterns & qualitatively Townhouse/Condos Does it include residences (i.e., multi-use)? Y/N If yes, how many?\_ permercial/Multi-use Mobile Home 3-Family Colonial y wells only Other: If the property is residential, type? (Circle appropriate response) Guidance for Assessing and Remediating Vapor Intrusion in Buildings Building age Type of Building: (Circle appropriate response) Apartment House Contemporary アシノアノン Split Level Log Home 2-Family Church If the property is commercial, type? 3. BUILDING CHARACTERISTICS: Airflow between floors If multiple units, how many?\_ describe: Mrinny Raised Ranch Residential Industrial Number of floors Cape Cod Modular Business Type(s) Duplex Other characteristics: Ranch 4. AIRFLOW

Hot water baseboard Outdoor wood boiler Identify potential soil vapor entry points & approximate size (e.g., cracks, utility ports, (feet) Type of heating system(s) used in this building: (circle all that apply - note primary) partially finished Central air Window units Open windows moldy Main Floor Kerosene dry 6. HEATING, VENTING & AIR CONDITIONING (Circle all that apply) not applicable unfinished Outdoors damb Steam radiation Wood stove Heat pump Basement Propane finished Basement/Lowest level depth below grade:\_ Fuel oil Other N/Y Coal N/N wet Domestic hot water tank fueled by: ... The primary type of fuel used is: Boiler/furnace located in: Electric baseboard Hot air circulation Space heaters h. The basement is: Natural gas Electric i. The basement is: k. Water in sump? j. Sump present? Air conditioning: Other Wood alow sful ong a g. brick mall crawlspace slab other 14 stone other wood frame concrete stone brick 5. BASEMENT & CONSTRUCTION CHARACTERISTICS (Circle all that apply) sealed stone 1000 sealed block dirt covered with sealed with concrete unsealed unsealed poured 回 sealed with unsealed Infiltration into air ducts a. Above grade construction: Outdoor air infiltration Airflow near source g. Foundation walls: f. Foundation walls: b. Basement type: c. Basement floor: d. Basement floor: e. Concrete floor:

Page E-4

other

Page E-3

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Guidance for Assessing and Remedialing Vapor Intrusion in Buildings

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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Heat Pump None

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Describe the supply & cold air return ductwork & its condition where visible, including whether there is a cold air return & tightness of duct joints. Indicate the locations on the floor-plan diagram.

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	Occasionally	
	Full-time	1
	lever occupied?	Almost never
7. OCCUPANCY	Is basement/lowest lever occupied?	Seldom

Level General use of each floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement:

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1st Floor	2 <sup>nd</sup> Floor	3 <sup>rd</sup> Floor	4 <sup>th</sup> Floor

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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a. Is there an attached garage?		N/N
b. Does the garage have a separate heating unit?		Y/N NA
c. Are petroleum-powered machines or vehicles stored in the garage (e.g.,	stored in	n the garage (e.g.,
lawnmower, ATV, car) Y/N Please specify		
d. Has the building ever had a fire? Y/N	Y/N When	
e. Is a kerosene or unvented gas space heater present?	esent?	N/Y
Where & Type?		
f. Is there a workshop or hobby/craft area?	X/N	
Where & Type?		
g. Is there smoking in the building?	Y/N	Frequency?
h. Have cleaning products been used recently?	Y/N	When & Type?
i. Have cosmetic products been used recently?	Y/N	When & Type?
j. Has painting/staining been done in the last 6 months? $ Y/N $	onths?	Y/N
Where & When?		
k. Is there new carpet, drapes or other textiles?	Y/N	Where & When?
<ol> <li>Have air fresheners been used recently?</li> </ol>	Y/N	When & Type?
m. Is there a kitchen exhaust fan?	V/N	
If yes, where vented?		
n. Is there a bathroom exhaust fan?	N/Y	
If yes, where vented?		
o. Is there a clothes dryer? Y/N If yes,	is it ver	Y/N If yes, is it vented outside? Y/N
p. Has there been a pesticide application?	Y/N	When & Type?
Are there odors in the building	Z/X	
if yes please describe:		

Do any of the building occupants use solvents or volatile chemicals at work? Y (N) (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide applicator, cosmetologist, carpet installer)

If yes, what type of solvents are used?

If yes, are their clothes washed at work?

Y/N

Do any of the building occupants regularly use or work at a dry-cleaning service? (circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
No
Unknown

Is there a radon mitigation system for the building/structure?  $\,$  Y / N

Date of Installation:

Is the system active or passive?

Active/Passive

9. WATER & SEWAGE

Water Supply: Public water Drilled well Driven well Dug well
Other:
Sewage Disposal: Public sewer Septic tank Leach field Dry well
Other:

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended:

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided & explained to residents?

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

#### 11. FLOOR PLANS

Draw a plan view sketch of the basement & first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

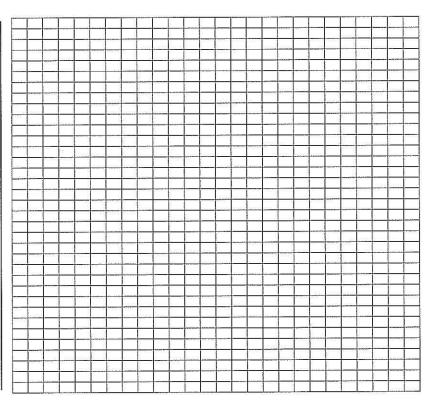
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#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling tocation(s) & PID meter readings.

Also indicate compass direction, wind direction & speed during sampling, the locations of the well & septic system, if applicable, & a qualifying statement to help locate the site on a topographic map.



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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

# 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

List specific products found in the residence that have the potential to affect indoor air quality.

Photo** Y/N						
Field Instrument Reading (natts)						
Chemical Ingredients		The state of the s				
Candition*						
Size (units)						
Product Description						
Location						

\*Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* Photographic of the front & back of the product containers can replace the hand written list of chemical ingredients. However, the photographs must be of good quality & ingredient labels must be legible.

SuthPort Nursing home.

Guidence for Assessing and Remediating Vapor Intrusion in Buildings

Complete this form for each building involved in indoor air testing

Purpose of Investigation: I alentify suitable sampling locations
1. OCCUPANT: Preparer's Name: Davi d (Jumespate/Time Prepared: 18105/20

Alternate Phone: First Name: Number of Occupants/persons at this location Interviewed: Y/N Age of Occupants:\_ Home Phone: Last Name: County:\_\_ Address:

2. OWNER OR LANDIDAD: (Check if same as occupant\_\_

Alternate Phone: First Name: Interviewed: Y/N Home Phone: Last Name: Address:\_\_ County:

Guidance for Assessing and Remediating Vapor Infrusion in Buildings

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Commercial/Multi-use Type of Building: (Circle appropriate response)

Other: old posson Church Industrial

if the property is residential, type? (Circle appropriate response)

Townhouse/Condos Mobile Home 3-Family Colonial Other: Apartment House Contemporary Split Level Log Home 2-Family Raised Ranch Cape Cod Modular Duplex Ranch

If multiple units, how many?

If the property is commercial, type?

Does it include residences (i.e., multi-use)? Y/N If yes, how many?\_

Number of floors Other characteristics:

Building age\_

How air tight? Tight / Average / Not Tight is the building insulated Y/N?

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns & qualitatively describe:

Airflow between floors

Page E-1

Airflow near source

stone other crawlspace (slab) other\_ wood frame concrete stone brick brick 5. BASEMENT & CONSTRUCTION CHARACTERISTICS (Circle all that apply) sealed sealed stone sealed block dir. covered with sealed with unsealed concrete unsealed poured sealed with full unsealed Infiltration into air ducts a. Above grade construction: Outdoor air infiltration g. Foundation walls: f. Foundation walls: d. Basement floor: b. Basement type: c. Basement floor: e. Concrete floor: other

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Identify potential soil vapor entry points & approximate size (e.g., cracks, utility ports, (feet) XX partially finished moldy dry not applicable unfinished damb finished Basement/Lowest level depth below grade:\_ N/Y Y/N wet h. The basement is: i. The basement is: k. Water in sump? j. Sump present?

# 6. HEATING, VENTING & AIR CONDITIONING (Circle all that apply)

Hot water baseboard Outdoor wood boiler Type of heating system(s) used in this building: (circle all that apply - note primary) Radiant floor Looking Steam radiation Wood stove Heat pump The primary type of fuel used is: Electric baseboard (Hot air circulation Other

Kerosene Propane Fuel oil Coal Natural gas Electric Wood

Domestic hot water tank fueled by:\_

Boiler/furnace located in:

Outdoors Basement

Main Floor

Air conditioning:

Central at

Window units Open windows

None Heat Pump

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Are there	

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Describe the supply & cold air return ductwork & its condition where visible, including	whether there is a cold air return & tightness of duct joints. Indicate the locations on	he floor plan diagram.

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		OCCUPANCY

vorkshop	
laundry, w	
edroom,	
familyroom, be	
of each floor (e.g.,	
General use	
Level	

Occasionally

Full-time

Is basement/lowest lever occupied?

storage)	
Basement:	
1st Floor	
2 <sup>rid</sup> Floor	
3 <sup>rd</sup> Floor	A contract of the contract of

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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a. Is there an attached garage?

b. Does the garage have a separate heating unit?

Y/N NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g.,

lawnmower, ATV, car) Y/N Please specify\_

N/X X/N e. Is a kerosene or unvented gas space heater present? d. Has the building ever had a fire? Where & Type?\_

f. Is there a workshop or hobby/craft area? Where & Type?

g. Is there smoking in the building?

h. Have cleaning products been used recently? AN When & Type? Y/N When & Type? i. Have cosmetic products been used recently?

 Has painting/staining been done in the last 6 months? Y/N Where & When?

k. Is there new carpet, drapes or other textiles? Y/N Where & When? Y/N When & Type?\_ I. Have air fresheners been used recently? m. Is there a kitchen exhaust fan? If yes, where vented?

X/N n. Is there a bathroom exhaust fan?

Y/N If yes, is it vented outside? Y/N o. Is there a clothes dryer? If yes, where vented?

Y/N When & Type?\_ p. Has there been a pesticide application? Are there odors in the building

If yes please describe:

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, Do any of the building occupants use solvents or volatile chemicals at work? Y/N fuel oil delivery, boiler mechanic, pesticide applicator, cosmetologist, carpet installer) If yes, what type of solvents are used?

If yes, are their clothes washed at work?

Do any of the building occupants regularly use or work at a dry-cleaning service? (circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
No
Unknown

Is there a radon mitigation system for the building/structure?  $\,\,$  Y / N

Date of Installation:

Is the system active or passive? Active/Passive

9. WATER & SEWAGE

Water Supply: Public water Drilled well Driven well Dug well Other:

Sewage Disposal: Public sewer Septic tank Leach field Other:

Dry weil

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended:

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y/N

d. Relocation package provided & explained to residents?

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

#### 11. FLOOR PLANS

Draw a plan view sketch of the basement & first floor of the building. Indicate air sampling locations, possible Indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

#### Basement:

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#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc), outdoor air sampling location(s) & PID meter readings.

Also indicate compass direction, wind direction & speed during sampling, the locations of the well & septic system, if applicable, & a qualifying statement to help locate the site on a topographic map.

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

### 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

List specific products found in the residence that have the potential to affect indoor air quality.

Pre	Product	Size	Condition*	Chemical Ingredients	Field	Photo**
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\*Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* Photographs of the front & back of the product containers can replace the hand written list of chemical
ingredients. However, the photographs must be of good quality & ingredient labels must be legible.

gate house

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

Complete this form for each building involved in indoor air testing

Preparer's Name: Acre James Date/Time Prepared: 18/05/2011

Preparer's Affiliation: EES Work Phone: 96871666

Purpose of Investigation: Identify switched complexe to beaching.

1. OCCUPANT:

Interviewed: Y/N

First Name:			:	Number of Occupants/persons at this location:	oants:
Last Name:	Address:	County:	Home Phone:	Number of Occup	Age of Occupants:

2. OWNER OR LANDLORD: (Check if same as occupant\_

First Name:			Alternate Phone:
r!N		and the second s	
Interviewed: Y/N Last Name:	Address:	County:	Home Phone:

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## 3. BUILDING CHARACTERISTICS:

	liti-use /	Vacamp	soffe affect			lome	Townhouse/Condos				If yes, how many?		How air tight? Tight / Average / Not Tight
	Commercial/Multi-use		esponse).	3-Family	Colonial	Mobile Home	Townho	Other:			If yes, h		t? Tight/
appropriate response)	School Com	Church Other:	e? (Circle appropriate r	2-Family	Split Level	Contemporary	Apartment House	Log Home	2 stay	)	(i.e., multi-use)? Y/N	(NAZ GAINE.)	
Type of Building: (Circle appropriate response)	Residential	Industrial	If the property is residential, type? (Circle appropriate response)	Ranch	Raised Ranch	Cape Cod	Duplex	Modular	If multiple units, how many?	If the property is commercial, type? Business Type(s)	Does it include residences (i.e., multi-use)? Y/N	Other characteristics:	Is the building insulated Y/N?

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns & qualitatively describe:

Airflow between floors

Identify potential soil vapor entry points & approximate size (e.g., cracks, utility ports, Hot water baseboard Outdoor wood boiler (feet) Type of heating system(s) used in this building: (circle all that apply - note primary) partially finished Central air Window units Open windows moldy Main Floor Kerosene dry 6. HEATING, VENTING & AIR CONDITIONING (Circle all that apply) not applicable Outdoors unfinished damp Steam radiation Wood stove Heat pump Basement Propane Basement/Lowest level depth below grade:\_\_\_ finished **Fuel oil** Other Y/N Coal Y/N wet Domestic hot water tank fueled by:\_ The primary type of fuel used is: Boiler/furnace located in: Electric baseboard Hot air circulation Space heaters h. The basement is: i. The basement is: k. Waterin sump? Naturai gas j. Sump-present? Air conditioning: Electric Other Wood woodfloor boards on stub sealed brick sealed crawlspace slab other  $\mathcal{VA}$ C stone other wood frame concrete stone forick 5. BASEMENT & CONSTRUCTION CHARACTERISTICS (Circle all that apply) sealed sealed stone dirt covered with sealed with concrete unsealed unsealed poured sealed with 티 unsealed Infiltration into air ducts a. Above grade construction: Outdoor air infiltration Airflow near source g. Foundation walls: f. Foundation walls: b. Basement type: c. Basement floor: d. Basement floor: Je.)Concrete floor:

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Guidance for Assessing and Remediating Vapor Intrusion in Buildings

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Dear Fullip Ivolie	Are there air distribution ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present? **/ N Y & S high Venhild ducts present ducts

Describe the supply & cold air return ductwork & its condition where visible, including whether there is a cold air return & tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY		
Is basement/lowest lever occupied? Full-time Seldom Almost never	Occasionally	
Level General use of each floor (e.g., familyroom, bedroom, laundry, workshop, storage)	edroom, laundry, workshop,	
Basement:		
1st Floor Old Show Foary	t y y y	
2 <sup>rd</sup> Floor		
3 <sup>rd</sup> Floor		
4 <sup>th</sup> Floor	The state of the s	

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a. Is there an attached garage?		Š
b. Does the garage have a separate heating unit?	nit?	Y/N NA
c. Are petroleum-powered machines or vehicles stored in the garage (e.g.,	les stored i	n the garage (e.g.,
lawnmower, ATV, car) Y/N Please specify	***************************************	1100,000
d. Has the building ever had a fire? $Y/$	Y/N When	
e. Is a kerosene or unvented gas space heater present?	present?	N/X
Where & Type?		
f. Is there a workshop or hobby/craft area?	N/X	
Where & Type?		
g. Is there smoking in the building?	Y/N	Frequency?
h. Have cleaning products been used recently?	N/X :	When & Type?
i. Have cosmetic products been used recently?	N/X &	When & Type?
j. Has painting/staining been done in the last 6 months? $$ Y $/$ N	6 months?	Y/N
Where & When?		
k. Is there new carpet, drapes or other textiles?	s? Y/N	Where & When?
<ol> <li>Have air fresheners been used recently?</li> </ol>	Y/N	When & Type?
m. Is there a kitchen exhaust fan?	ν/ν	
If yes, where vented?		
n. Is there a bathroom exhaust fan?	N / N	
If yes, where vented?		
o. Is there a clothes dryer? Y/N If y	res, is it ver	If yes, is it vented outside? Y / N
<ul> <li>p. Has there been a pesticide application?</li> </ul>	Y/N	When & Type?
Are there odors in the building	Y/N	
If yes please describe:		

Do any of the building occupants use solvents or volatile chemicals at work? Y/N (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide applicator, cosmetologist, carpet installer) If yes, what type of solvents are used?

Y/N

If yes, are their clothes washed at work?

Do any of the building occupants regularly use or work at a dry-cleaning service? (circle appropriate response)
Yes, use dry-cleaning regularly (weekly)

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service Unknown Is there a radon mitigation system for the building/structure? Y/N

Date of Installation:

WATER & SEWAGE

Guidance for Assessing and Remediating Vapor Intrusion in Buildings

#### 11. FLOOR PLANS

sampling locations, possible indoor air pollution sources and PID meter readings. If the Draw a plan view sketch of the basement & first floor of the building. Indicate air building does not have a basement, please note.

	Basement:
the system active or passive? Active/Passive	
WATER & SEWAGE	
ater Supply: Public water Drilled well Driven well Dug well	
Other:	
wage Disposal: Public sewer Septic tank Leach field Dry well	
Other:	
). RELOCATION INFORMATION (for oil spill residential emergency)	
a. Provide reasons why relocation is recommended:	
<ul> <li>b. Residents choose to: remain in home relocate to friends/family</li> </ul>	
c. Responsibility for costs associated with reimbursement explained? Y / N	
d. Relocation package provided & explained to residents?	
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Second Floor:

First Floor:

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#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) & PID meter readings.

Also indicate compass direction, wind direction & speed during sampling, the locations of the well & septic system, if applicable, & a qualifying statement to help locate the site on a topographic map.

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### 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used:

List specific products found in the residence that have the potential to affect incloor air quality.

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Location				0.0000000000000000000000000000000000000													

<sup>\*</sup>Bescribe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

\*\* Photographs of the froat & back of the product containers can replace the hand written list of chemical
ingredients. However, the photographs must be of good quality & ingredient labels must be legible.



**APPENDIX B** 

LABORATORY TRANSCRIPTS AND CHAIN OF CUSTODY FORMS

AIR CANISTER CHAIN OF CUSTODY

Client Supplied Canister(s)? Y / N

If sourced from an ALS Laboratory, please tick → LT Newcastle: 5 Rosegum Rd. Warabrook NSW 230H PH 02 4968 9433 E samples newcastle:@disensor com Sydney: 277 Woodpark Rd., Smithfield MSW 2176 Ph. 02 8784 8555 E samples sydney@alserwino.com

El Townsville: 14-15 Desma Ct. Bone GED 4818 Ph.07 4796 0600 Eligensselv nencennetalganssens en ि Brishane 1/2 Shand St Statford OLD 405/2 Ph.ए? १/24/3 72/2 E samples.bnsbane@disenviro.com

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ं Perth 10 Hod Way Idaiaga VA (809) मा गी। ९४०७ १५५५ छ samples perhiggalserwro.com

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PROJECT: STA Wells. Caswoves. Project no: 210074 Als Quote no: NE - oc canister request no: Purchase order no:	2100 74 ALS QUOTE NO.: NE COUNTRY OF ORIGIN:	ALS QUOTE NO.: NE	ALS QUOTE NO.: NE - CC COUNTRY OF ORIGIN: ACC	TENO.: NE - CC OF ORIGIN: AUS		-001-11 EES AUSTRALIA.	COC SEQUENCE NUMBER (Gircle)	Valve closed on Receipt? Rec Left Y/W 7 Canister/Sampler Complete and Not Damaged	M NEY'N N/A
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CANISTER / SAMPLE DETAILS			ATING SMLTTP	Y, NO BELLET	S224580	AT IN THE CONT.	Suite Codes must be listed to attract suite price	uite price	
SERIAL NO. CLIENT SAMPLE ID DATE / TIME SAMPLED (eg Air) Dispetch Sampling	CLIENT SAMPLE ID DATE / TIME SAMPLED (eg Air) Dispetch	MATRIX Dispatch (eg Air)	Dispatch	T-Supplied - Profession		Receipt Analysis Dilution (Calc)	TO-14 TO-15 TO-15X	Comments on LC hazards. likely cont requiring specific Q requiring specific Q	Comments on LORs required, potential hazards, likely contaminant levels, or samples requiring specific QC analysis etc., LoR default to restone method LOR after dislates)
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4768 Visual Arts 2 17/03/2011 1-30-6.	17/03/2011 1-30 -1	N N	Ĭ	Ĭ	245	Environmental D	Environmental Division Newcastle		1 hour
4987 Arts & Craft Studio 17/09/2011 -30-17	1-163/2011 1-30-1	- R	1	1		← (→	Order		
472 Ceramic studio 17/03/2011 130	Ceramic studio 17/09/2011	027				14 EN11	EN1101834 X		

Telephone: +61-2-4968 9433

Approved Clota, 0902/2010

Form Page 1 of 1

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4736 Theathe Wishop

288

Job Specific Instructions:

10

FACING COMPANY

Citent Supplied Canister(s)? Y / N

AIR CANISTER CHAIN OF CUSTODY

Sydney 277 Woodpare Pac Smuthfield MSW 2777B

PH. 02 8744 8555 E samples sydney@alsonwing.com

If sourced from an ALS Laboratory; please tick → LI Newcastle: 5 Rosegum Rd. Warabrook NSW 2304

Ph.02 4868 9438 E samples newcastle@alsonwing.com

Efishame 12 Shand St. Shakond OLD 41653
Phyl? 1222 E samples brichane grafserwird.com
L. Townsville, IA-15 Desina Cr. Bolde OLD 4938
Phyl? 4746 0600 E parasyer concorners grafsers.com

 Melbourne 2-4 Westall Rd. Springwie; VIC 317 I. Ph.(13 8549-9600 E. samples, melbourne) galservalo con: Adelaide: 2-1 Burma Rd., Procraka SA 5096
 Ph. 08 8359 0890 E. adelaide@alsenwin.com

🗇 Launceston: 27 W elington St. Launceston TAS 7250 Ph. 03 (২৪) 2.158 E. Jaunceston ট্রিকাডলাপণ্ড কোম i **Perh.** 10 Hod Way, Makaga WA Wikili Ph. 62 3209 7055 E. samples parthgrasseavro com

CLIENT: GONULONNONTONTOR	Month	ENTRY (ARIN SENCE		TURNAROUND REQUIREMENTS:	REQUIREMENTS	:   	Standard TAT (List due date):	ue date):			LABORATORY	LABORATORY USE ONLY (Circle)	Control to the second
OFFICE: MELE	MELBOURNE			(Standard TAT may be extended for multiple sequential analysis sultes)	be extended for mul uites)		Non Standard or urgent TAT (List due date):	nt TAT (List d	ue date):		Custody Seal Intact?	st? RecLa	NEY/N N/A
PROJECT: STM	MELBE	MELB CHSNORKS PROJECT NO:	210034	ALS QUOTE NO.:	: NE-001	11-1	533	ర	C SEQUENCE	COC SEQUENCE NUMBER (Circle)	Valve closed on I	Valve closed on Receipt? Rec Leb Y.M.	NEY'N N'A
CANISTER REQUEST NO:	NO:	PURCHASE ORDER NO.:	2	COUNTRY OF ORIGIN:	4	asTreacia	4	2000	1 (2)	4 5 6	7 Canister/Sampler	Canister/Sampler Complete, and Not Damaged	% (%)
PROJECT MANAGER:		ALNE WILLIAM	CONTACT PH:	H: OHOZ	37 8 B	ため		0F: 1	1 (2) 3	4 5 6	7 Other comment:		)
SAMPLER:		*>	SAMPLER MOBILE:	(OBILE:	· >>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	RELINGUISHED BY:	2 R	RELINGUISHED BY:	TADOMS WE WE CO.	RELINQUISHED BY:	RELINGU	RELINQUISHED BY:
COC Emailed to ALS? (YES / NO)	( YES / NO)		EDD FORM.	EDD FORMAT (or default):		د	がジール	22 Carlo Carlon	いってい	NOT Was Marin		Signature and dates firms	Signature and demostrate
Email Reports to (will d	efault to PM if no	Email Reports to (will default to PM if no other addresses are listed): $arphi$ $\omega$	awhireup Resibil	651. 10.2		8	RECEIVED BY: 16/7	/ 2/ RE	REGENER BY	T M X	RECEIVED BY:	RECEIVED BY	3 BY:
Email Invoice to (will de	sfault to PM if no	Email Invoice to (will default to PM if no other addresses are listed):	-			in	Wellings 10	5 . SCAL	かず	Contract and standard		Signature and datedrine	Squalue and data lime
COMMENTS/SPECIAL	HANDLING/REF	COMMENTS/SPECIAL HANDLING/REPLACEMENT OR RETURN INSTRUCTIONS:	TIONS: COUCTE	NE	18	11 GES			-			90,000	1 × × × × × × × × × × × × × × × × × × ×
	GAS SAM	GAS SAMPLE CONTAINER INFORMATION	MATION		Canister Gz	Canister Gauge Pressures (PSI)	s (PSI)		ANAL	ANALYSIS REQUIRED	ED	Additional Information	formation
Ais bag only		CANISTER / SAMPLE DETAILS	DETAILS	ATHER SERVICES		4	ALS USE ONLY	Suit	e Codes mus	Suite Codes must be listed to attract suite price	suite price	4	8
LABID	SERIAL NO.	CLIENT SAMPLE ID	DATE / TIME SAMPLED	MATRIX Dispatch (eg Air)	Post Sampling	Receipt	Analysis Dilution (Calc)	TO-14	TO-15 TO	TO-15X		Comments on LORs required, potential hazards, likely contaminant levels, or samples requiring specific QC analysis etc., i.o.k adeuts or course method LOR after disbook.	equired, potential int levels, or samples lysis etc. (LOR defeuts to after disabon)
7	1865	Background.	17/02/2011 Air	Air -30	4	4						X / 80m	3
<u>s</u>	4483	Renerad Room 17/07/201	17/07/201	1 -30	-9	8-			1	(X		)	
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Job Specific Instructions:	tions:												

Approved Data 00002/2010





# **Environmental Division**

# **CERTIFICATE OF ANALYSIS**

Work Order	: EN1101834	Page	: 1 of 23
Client	ENVIRONMENTAL EARTH SCIENCES	Laboratory	: Environmental Division Newcastle
Contact	: MS ANNE WHINCUP	Contact	: Peter Keyte
Address	: P.O.BOX 2253	Address	: 5 Rosegum Road Warabrook NSW Australia 2304
	FOOTSCRAY VIC, AUSTRALIA 3011		
E-mail	: awhincup@eesi.biz	E-mail	: peter.keyte@als.com.au
Telephone	: +61 03 9687 1666	Telephone	: 61-2-4968-9433
Facsimile	: +61 03 9687 1844	Facsimile	: +61-2-4968 0349
Project	: STH MELBOURNE GASWORKS	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number			
C-O-C number		Date Samples Received	: 21-JUL-2011
Sampler	: ANNE WHINCUP	Issue Date	: 28-JUL-2011
Site			
		No. of samples received	: 16
Quote number	1	No. of samples analysed	: 16

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
  - Analytical Results
- Surrogate Control Limits

#### NATA Accredited Laboratory 825

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11. Signatories This document is issued in accordance with NATA

Peter Keyte

Accreditation Category

Newcastle

Newcastle Manager

Position

accreditation requirements. WORLD RECOGNISED
ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

5 Rosegum Road Warabrook NSW Australia 2304

Tel. +61-2-4968 9433 Fax. +61-2-4968 0349 www.alsglobal.com **Environmental Division Newcastle** Part of the ALS Laboratory Group A Campbell Brothers Limited Company

#### General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insuffient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Key:

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

- EP101: Results reported in µg/m³ are calculated from PPBV results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa. µg/m³ results should be corrected to account for actual conditions during sampling.
  - EP101: Sample canisters were received at sub-ambient pressures and required dilution in the laboratory prior to analysis. LOR values have been adjusted accordingly. •





: 3 of 23 : EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS

Page Work Order Client Project

Sub-Matrix. AIR		Clie	Client sample ID	4989	4780	4982	47.48	4974
				DRESSING ROOM	THEATRE	OFFICE/ADMIN	DUPLICATE	VISUAL ARTS 1
	Clie	int samplin	Client sampling date / time	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-001	EN1101834-002	EN1101834-003	EN1101834-004	EN1101834-005
USEPA Air Toxics Method TO15r								
Freon 12	75-71-8	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<b>1.1</b> >
Chloromethane	74-87-3	0.5	vdqq	<1.3	<1.2	<1.3	<1.3	<1.1
Freon 114	76-14-2	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
Vinyl chloride	75-01-4	0.5	hdpd	<1.3	<1.2	<1.3	<1.3	<1.1
Bromomethane	74-83-9	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
Chloroethane	75-00-3	0.5	vdqqq	<1.3	<1.2	<1.3	<1.3	1.1>
Freon 11	75-69-4	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<b>1.1</b> >
1.1-Dichloroethene	75-35-4	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<b>1.1</b> >
Dichloromethane	75-09-2	0.5	vdqq	<1.3	<1.2	<1.3	<1.3	9.9
Freon 113	76-13-1	0.5	vdqq	<1.3	<1.2	<1.3	<1.3	<1.1
1.1-Dichloroethane	75-34-3	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
cis-1.2-Dichloroethene	156-59-2	0.5	vdqq	<1.3	<1.2	<1.3	<1.3	<1.1
Chloroform	67-66-3	0.5	hdpd	<1.3	<1.2	<1.3	<1.3	<1.1
1.2-Dichloroethane	107-06-2	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
1.1.1-Trichloroethane	71-55-6	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
Benzene	71-43-2	0.5	vdqq	<1.3	<1.2	<1.3	3.2	<1.1
Carbon Tetrachloride	56-23-5	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
1.2-Dichloropropane	78-87-5	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
Trichloroethene	79-01-6	0.5	hdpd	<1.3	<1.2	<1.3	<1.3	<1.1
cis-1.3-Dichloropropylene	10061-01-5	0.5	hpby	<1.3	<1.2	<1.3	<1.3	<1.1
trans-1.3-Dichloropropene	10061-02-6	0.5	vddd	<1.3	<1.2	<1.3	<1.3	<1.1
1.1.2-Trichloroethane	2-00-62	0.5	hddd	<1.3	<1.2	<1.3	<1.3	<1.1
Toluene	108-88-3	0.5	nqdd	<1.3	2.1	<1.3	24.2	13.4
1.2-Dibromoethane (EDB)	106-93-4	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
Tetrachloroethene	127-18-4	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
Chlorobenzene	108-90-7	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<1.1
Ethylbenzene	100-41-4	0.5	nqdd	<1.3	<1.2	<1.3	1.7	<1.1
meta- & para-Xylene	108-38-3 106-42-3	1.0	nqdd	<2.5	<2.4	<2.6	7.1	4.6
Styrene	100-42-5	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<1.1
1.1.2.2-Tetrachloroethane	79-34-5	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
ortho-Xylene	95-47-6	0.5	nqdd	<1.3	<1.2	<1.3	2.2	1.9
4-Ethyltoluene	-	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
1.3.5-Trimethylbenzene	108-67-8	0.5	hdpd	<1.3	<1.2	<1.3	<1.3	<1.1
1.2.4-Trimethylbenzene	95-63-6	0.5	vddd	<1.3	<1.2	<1.3	<1.3	<1.1
1.3-Dichlorobenzene	541-73-1	0.5	hdpd	<1.3	<1.2	<1.3	<1.3	×1.1
Benzylchloride	100-44-7	0.5	vddd	<1.3	<1.2	<1.3	<1.3	<1.1
1.4-Dichlorobenzene	106-46-7	0.5	hpbv	<1.3	<1.2	<1.3	<1.3	<1.1





: 4 of 23 : EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS

Page Work Order Client Project

DRESSING ROOM   THEATRE   OFFI   DRESSING ROOM   THEATRE   OFFI   DRESSING ROOM   TAJUL-201115.00	Sub-Matrix: AIR		Ö	Client sample ID	4989	4780	4982	4748	4974
Color Sampling date / time   T7-UL-2011 15:00   T7-UL-2011 15:00     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Toxicis Matiod TOISr Continued   GS-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0-1   O.5   ppbv   <1.3   <1.2     All Continued Hame   GS-S0-S0					DRESSING ROOM	THEATRE	OFFICE/ADMIN	DUPLICATE	VISUAL ARTS 1
Action   A		Clie	ent sampli.	ing date / time	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00
AliT Toxics Method Totis - Conditueed         96-50-1         0.5         ppbw         <1.3	Compound	CAS Number	LOR	Unit	EN1101834-001	EN1101834-002	EN1101834-003	EN1101834-004	EN1101834-005
Page 2019   0.5   ppbw   c1.3   c1.2	USEPA Air Toxics Method TO15r - Conti	inued							
12-82-1   0.5   ppbv   c1.3   c1.2	1.2-Dichlorobenzene		0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<b>1.1</b> >
No.   Part of the part of th	1.2.4-Trichlorobenzene	120-82-1	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
Page   Page	Hexachlorobutadiene	87-68-3	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
1,2,27.4   0.5   ppbv   c1.3   c1.2	Acetone	67-64-1	0.5	nddd	<1.3	16.6	<1.3	<1.3	<1.1
	Bromodichloromethane	75-27-4	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<1.1
Second Part   Second Part	1.3-Butadiene	106-99-0	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<1.1
Section   Sect	Carbon disulfide	75-15-0	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<1.1
2-propene (Ally)         (1.5   ppbw         <1.3	2-Chlorotoluene	95-49-8	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<b>1.1</b> >
rane         124-48-1         0.5         ppbw         <1.3	1-Chloro-2-propene (Allyl chloride)	107-05-1	0.5	ngdd	<1.3	<1.2	<.1.3	<1.3	<u>1.1</u>
childromethane         124-48-1         0.5         ppbv         <1.3	Cyclohexane	-	0.5	ngdd	<1.3	<1.2	<1.3	5.2	1.5
123-91-1   0.5   ppbv   <1.3   <1.2	Dibromochloromethane	124-48-1	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	3.8
tate         9002-89-5         0.5         ppby         <1.3	1.4-Dioxane	123-91-1	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	×1.1
156.60-5   0.5   ppbv   <1.3   <1.2     142.82-5   0.5   ppbv   <1.3   <1.2     142.82-5   0.5   ppbv   <1.3   <1.2     142.82-6   0.5   ppbv   <1.3   <1.2     142.82-6   0.5   ppbv   <1.3   <1.2     156.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     158.80-1   0.5   ppbv   <1.3   <1.2     168.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.80-1   0.5   ppbv   <1.3   <1.2     169.	Ethylacetate	9002-89-5	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<1.1>
142-82-5   0.5   ppbv   <1.3   <1.2	trans-1.2-Dichloroethene	156-60-5	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
0.5 ppbv 7.2 <b>5.1</b> 0.6 ppbv <-1.3 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2 <-1.2	Heptane	142-82-5	0.5	vdqq	<1.3	<1.2	<1.3	<1.3	<1.1
0.5 ppbv <1.3 <1.2  <1.2    67-63-0 0.5 ppbv <1.3 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.3 <1.2 <1.2 <1.3 <1.2 <1.2 <1.2 <1.3 <1.2 <1.2 <1.3 <1.2 <1.2 <1.3 <1.2 <1.2 <1.3 <1.2 <1.2 <1.3 <1.2 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.3 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.2 <1.3 <1.3 <1.2 <1.3 <1.3 <1.2 <1.3 <1.3 <1.3 <1.2 <1.3 <1.3 <1.2 <1.3 <1.3 <1.3 <1.2 <1.3 <1.2 <1.3 <1.3 <1.3 <1.3 <1.3 <1.3 <1.3 <1.3	Hexane		0.5	hdpd	7.2	5.1	<1.3	21.4	5.4
67-63-0 0.5 ppbv <1.3 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2	Isooctane	-	0.5	vdqq	<1.3	<1.2	<1.3	<1.3	<1.1
78-93-3       0.5       ppbv       <1.3	Isopropyl Alcohol	67-63-0	0.5	hpbv	<1.3	<1.2	<1.3	<1.3	<1.1
108-10-1     0.5     ppbv     <1.3     <1.2       591-78-6     0.5     ppbv     2.1     2.1       1634-044     0.5     ppbv     <1.3     <1.2       109-99-9     0.5     ppbv     <1.3     <1.2       108-05-4     0.5     ppbv     <1.3     <1.2       108-05-4     0.5     ppbv     <1.3     <1.2       593-60-2     0.5     ppbv     <1.3     <1.2       64-70-5     0.5     ppbv     <1.3     <1.2       107-02-8     0.5     ppbv     <1.3     <1.2       107-13-1     0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2        0.5     ppbv     <1.3     <1.2 <t< th=""><th>2-Butanone (MEK)</th><th>78-93-3</th><th>0.5</th><th>hpbv</th><th>&lt;1.3</th><th>&lt;1.2</th><th>&lt;1.3</th><th>&lt;1.3</th><th>&lt;1.1</th></t<>	2-Butanone (MEK)	78-93-3	0.5	hpbv	<1.3	<1.2	<1.3	<1.3	<1.1
591-78-6       0.5       ppbv       2.1       2.1         115-07-1       0.5       ppbv       4.13       4.12         108-99-9       0.5       ppbv       4.13       4.12         108-05-4       0.5       ppbv       4.13       4.12         593-60-2       0.5       ppbv       4.13       4.12         64-70-5       0.5       ppbv       4.13       4.12         75-05-8       0.5       ppbv       4.13       4.12         107-02-8       0.5       ppbv       4.13       4.12         107-13-1       0.5       ppbv       4.13       4.12         107-13-1       0.5       ppbv       4.13       4.12          0.5       ppbv       4.13       4.12          0.5       ppbv       4.13       4.12          0.5       ppbv       4.13       4.12          0.5       ppbv       4.13       4.12          0.5       ppbv       4.13       4.12          0.5       ppbv       4.13       4.12          0.5       ppbv       4.13       4.12	Methyl iso-Butyl ketone	108-10-1	0.5	hdpd	<1.3	<1.2	<1.3	<1.3	<1.1
115-07-1         0.5         ppbv         2.1         2.1           1634-044         0.5         ppbv         <1.3         <1.2           109-99-9         0.5         ppbv         <1.3         <1.2           108-05-4         0.5         ppbv         <1.3         <1.2           593-60-2         0.5         ppbv         <1.3         <1.2           64-70-5         0.5         ppbv         <1.3         <1.2           107-02-8         0.5         ppbv         <1.3         <1.2           107-13-1         0.5         ppbv         <1.3         <1.2           75-65-0         0.5         ppbv         <1.3         <1.2           107-13-1         0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3 <th>2-Hexanone (MBK)</th> <th>591-78-6</th> <th>0.5</th> <th>nddd</th> <th>&lt;1.3</th> <th>&lt;1.2</th> <th>&lt;1.3</th> <th>&lt;1.3</th> <th>&lt;1.1</th>	2-Hexanone (MBK)	591-78-6	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
1634-044   0.5   ppbv   <1.3   <1.2     109-99-9   0.5   ppbv   <1.3   <1.2     108-05-4   0.5   ppbv   <1.3   <1.2     108-05-4   0.5   ppbv   <1.3   <1.2     593-60-2   0.5   ppbv   <1.3   <1.2     64-70-5   0.5   ppbv   <1.3   <1.2     75-05-8   0.5   ppbv   <1.3   <1.2     107-13-1   0.5   ppbv   <1.3   <1.2     107-13-1   0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2       0.5   ppbv   <1.3   <1.2	Propene	115-07-1	0.5	hpbv	2.1	2.1	<1.3	5.4	5.6
109-99-9         0.5         ppbv         <1.3         <1.2           75-25-2         0.5         ppbv         <1.3         <1.2           108-05-4         0.5         ppbv         <1.3         <1.2           593-60-2         0.5         ppbv         <1.3         <1.2           64-70-5         0.5         ppbv         <1.3         <1.2           107-02-8         0.5         ppbv         <1.3         <1.2           107-13-1         0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3 <td< th=""><th>Methyl tert-Butyl Ether (MTBE)</th><th>1634-04-4</th><th>0.5</th><th>hdpv</th><th>&lt;1.3</th><th>&lt;1.2</th><th>&lt;1.3</th><th>&lt;1.3</th><th>&lt;1.1</th></td<>	Methyl tert-Butyl Ether (MTBE)	1634-04-4	0.5	hdpv	<1.3	<1.2	<1.3	<1.3	<1.1
75-26-2         0.5         ppbv         <1.3         <1.2           108-05-4         0.5         ppbv         <1.3         <1.2           593-60-2         0.5         ppbv         90.2         59.7           64-70-5         0.5         ppbv         <1.3         <1.2           107-02-8         0.5         ppbv         <1.3         <1.2           107-13-1         0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2	Tetrahydrofuran	109-99-9	0.5	hpbv	<1.3	<1.2	<1.3	<1.3	<1.1
108-05-4         0.5         ppbv         <1.3         <1.2           593-60-2         0.5         ppbv         <1.3         <1.2           64-70-5         0.5         ppbv         <1.3         <1.2           107-02-8         0.5         ppbv         <1.3         <1.2           107-13-1         0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2 <th>Bromoform</th> <th>75-25-2</th> <th>0.5</th> <th>hpbv</th> <th>&lt;1.3</th> <th>&lt;1.2</th> <th>&lt;1.3</th> <th>&lt;1.3</th> <th>×1.1</th>	Bromoform	75-25-2	0.5	hpbv	<1.3	<1.2	<1.3	<1.3	×1.1
593-60-2         0.5         ppbv         \$0.2         \$9.7           64-70-5         0.5         ppbv         \$1.3         \$1.2           75-05-8         0.5         ppbv         \$1.3         \$1.2           107-02-8         0.5         ppbv         \$1.3         \$1.2           75-65-0         0.5         ppbv         \$1.3         \$1.2            0.5         ppbv         \$1.3         \$1.2           637-92-3         0.5         ppbv         \$1.3         \$1.2           694-05-8         0.5         ppbv         \$1.3         \$1.2           637-92-3         0.5         ppbv         \$1.3         \$1.2           694-05-8         0.5         ppbv         \$1.3         \$1.2	Vinyl Acetate	108-05-4	0.5	hdpd	<1.3	<1.2	<1.3	<1.3	<1.1
64-70-5         0.5         ppbv         90.2         59.7           75-05-8         0.5         ppbv         <1.3         <1.2           107-02-8         0.5         ppbv         <1.3         <1.2           75-65-0         0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2           637-92-3         0.5         ppbv         <1.3         <1.2           694-05-8         0.5         ppbv         <1.3         <1.2           994-05-8         0.5         ppbv         <1.3         <1.2	Vinyl bromide	593-60-2	0.5	nddd	<1.3	<1.2	<1.3	<1.3	×1.1
75-05-8         0.5         ppbv         <1.3         <1.2           107-02-8         0.5         ppbv         <1.3         <1.2           107-13-1         0.5         ppbv         <1.3         <1.2           75-65-0         0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2           637-92-3         0.5         ppbv         <1.3         <1.2           994-05-8         0.5         ppbv         <1.3         <1.2	Ethanol	64-70-5	0.5	hpbv	90.2	59.7	13.1	14.0	1570
107-02-8         0.5         ppbv         <1.3         <1.2           107-13-1         0.5         ppbv         <1.3         <1.2           75-65-0         0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2           637-92-3         0.5         ppbv         <1.3         <1.2           994-05-8         0.5         ppbv         <1.3         <1.2	Acetonitrile	75-05-8	0.5	nddd	<1.3	<1.2	<1.3	×1.3	×1.1
107-13-1         0.5         ppbv         <1.3         <1.2           75-65-0         0.5         ppbv         <1.3         <1.2            0.5         ppbv         <1.3         <1.2           637-92-3         0.5         ppbv         <1.3         <1.2           694-05-8         0.5         ppbv         <1.3         <1.2	Acrolein	107-02-8	0.5	nddd	<1.3	<1.2	<1.3	<1.3	× 1.1
75-65-0         0.5         ppbv         <1.3	Acrylonitrile	107-13-1	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
0.5 ppbv <1.3 <1.2	tert-Butyl alcohol	75-65-0	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
637-92-3 0.5 ppbv <1.3 <1.2 (1.2 ppbv 637-92-8 0.5 ppbv <1.3 <1.2 (1.2 ppbv 637-92-8 0.5 ppbv <1.3 <1.2 (1.2 ppbv 637-92-9 0.5 ppbv 637-92	2-Chloro-1.3-butadiene	-	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
637-92-3 0.5 ppbv <1.3 <1.2 994-05-8 0.5 ppbv <1.3 <1.2	Di-isopropyl Ether	-	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
994-05-8 0.5 ppbv <1.3 <1.2	Ethyl tert-Butyl Ether (ETBE)	637-92-3	0.5	nddd	<1.3	<1.2	<1.3	<1.3	<1.1
1::	tert-Amyl Methyl Ether (TAME)	994-05-8	0.5	hpbv	<1.3	<1.2	<1.3	<1.3	<1.1



Page Work Order Project Client

: 5 of 23 : EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS

•								
Sub-Matrix: AIR		Clie	Client sample ID	4989	4780	4982	4748	4974
	Clie	ent samplir	Client sampling date / time	DRESSING ROOM 17-JUL-2011 15:00	THEATRE 17-JUL-2011 15:00	<b>OFFICE/ADMIN</b> 17-JUL-2011 15:00	<b>DUPLICATE</b> 17-JUL-2011 15:00	VISUAL ARTS 1 17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-001	EN1101834-002	EN1101834-003	EN1101834-004	EN1101834-005
USEPA Air Toxics Method TO15r - Continued								
Methyl Methacrylate	80-62-6	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
1.1.2-Tetrachloroethane	630-20-6	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1>
Isopropylbenzene	98-82-8	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
n-Propylbenzene	103-65-1	0.5	ngdd	<1.3	<1.2	<1.3	<1.3	<1.1
tert-Butylbenzene	9-90-86	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
sec-Butylbenzene	135-98-8	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
2-isopropyltoluene	-	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
n-Butylbenzene	104-51-8	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
Naphthalene	91-20-3	0.5	nqdd	<1.3	<1.2	<1.3	<1.3	<1.1
USEPA Air Toxics Method TO15r (Mass/Volume	lume)							
^ Freon 12	75-71-8	2.5	m/grl	<6.4	<6.1	<6.4	<6.5	<5.3
^ Chloromethane	74-87-3	1.0	m/g/m³	<2.5	<2.4	<2.6	<2.6	<2.1
^ Freon 114	76-14-2	3.5	mg/m³	<8.9	<8.6	<9.0	<9.2	<7.5
^ Vinyl chloride	75-01-4	1.3	m/g/m³	<3.3	<3.2	<3.3	<3.4	<2.8
^ Bromomethane	74-83-9	1.9	hg/m³	<4.8	<4.7	<4.9	<5.0	<4.0
^ Chloroethane	75-00-3	1.3	hg/m³	<3.3	<3.2	<3.3	<3.4	<2.8
^ Freon 11	75-69-4	2.8	hg/m³	<7.1	<6.9	<7.2	<7.3	<6.0
^ 1.1-Dichloroethene	75-35-4	2.0	hg/m³	<5.1	<4.9	<5.1	<5.2	<4.3
^ Dichloromethane	75-09-2	1.7	hg/m³	<4.3	<4.2	<4.4	<4.4	23.0
^ Freon 113	76-13-1	3.8	hg/m³	<9.7	<9.3	<9.7	6.6>	<8.1
^ 1.1-Dichloroethane	75-34-3	2.0	hg/m³	<5.1	<4.9	<5.1	<5.2	<4.3
^ cis-1.2-Dichloroethene	156-59-2	2.0	hg/m³	<5.1	<4.9	<5.1	<5.2	<4.3
^ Chloroform	67-66-3	2.4	hg/m³	<6.1	<5.9	<6.2	<6.3	<5.1
^ 1.2-Dichloroethane	107-06-2	2.0	hg/m³	<5.1	<4.9	<5.1	<5.2	<4.3
^ 1.1.1-Trichloroethane	71-55-6	2.7	hg/m³	<6.9	9.9>	6.9>	<7.0	<5.8
^ Benzene	71-43-2	1.6	hg/m³	<4.1	<3.9	<4.1	10.2	<3.4
^ Carbon Tetrachloride	56-23-5	3.1	hg/m³	<7.9	<7.6	<7.9	<8.1	9.9>
^ 1.2-Dichloropropane	78-87-5	2.3	hg/m³	<5.8	<5.6	<5.9	<6.0	<4.9
^ Trichloroethene	79-01-6	2.7	hg/m³	<6.9	9.9>	<6.9	<7.0	<5.8
^ cis-1.3-Dichloropropylene	10061-01-5	2.3	hg/m³	<5.8	<5.6	<5.9	<6.0	<4.9
^ trans-1.3-Dichloropropene	10061-02-6	2.3	hg/m³	<5.8	<5.6	<5.9	<6.0	<4.9
^ 1.1.2-Trichloroethane	2-00-62	2.7	hg/m³	<6.9	9.9>	<6.9	<7.0	<5.8
^ Toluene	108-88-3	1.9	hg/m³	<4.8	7.9	<4.9	606	50.3
^ 1.2-Dibromoethane (EDB)	106-93-4	3.8	hg/m³	<9.7	<9.3	<9.7	<9.9	<8.1
^ Tetrachloroethene	127-18-4	3.4	hg/m³	<8.6	<8.3	<8.7	<8.9	<7.2
^ Chlorobenzene	108-90-7	2.3	hg/m³	<5.8	<5.6	<5.9	<6.0	<4.9
^ Ethylbenzene	100-41-4	2.2	hg/m³	<5.6	<5.4	<5.6	7.3	<4.7



Page Work Order Project Client

Analytical Results

: 6 of 23 : EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS

oub-iviatiix: Aik				DRESSING ROOM	THFATRF	OFFICE/ADMIN	DIIDI ICATE	VISUAL ARTS 1
	Cli	Client sampling date / time	r date / time	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-001	EN1101834-002	EN1101834-003	EN1101834-004	EN1101834-005
USEPA Air Toxics Method TO15r (Mass/Volume) - Continued	(Mass/Volume) - Continu	pa						
^ meta- & para-Xylene	108-38-3 106-42-3	4.3	hg/m³	<10.9	<10.6	<11.0	30.8	19.8
^ Styrene	100-42-5	2.1	mg/m³	<5.3	<5.2	<5.4	<5.5	<4.5
^ 1.1.2.2-Tetrachloroethane	79-34-5	3.4	mg/m³	<8.6	<8.3	<8.7	6.8>	<7.2
^ ortho-Xylene	95-47-6	2.2	mg/m³	<5.6	<5.4	<5.6	9.4	8.4
^ 4-Ethyltoluene	1	2.5	hg/m³	<6.4	<6.1	4.9>	<6.5	<5.3
^ 1.3.5-Trimethylbenzene	108-67-8	2.5	hg/m³	<6.4	<6.1	<6.4	<6.5	<5.3
^ 1.2.4-Trimethylbenzene	95-63-6	2.5	hg/m³	<6.4	<6.1	4.9>	<6.5	<5.3
^ 1.3-Dichlorobenzene	541-73-1	3.0	hg/m³	<7.6	<7.4	7.7>	<7.8	<6.4
^ Benzylchloride	100-44-7	2.6	mg/m³	9.9>	<6.4	<6.7	<6.8	<5.5
^ 1.4-Dichlorobenzene	106-46-7	3.0	mg/m³	<7.6	<7.4	7.7>	<7.8	<6.4
^ 1.2-Dichlorobenzene	95-50-1	3.0	mg/m³	<7.6	<7.4	7.7>	<7.8	<6.4
^ 1.2.4-Trichlorobenzene	120-82-1	3.7	hg/m³	<9.4	<9.1	<9.5	<9.7	<7.9
^ Hexachlorobutadiene	87-68-3	5.3	hg/m³	<13.5	<13.0	<13.6	<13.8	<11.3
^ Acetone	67-64-1	1.2	mg/m³	<3.0	39.3	<3.1	<3.1	<2.6
^ Bromodichloromethane	75-27-4	3.4	mg/m³	<8.6	<8.3	<8.7	6.8>	<7.2
^ 1.3-Butadiene	106-99-0	<del>-</del> -	hg/m³	<2.8	<2.7	<2.8	<2.9	<2.3
^ Carbon disulfide	75-15-0	9.1	hg/m³	<4.1	<3.9	<4.1	<4.2	<3.4
^ 2-Chlorotoluene	92-49-8	5.6	hg/m³	9.9>	<6.4	<6.7	<6.8	<5.5
^ 1-Chloro-2-propene (Allyl chloride)	107-05-1	1.6	m/grl	<4.1	<3.9	c4.1	<4.2	×3.4
^ Cyclohexane	-	1.7	hg/m³	<4.3	<4.2	4.4>	18.0	5.1
^ Dibromochloromethane	124-48-1	4.3	mg/m³	<10.9	<10.6	<11.0	<11.2	32.2
^ 1.4-Dioxane	123-91-1	1.8	hg/m³	<4.6	4.4	<4.6	<4.7	<3.8
^ Ethylacetate	9002-89-5	1.8	mg/m³	<4.6	4.4	<4.6	<4.7	<3.8
^ trans-1.2-Dichloroethene	156-60-5	2.0	hg/m³	<5.1	<4.9	<5.1	<5.2	<4.3
^ Heptane	142-82-5	2.0	hg/m³	<5.1	<4.9	<5.1	<5.2	<4.3
^ Hexane	-	1.8	hg/m³	25.4	18.0	<4.6	75.3	19.0
^ Isooctane	-	2.3	hg/m³	<5.8	<5.6	<5.9	<6.0	<4.9
^ Isopropyl Alcohol	0-63-0	1.2	hg/m³	<3.0	<2.9	<3.1	<3.1	<2.6
^ 2-Butanone (MEK)	78-93-3	1.5	mg/m³	<3.8	<3.7	<3.8	<3.9	<3.2
^ Methyl iso-Butyl ketone	108-10-1	2.0	mg/m³	<5.1	<4.9	<5.1	<5.2	<4.3
^ 2-Hexanone (MBK)	591-78-6	2.0	mg/m³	<5.1	<4.9	<5.1	<5.2	<4.3
^ Propene	115-07-1	6.0	hg/m³	3.7	3.6	<2.3	9.3	9.6
^ Methyl tert-Butyl Ether (MTBE)	1634-04-4	1.8	hg/m³	<4.6	4.4	<4.6	<4.7	<3.8
^ Tetrahydrofuran	109-99-9	1.5	hg/m³	<3.8	<3.7	<3.8	<3.9	<3.2
^ Bromoform	75-25-2	5.2	hg/m³	<13.2	<12.8	<13.3	<13.6	<11.1
A Vinyl Acotato	100 06 1	α	/203	971		•	1.	





ENVIRONMENTAL EARTH SCIENCES STH MELBOURNE GASWORKS EN1101834 7 of 23 Work Order

#### Analytical Results

Project Client

17-JUL-2011 15:00 **VISUAL ARTS 1** EN1101834-005 <4.5 <4.5 <4.5 <4.5 <7.2 <5.8 <2.3 <3.2 <5.3 <5.3 <5.8 <5.8 107 17-JUL-2011 15:00 EN1101834-004 DUPLICATE <2.9 <5.5 6.8 <7.0 <5.5 <5.5 <6.5 <3.9 <4.7 <5.5 <6.5 <7.0 <2.1 104 17-JUL-2011 15:00 OFFICE/ADMIN EN1101834-003 <3.8 <5.4 <8.7 6.9> 6.9 <5.4 <5.4 <5.4 <6.4 4.9> 101 17-JUL-2011 15:00 EN1101834-002 THEATRE 4780 <5.2 8.3 8.3 <2.7 4.4 <5.2 <5.2 9.9> 9.9> <3.7 <5.2 <6.1 <6.4 **6.1** 102 **DRESSING ROOM** 17-JUL-2011 15:00 EN1101834-001 <5.3 <5.3 <5.3 <5.3 48.6 6 **4.9** <6.4 <6.9 102 Client sample ID Client sampling date / time hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ Chit % LOR 7. <del>1</del>.8 2.5 2.5 2.1 2.1 3.4 2.7 0.1 2.1 2.1 2.7 USEPA Air Toxics Method TO15r (Mass/Volume) - Continued 460-00-4 91-20-3 80-62-6 593-60-2 CAS Number 64-70-5 75-05-8 107-02-8 107-13-1 75-65-0 637-92-3 994-05-8 630-20-6 98-82-8 103-65-1 9-90-86 135-98-8 104-51-8 **USEPA Air Toxics Method TO15r Surrogates** ^ tert-Amyl Methyl Ether (TAME) ^ Ethyl tert-Butyl Ether (ETBE) ^ 1.1.1.2-Tetrachloroethane ^ 2-Chloro-1.3-butadiene 4-Bromofluorobenzene Methyl Methacrylate ^ 2-isopropyltoluene A Di-isopropyl Ether A Isopropylbenzene ^ tert-Butylbenzene ^ sec-Butylbenzene ^ tert-Butyl alcohol ^ n-Propylbenzene ^ n-Butylbenzene Vinyl bromide Naphthalene Sub-Matrix: AIR Acrylonitrile Acetonitrile Compound ^ Acrolein ^ Ethanol



: 8 of 23 : EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS Page Work Order Project Client

Sub-Matrix: AIP		Ö	Client sample ID	4077	4777	4760	4100	4007
				SCULPTURE STUDIO	SPNH - BEDROOM	SPNH - COMMUNAL	VISUAL ARTS 2	ARTS & CRAFT STUDIO
	Cli	ent sampli	Client sampling date / time	17-JUL-2011 15:00	18-JUL-2011 15:00	18-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-006	EN1101834-007	EN1101834-008	EN1101834-009	EN1101834-010
USEPA Air Toxics Method TO15r								
Freon 12	75-71-8	0.5	ngdd	<1.2	<1.6	<1.1	<1.2	<1.2
Chloromethane	74-87-3	0.5	vdqq	<1.2	<1.6	<1.1>	<1.2	<1.2
Freon 114	76-14-2	0.5	ngdd	<1.2	<1.6	1.1>	<1.2	<1.2
Vinyl chloride	75-01-4	0.5	nddd	<1.2	<1.6	1.1	<1.2	<1.2
Bromomethane	74-83-9	0.5	ngdd	<1.2	<1.6	1.1>	<1.2	<1.2
Chloroethane	75-00-3	0.5	ngdd	<1.2	<1.6	<1.1	<1.2	<1.2
Freon 11	75-69-4	0.5	ngdd	<1.2	<1.6	1.1>	<1.2	<1.2
1.1-Dichloroethene	75-35-4	0.5	ngdd	<1.2	<1.6	<1.1	<1.2	<1.2
Dichloromethane	75-09-2	0.5	ngdd	<1.2	<1.6	<1.1	<1.2	<1.2
Freon 113	76-13-1	0.5	ngdd	<1.2	<1.6	1.1>	<1.2	<1.2
1.1-Dichloroethane	75-34-3	0.5	vdqq	<1.2	<1.6	1.12	<1.2	<1.2
cis-1.2-Dichloroethene	156-59-2	0.5	vdqq	<1.2	<1.6	1.1>	<1.2	<1.2
Chloroform	67-66-3	0.5	nqdd	<1.2	<1.6	1.1>	<1.2	<1.2
1.2-Dichloroethane	107-06-2	0.5	vdqq	<1.2	<1.6	1.1>	<1.2	<1.2
1.1.1-Trichloroethane	71-55-6	0.5	vdqq	<1.2	<1.6	1.1>	<1.2	<1.2
Benzene	71-43-2	0.5	nqdd	3.0	<1.6	1.1	<1.2	<1.2
Carbon Tetrachloride	56-23-5	0.5	nddd	<1.2	<1.6	1.1>	<1.2	<1.2
1.2-Dichloropropane	78-87-5	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
Trichloroethene	79-01-6	0.5	nqdd	<1.2	<1.6	1.1	<1.2	<1.2
cis-1.3-Dichloropropylene	10061-01-5	0.5	nddd	<1.2	<1.6	1.1>	<1.2	<1.2
trans-1.3-Dichloropropene	10061-02-6	0.5	nqdd	<1.2	<1.6	1.1	<1.2	<1.2
1.1.2-Trichloroethane	2-00-62	0.5	ngdd	<1.2	<1.6	1.1>	<1.2	<1.2
Toluene	108-88-3	0.5	nqdd	22.8	3.6	7.0	10.0	1.6
1.2-Dibromoethane (EDB)	106-93-4	0.5	nqdd	<1.2	<1.6	1.1	<1.2	<1.2
Tetrachloroethene	127-18-4	0.5	nqdd	<1.2	<1.6	1.1>	<1.2	<1.2
Chlorobenzene	108-90-7	0.5	nqdd	<1.2	<1.6	1.1>	<1.2	<1.2
Ethylbenzene	100-41-4	0.5	nddd	1.5	<1.6	<1.1	<1.2	<1.2
meta- & para-Xylene	108-38-3 106-42-3	1.0	nddd	0.9	<3.1	<2.2	<2.4	<2.5
Styrene	100-42-5	0.5	nddd	<1.2	<1.6	1.1	<1.2	<1.2
1.1.2.2-Tetrachloroethane	79-34-5	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
ortho-Xylene	92-47-6	0.5	nqdd	2.1	<1.6	1.1	<1.2	<1.2
4-Ethyltoluene	-	0.5	nqdd	<1.2	<1.6	1.1>	<1.2	<1.2
1.3.5-Trimethylbenzene	108-67-8	0.5	vdqq	<1.2	<1.6	<1.1	<1.2	<1.2
1.2.4-Trimethylbenzene	92-63-6	0.5	nqdd	<1.2	<1.6	1.1	<1.2	<1.2
1.3-Dichlorobenzene	541-73-1	0.5	hpbv	<1.2	<1.6	<1.1	<1.2	<1.2
Benzylchloride	100-44-7	0.5	nddd	<1.2	<1.6	×1.1	<1.2	<1.2



Page Work Order Project Client

Analytical Results

: 9 of 23 : EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS

			!					
Sub-Matrix: <b>AIR</b>		Š	Client sample ID	4977 SCULPTURE STUDIO	4777 SPNH - BEDROOM	4760 SPNH - COMMUNAL	4768 VISUAL ARTS 2	4987 ARTS & CRAFT STUDIO
	CI	ent samplir	Client sampling date / time	17-JUL-2011 15:00	18-JUL-2011 15:00	18-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-006	EN1101834-007	EN1101834-008	EN1101834-009	EN1101834-010
USEPA Air Toxics Method TO15r - Continued	inued							
1.4-Dichlorobenzene	106-46-7	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
1.2-Dichlorobenzene	95-50-1	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
1.2.4-Trichlorobenzene	120-82-1	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
Hexachlorobutadiene	87-68-3	0.5	nddd	<1.2	<1.6	1.1>	<1.2	<1.2
Acetone	67-64-1	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
Bromodichloromethane	75-27-4	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
1.3-Butadiene	106-99-0	0.5	nqdd	<1.2	<1.6	<1.1>	<1.2	<1.2
Carbon disulfide	75-15-0	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
2-Chlorotoluene	95-49-8	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
1-Chloro-2-propene (Allyl	107-05-1	0.5	ngdd	<1.2	<1.6	×1.1	<1.2	<1.2
Cyclohexane	-	0.5	vddd	4.2	2.4	4.3	<1.2	<1.2
Dibromochloromethane	124-48-1	0.5	nddd	<1.2	<1.6	<b>1.1</b> >	<1.2	<1.2
1.4-Dioxane	123-91-1	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
Ethylacetate	9002-89-5	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
trans-1.2-Dichloroethene	156-60-5	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
Heptane	142-82-5	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
Hexane	1	0.5	nqdd	17.6	30.9	74.7	8.2	6.4
Isooctane	-	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
Isopropyl Alcohol	67-63-0	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
2-Butanone (MEK)	78-93-3	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2
Methyl iso-Butyl ketone	108-10-1	0.5	nddd	<1.2	<1.6	×1.1	<1.2	<1.2
2-Hexanone (MBK)	591-78-6	0.5	nqdd	<1.2	<1.6	×1.1	<1.2	<1.2
Propene	115-07-1	0.5	nddd	5.1	5.4	6.2	3.0	2.6
Methyl tert-Butyl Ether (MTBE)	1634-04-4	0.5	nddd	<1.2	<1.6	×1.1	<1.2	<1.2
Tetrahydrofuran	109-99-9	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
Bromoform	75-25-2	0.5	nqdd	<1.2	<1.6	1.1	<1.2	<1.2
Vinyl Acetate	108-05-4	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
Vinyl bromide	593-60-2	0.5	nqdd	<1.2	<1.6	<1.1>	<1.2	<1.2
Ethanol	64-70-5	0.5	nqdd	13.1	177	265	<1.2	<1.2
Acetonitrile	75-05-8	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
Acrolein	107-02-8	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
Acrylonitrile	107-13-1	0.5	nddd	<1.2	<1.6	<1.1	<1.2	<1.2
tert-Butyl alcohol	75-65-0	0.5	nqdd	<1.2	<1.6	<1.1>	<1.2	<1.2
2-Chloro-1.3-butadiene	-	0.5	nddd	<1.2	<1.6	×1.1	<1.2	<1.2
Di-is opropyl Ethor	-	0.5	nqdd	<1.2	<1.6	<1.1	<1.2	<1.2

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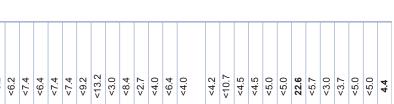
 Client
 : ENVIRONMEN

 Project
 : STH MELBOUF

: EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS

#### Analytical Results

17-JUL-2011 15:00 **ARTS & CRAFT** EN1101834-010 STUDIO <1.2 <7.0 <5.0 <6.0 <5.0 ×1.2 <1.2 <5.0 <4.2 4.6> <5.0 <4.0 <8.7 <4.7 <6.7 <7.7> <5.7 <6.7 <5.7 <5.7 <6.7 <9.4 6.1 **VISUAL ARTS 2** 17-JUL-2011 15:00 EN1101834-009 <1.2 <1.2 6.4 9.7> <1.2 1.2 <1.2 <1.2 ۲ ا 8.9 <9.3 <4.9 4.9 <5.9 9.9> <3.9 <5.6 9.9> 9.9> <5.6 SPNH - COMMUNAL 18-JUL-2011 15:00 EN1101834-008 <3.7 <5.2 <3.5 <u>7</u> <u>^</u> <u>7</u> **6.1** 4.4 **6**8.3 4.4 4.4 4.4 <5.9 <6.8 <5.0 <5.9 <5.0 <5.9 **6**8.3 <u>7</u> <u>^</u> <u>7</u> SPNH - BEDROOM 18-JUL-2011 15:00 EN1101834-007 <11.0 <11.9 41.6 <7.5 <1.6 ×1.6 4.6 ×1.6 × 1.6 <5.3 <6.3 <6.3 <5.0 48.4 4777 ×1.6 ×1.6 <3.1 1 <5.9 8.8 8.8 <6.3 <6.3 48.4 <9.7 <7.2 <7.2 4.1 4.8 SCULPTURE STUDIO 17-JUL-2011 15:00 EN1101834-006 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 4977 **~**1.2 <1.2 <1.2 43.1 <3.1 9.9> <4.7 <9.0 <4.7 <4.7 <5.7 <4.7 <6.4 4.7> <5.4 <6.4 8. <5.4 Client sample ID Client sampling date / time hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hpbv nqdd hpbv hpbv nqdd vddd hpbv hg/m³ vddd Cnit LOR 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 3.5 1.3 2.8 0.5 0.5 0.5 <del>د</del>. 2.0 3.8 2.0 2.0 2.4 2.0 2.7 1.6 ب 1. 2.3 75-71-8 75-00-3 75-69-4 75-35-4 76-13-1 75-34-3 67-66-3 56-23-5 75-01-4 10061-01-5 CAS Number 637-92-3 994-05-8 80-62-6 630-20-6 98-82-8 103-65-1 9-90-86 135-98-8 104-51-8 91-20-3 74-83-9 75-09-2 156-59-2 107-06-2 71-55-6 71-43-2 78-87-5 79-01-6 0061-02-6 79-00-5 108-88-3 106-93-4 **USEPA Air Toxics Method TO15r (Mass/Volume) USEPA Air Toxics Method TO15r - Continued** tert-Amyl Methyl Ether (TAME) Ethyl tert-Butyl Ether (ETBE) ^ trans-1.3-Dichloropropene ^ cis-1.3-Dichloropropylene 1.2-Dibromoethane (EDB) 1.1.1.2-Tetrachloroethane A cis-1.2-Dichloroethene ^ 1.1.2-Trichloroethane ^ 1.1.1-Trichloroethane Carbon Tetrachloride ^ 1.2-Dichloropropane ^ 1.1-Dichloroethane ^ 1.2-Dichloroethane 1.1-Dichloroethene Methyl Methacrylate Dichloromethane 2-isopropyltoluene Isopropylbenzene tert-Butylbenzene sec-Butylbenzene A Trichloroethene n-Propylbenzene Chloromethane Bromomethane n-Butylbenzene Vinyl chloride ^ Chloroethane Sub-Matrix: AIR Naphthalene A Chloroform ^ Freon 114 ^ Freon 113 ^ Freon 12 ^ Freon 11 ^ Benzene Compound



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Analytical Results

Project Client

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Page Work Order

Sub-Matrix: AIR		Clie	Client sample ID	4977	4777	4760	4768	4987
				SCULPTURE STUDIO	SPNH - BEDROOM	SPNH - COMMUNAL	VISUAL ARTS 2	ARTS & CRAFT STUDIO
	Cli	ent samplin	Client sampling date / time	17-JUL-2011 15:00	18-JUL-2011 15:00	18-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-006	EN1101834-007	EN1101834-008	EN1101834-009	EN1101834-010
USEPA Air Toxics Method TO15r (Mass/Volume) - Continued	Aass/Volume) - Continu	pa						
^ Tetrachloroethene	127-18-4	3.4	m/grl	<8.1	<10.6	4.7>	<8.3	<8.4
^ Chlorobenzene	108-90-7	2.3	m/g/m³	<5.4	<7.2	<5.0	<5.6	<5.7
^ Ethylbenzene	100-41-4	2.2	m/g/m³	6.5	6.9>	8.42	<5.4	<5.5
^ meta- & para-Xylene	108-38-3 106-42-3	4.3	m/g/m³	26.2	<13.5	4.6>	<10.5	<10.7
^ Styrene	100-42-5	2.1	hg/m³	<5.0	9.9>	<4.6	<5.1	<5.2
^ 1.1.2.2-Tetrachloroethane	79-34-5	3.4	m/g/m³	<8.1	<10.6	4.7>	<8.3	<8.4
^ ortho-Xylene	95-47-6	2.2	m/g/m³	9.2	<6.9	<4.8	<5.4	<5.5
^ 4-Ethyltoluene	1	2.5	hg/m³	<5.9	<7.8	<5.4	<6.1	<6.2
^ 1.3.5-Trimethylbenzene	108-67-8	2.5	m/g/m³	<5.9	<7.8	<5.4	<6.1	<6.2
^ 1.2.4-Trimethylbenzene	92-63-6	2.5	m/g/m³	<5.9	<7.8	<5.4	<6.1	<6.2
^ 1.3-Dichlorobenzene	541-73-1	3.0	m/g/m³	<7.1	<9.4	<6.5	<7.3	4.7>
^ Benzylchloride	100-44-7	2.6	hg/m³	<6.2	<8.1	<5.7	<6.4	<6.4
^ 1.4-Dichlorobenzene	106-46-7	3.0	hg/m³	<7.1	<9.4	<6.5	<7.3	<7.4
^ 1.2-Dichlorobenzene	95-50-1	3.0	hg/m³	<7.1	<9.4	<6.5	<7.3	<7.4
^ 1.2.4-Trichlorobenzene	120-82-1	3.7	hg/m³	<8.8	<11.6	<8.1	<9.0	<9.2
^ Hexachlorobutadiene	87-68-3	5.3	m/g/m³	<12.6	<16.6	<11.5	<13.0	<13.2
^ Acetone	67-64-1	1.2	hg/m³	<2.8	<3.8	<2.6	<2.9	<3.0
^ Bromodichloromethane	75-27-4	3.4	hg/m³	<8.1	<10.6	<7.4	<8.3	<8.4
^ 1.3-Butadiene	106-99-0	<del>[</del> .	hg/m³	<2.6	<3.4	<2.4	<2.7	<2.7
^ Carbon disulfide	75-15-0	1.6	hg/m³	<3.8	<5.0	<3.5	<3.9	<4.0
^ 2-Chlorotoluene	92-49-8	5.6	hg/m³	<6.2	<8.1	<5.7	4.9>	<6.4
^ 1-Chloro-2-propene (Allyl	107-05-1	1.6	mg/m³	<3.8	<5.0	<3.5	<3.9	<4.0
cnioride)		17	IIU/m³	146	82	14.9	<4.2	<4.2
^ Dibromochloromethane	124-48-1	4.3	m/brl	<10.2	<13.5	<9.4	<10.5	<10.7
^ 1.4-Dioxane	123-91-1	1.8	mg/m³	<4.3	<5.6	<3.9	<4.4	<4.5
^ Ethylacetate	9002-89-5	1.8	m/g/m³	<4.3	<5.6	<3.9	4.4	<4.5
^ trans-1.2-Dichloroethene	156-60-5	2.0	hg/m³	<4.7	<6.3	4.4>	<4.9	<5.0
^ Heptane	142-82-5	2.0	hg/m³	<4.7	<6.3	<4.4	<4.9	<5.0
^ Hexane	-	1.8	hg/m³	62.0	109	263	28.7	22.6
^ Isooctane		2.3	hg/m³	<5.4	<7.2	<5.0	<5.6	<5.7
^ Isopropyl Alcohol	0-63-0	1.2	hg/m³	<2.8	<3.8	<2.6	<2.9	<3.0
^ 2-Butanone (MEK)	78-93-3	1.5	hg/m³	<3.6	<4.7	<3.3	<3.7	<3.7
^ Methyl iso-Butyl ketone	108-10-1	2.0	hg/m³	<4.7	<6.3	<4.4	<4.9	<5.0
^ 2-Hexanone (MBK)	591-78-6	2.0	hg/m³	<4.7	<6.3	<4.4	<4.9	<5.0
^ Propene	115-07-1	6.0	hg/m³	8.7	9.3	10.7	5.2	4.4





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Sub-Matrix: AIR		Clier	Client sample ID	4977 SCULPTURE STUDIO	4777 SPNH - BEDROOM	4760 SPNH - COMMUNAL	4768 VISUAL ARTS 2	4987 ARTS & CRAFT	
	Š		7 7 7 7 7	24 4 4 7 00 00 00 00 00 00 00 00 00 00 00 00 0	00.77	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17	STUDIO 47 11 2044 4F:00	
	Cle	nt sampling	Client sampling date / time	17-301-2011 19:00	18-201-2011 15:00	18-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-ZU11 15:00	
Compound	CAS Number	LOR	Unit	EN1101834-006	EN1101834-007	EN1101834-008	EN1101834-009	EN1101834-010	
USEPA Air Toxics Method TO15r (Mass/Volume) - Continued	າe) - Continue	P							
^ Methyl tert-Butyl Ether (MTBE)	1634-04-4	1.8	hg/m³	<4.3	<5.6	<3.9	4.4>	<4.5	
^ Tetrahydrofuran	109-99-9	1.5	m/grl	<3.6	<4.7	<3.3	<3.7	<3.7	
^ Bromoform	75-25-2	5.2	m/brl	<12.3	<16.3	<11.3	<12.7	<12.9	
^ Vinyl Acetate	108-05-4	1.8	m/brl	<4.3	<5.6	<3.9	4.4	<4.5	
^ Vinyl bromide	593-60-2	2.2	m/bd	<5.2	<6.9	<4.8	<5.4	<5.5	
^ Ethanol	64-70-5	6.0	m/bd	24.7	333	500	<2.2	<2.2	
^ Acetonitrile	75-05-8	8.0	m/brl	<1.9	<2.5	<1.7	<2.0	<2.0	
^ Acrolein	107-02-8	1.1	m/bd	<2.6	<3.4	<2.4	<2.7	<2.7	
^ Acrylonitrile	107-13-1	1.1	m/grl	<2.6	<3.4	<2.4	<2.7	<2.7	
^ tert-Butyl alcohol	75-65-0	1.5	m/brl	<3.6	<4.7	<3.3	<3.7	<3.7	
^ 2-Chloro-1.3-butadiene	1	1.8	m/grl	<4.3	<5.6	<3.9	4.4>	<4.5	
^ Di-isopropyl Ether	-	2.1	m/bd	<5.0	<6.6	<4.6	<5.1	<5.2	
^ Ethyl tert-Butyl Ether (ETBE)	637-92-3	2.1	m/grl	<5.0	<6.6	<4.6	<5.1	<5.2	
^ tert-Amyl Methyl Ether (TAME)	994-02-8	2.1	m/grl	<5.0	<6.6	<4.6	<5.1	<5.2	
^ Methyl Methacrylate	80-62-6	2.1	m/grl	<5.0	<6.6	<4.6	<5.1	<5.2	
^ 1.1.1.2-Tetrachloroethane	630-20-6	3.4	m/grl	<8.1	<10.6	4.7>	<8.3	<8.4	
^ Isopropylbenzene	98-82-8	2.5	m/brl	<5.9	<7.8	<5.4	<6.1	<6.2	
^ n-Propylbenzene	103-65-1	2.5	m/bd	<5.9	<7.8	<5.4	<6.1	<6.2	
^ tert-Butylbenzene	9-90-86	2.7	m/grl	<6.4	<8.4	<5.9	9.9>	<6.7	
^ sec-Butylbenzene	135-98-8	2.7	m/brl	<6.4	<8.4	<5.9	9:9>	<6.7	
^ 2-isopropyltoluene	-	2.7	hg/m³	<6.4	<8.4	<5.9	9.9>	<6.7	
^ n-Butylbenzene	104-51-8	2.7	hg/m³	<6.4	<8.4	<5.9	9.9>	<6.7	
^ Naphthalene	91-20-3	2.6	hg/m³	<6.2	<8.1	<5.7	<6.4	<6.4	
USEPA Air Toxics Method TO15r Surrogates									
4-Bromofluorobenzene	460-00-4	0.1	%	104	106	104	98.5	90.7	



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Page Work Order

#### Analytical Results

Project Client

Sub-Matrix: AIR		Clie	Client sample ID	4772	4736	4985	4981	4983
	Cli	ent samplin	Client sampling date / time	17-JUL-2011 15:00	17-JUL-2011 15:00	<b>CAFE</b> 17-JUL-2011 15:00	<b>BACKGROUND</b> 17-JUL-2011 15:00	17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-011	EN1101834-012	EN1101834-013	EN1101834-014	EN1101834-015
USEPA Air Toxics Method TO15r								
Freon 12	75-71-8	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
Chloromethane	74-87-3	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
Freon 114	76-14-2	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Vinyl chloride	75-01-4	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Bromomethane	74-83-9	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Chloroethane	75-00-3	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Freon 11	75-69-4	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
1.1-Dichloroethene	75-35-4	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
Dichloromethane	75-09-2	0.5	nqdd	4.0	<1.2	<1.2	<1.3	<1.2
Freon 113	76-13-1	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
1.1-Dichloroethane	75-34-3	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
cis-1.2-Dichloroethene	156-59-2	0.5	vdqq	<1.3	<1.2	<1.2	<1.3	<1.2
Chloroform	67-66-3	0.5	hdpd	<1.3	<1.2	<1.2	<1.3	<1.2
1.2-Dichloroethane	107-06-2	0.5	vdqq	<1.3	<1.2	<1.2	<1.3	<1.2
1.1.1-Trichloroethane	71-55-6	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Benzene	71-43-2	0.5	hdpd	<1.3	<1.2	<1.2	<1.3	<1.2
Carbon Tetrachloride	56-23-5	0.5	hdpd	<1.3	<1.2	<1.2	<1.3	<1.2
1.2-Dichloropropane	78-87-5	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Trichloroethene	79-01-6	0.5	hddd	<1.3	<1.2	<1.2	<1.3	<1.2
cis-1.3-Dichloropropylene	10061-01-5	0.5	hdpd	<1.3	<1.2	<1.2	<1.3	<1.2
trans-1.3-Dichloropropene	10061-02-6	0.5	vdqq	<1.3	<1.2	<1.2	<1.3	<1.2
1.1.2-Trichloroethane	2-00-62	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Toluene	108-88-3	0.5	vdqq	<1.3	2.7	<1.2	2.1	<1.2
1.2-Dibromoethane (EDB)	106-93-4	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Tetrachloroethene	127-18-4	0.5	hddd	<1.3	<1.2	<1.2	<1.3	<1.2
Chlorobenzene	108-90-7	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Ethylbenzene	100-41-4	0.5	hdpdv	<1.3	<1.2	<1.2	<1.3	<1.2
meta- & para-Xylene	108-38-3 106-42-3	1.0	hddd	<2.6	<2.5	<2.5	<2.7	<2.5
Styrene	100-42-5	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
1.1.2.2-Tetrachloroethane	79-34-5	0.5	hddd	<1.3	<1.2	<1.2	<1.3	<1.2
ortho-Xylene	95-47-6	0.5	hdpd	<1.3	<1.2	<1.2	<1.3	<1.2
4-Ethyltoluene	-	0.5	hdpd	<1.3	<1.2	<1.2	<1.3	<1.2
1.3.5-Trimethylbenzene	108-67-8	0.5	hdpd	<1.3	<1.2	<1.2	<1.3	<1.2
1.2.4-Trimethylbenzene	92-63-6	0.5	hddd	<1.3	<1.2	<1.2	<1.3	<1.2
1.3-Dichlorobenzene	541-73-1	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
Benzylchloride	100-44-7	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
1.4-Dichlorobenzene	106-46-7	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2



tert-Amyl Methyl Ether (TAME)

ENVIRONMENTAL EARTH SCIENCES STH MELBOURNE GASWORKS EN1101834 14 of 23

Work Order

Project Client

#### Analytical Results

REHEARSAL ROOM 17-JUL-2011 15:00 EN1101834-015 < 1.2</p>
< 1.2</p> <1.2 <1.2 <1.2 <1.2 <1.2 ×1.2 <1.2 ×1.2 <1.2 <1.2 ×1.2 <1.2 <1.2 <1.2 1.9 <1.2 <1.2 <1.2 <1.2 5.7 17-JUL-2011 15:00 BACKGROUND EN1101834-014 د<del>1</del>.3 د<del>1</del>.3 د<del>1</del> ک 1.3 د<del>ر</del> 3. × 5. د<del>1</del>.3 د<del>1</del>.3 د<del>1</del>.3 <mark>د</mark> ک <1.3 × 1.3 1.6 17-JUL-2011 15:00 EN1101834-013 CAFE 4985 <1.2 ^ 1.2 2.1.2 <1.2 <1.2 ×1.2 1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 < 1.2 1.2 2.0 6.4 547 THEATRE W/SHOP 17-JUL-2011 15:00 EN1101834-012 <1.2 <1.2 <1.2 <1.2 <1.2 <1.2 27.0 <1.2 <1.2 <1.2 <1.2 **4**1.2 <1.2 <1.2 <1.2 **4**1.2 <1.2 ×1.2 ×1.2 <1.2 1.2 <1.2 <1.2 <1.2 2.5 <1.2 13.6 <1.2 <1.2 <1.2 **CERAMIC STUDIO** 17-JUL-2011 15:00 EN1101834-011 × 1.3 × 1.3 د<del>1</del>.3 × 1.3 <1.3 د<del>1</del>.3 × 1.3 د<del>1</del>.3 د<del>1</del>.3 <del>ر</del> 3. <del>1</del>3 4772 × 1.3 <1.3 <1.3 <u>^</u> <u>^</u> × 1.3 <u>^1</u>.3 × 1.3 × 1.3 <u>^1</u>.3 < 1.3 2.5 32.8 9.9 Client sample ID Client sampling date / time hpbv hpbv nqdd nqdd ngdd nddd hdpv nqdd hpbv nqdd hpbv hpbv ngdd nqdd hpbv nqdd hpbv nqdd hpbv hpbv vdqqq vddd vddd Cnit LOR 0.5 637-92-3 95-50-1 87-68-3 67-64-1 75-27-4 95-49-8 994-05-8 CAS Number 120-82-1 0-66-90 75-15-0 123-91-1 9002-89-5 156-60-5 142-82-5 67-63-0 78-93-3 108-10-1 591-78-6 115-07-1 634-04-4 109-99-9 75-25-2 108-05-4 593-60-2 64-70-5 75-05-8 107-02-8 75-65-0 107-13-1 107-05-1 **USEPA Air Toxics Method TO15r - Continued** Methyl tert-Butyl Ether (MTBE) Ethyl tert-Butyl Ether (ETBE) 1-Chloro-2-propene (Allyl trans-1.2-Dichloroethene Dibromochloromethane **Bromodichloromethane** Methyl iso-Butyl ketone 1.2.4-Trichlorobenzene 2-Chloro-1.3-butadiene Hexachlorobutadiene 1.2-Dichlorobenzene 2-Hexanone (MBK) Di-isopropyl Ether Isopropyl Alcohol 2-Butanone (MEK) tert-Butyl alcohol Carbon disulfide 2-Chlorotoluene **Tetrahydrofuran** Sub-Matrix: AIR 1.3-Butadiene Vinyl bromide Cyclohexane Vinyl Acetate Acrylonitrile 1.4-Dioxane Ethylacetate Bromoform Acetonitrile Compound Isooctane chloride) Heptane Ethanol Acrolein Hexane





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Page Work Order

#### Analytical Results

Project Client

AIR	
Sub-Matrix:	

Sub-Matrix: AIR		Clie	Client sample ID	4772	4736	4985	4981	4983
	i			CERAMIC STUDIO	THEATRE W/SHOP	CAFE	BACKGROUND	REHEARSAL ROOM
	Oji	int samplin	Client sampling date / time	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-011	EN1101834-012	EN1101834-013	EN1101834-014	EN1101834-015
USEPA Air Toxics Method TO15r - Continued	pe							
Methyl Methacrylate	80-62-6	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
1.1.1.2-Tetrachloroethane	630-20-6	0.5	nqdd	<1.3	<1.2	<1.2	× 5.1.3	<1.2
Isopropylbenzene	98-82-8	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
n-Propylbenzene	103-65-1	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
tert-Butylbenzene	9-90-86	0.5	nqdd	<1.3	<1.2	<1.2	× 5.1.3	<1.2
sec-Butylbenzene	135-98-8	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
2-isopropyltoluene	1	0.5	nqdd	<1.3	<1.2	<1.2	<1.3	<1.2
n-Butylbenzene	104-51-8	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
Naphthalene	91-20-3	0.5	ngdd	<1.3	<1.2	<1.2	<1.3	<1.2
USEPA Air Toxics Method TO15r (Mass/Volume)	olume)							
^ Freon 12	75-71-8	2.5	m/grl	<6.4	<6.2	<6.3	<6.7	<6.2
^ Chloromethane	74-87-3	1.0	m/grl	<2.6	<2.5	<2.5	<2.7	<2.5
^ Freon 114	76-14-2	3.5	hg/m³	<9.0	<8.7	8.8>	4.6>	8.8
^ Vinyl chloride	75-01-4	1.3	m/grl	<3.4	<3.2	<3.2	<3.5	<3.2
^ Bromomethane	74-83-9	1.9	hg/m³	<4.9	<4.7	<4.8	<5.1	<4.8
^ Chloroethane	75-00-3	1.3	m/brl	<3.4	<3.2	<3.2	<3.5	<3.2
^ Freon 11	75-69-4	2.8	m/grl	<7.2	<7.0	<7.0	<7.5	<7.0
^ 1.1-Dichloroethene	75-35-4	2.0	m/bn	<5.2	<5.0	<5.0	<5.4	<5.0
^ Dichloromethane	75-09-2	1.7	hg/m³	14.0	<4.2	<4.3	<4.6	<4.2
^ Freon 113	76-13-1	3.8	m/brl	<9.8	<9.4	<9.5	<10.2	<9.5
^ 1.1-Dichloroethane	75-34-3	2.0	m/brl	<5.2	<5.0	<5.0	<5.4	<5.0
^ cis-1.2-Dichloroethene	156-59-2	2.0	m/grl	<5.2	<5.0	<5.0	<5.4	<5.0
^ Chloroform	67-66-3	2.4	hg/m³	<6.2	<6.0	<6.0	4.6.4	<6.0
^ 1.2-Dichloroethane	107-06-2	2.0	hg/m³	<5.2	<5.0	<5.0	<5.4	<5.0
^ 1.1.1-Trichloroethane	71-55-6	2.7	hg/m³	<7.0	<6.7	<6.8	<7.2	8.99
^ Benzene	71-43-2	1.6	hg/m³	<4.1	<4.0	<4.0	<4.3	<4.0
^ Carbon Tetrachloride	56-23-5	3.1	m/grl	<8.0	<7.7>	<7.8	<8.3	<7.8
^ 1.2-Dichloropropane	78-87-5	2.3	m/grl	<5.9	<5.7	<5.8	<6.2	<5.8
^ Trichloroethene	79-01-6	2.7	hg/m³	<7.0	<6.7	<6.8	<7.2	8.99
^ cis-1.3-Dichloropropylene	10061-01-5	2.3	m/brl	<5.9	<5.7	<5.8	<6.2	<5.8
^ trans-1.3-Dichloropropene	10061-02-6	2.3	hg/m³	<5.9	<5.7	<5.8	<6.2	<5.8
^ 1.1.2-Trichloroethane	2-00-62	2.7	hg/m³	<7.0	<6.7	<6.8	<7.2	8.9>
^ Toluene	108-88-3	1.9	hg/m³	<4.9	10.0	<4.8	7.9	<4.8
^ 1.2-Dibromoethane (EDB)	106-93-4	3.8	hg/m³	<9.8	<9.4	<9.5	<10.2	<9.5
^ Tetrachloroethene	127-18-4	3.4	hg/m³	8.8>	<8.4	<8.5	<9.1	<8.5
^ Chlorobenzene	108-90-7	2.3	hg/m³	<5.9	<5.7	<5.8	<6.2	<5.8
^ Ethylbenzene	100-41-4	2.2	m/bn	<5.7	<5.5	<5.5	<5.9	<5.5



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#### Analytical Results

Project Client

Sub-Matrix: AIR		Clie	Client sample ID	4772 CEDAMIC STIDIO	4736 THEATDE WISHOD	4985	4981	4983 BEHEADSAL BOOM
	Ō	ient samplir	Client sampling date / time	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00	17-JUL-2011 15:00
Compound	CAS Number	LOR	Unit	EN1101834-011	EN1101834-012	EN1101834-013	EN1101834-014	EN1101834-015
USEPA Air Toxics Method TO15r (Mass/Volume) - Continued	Volume) - Contini	per						
^ meta- & para-Xylene 10	108-38-3 106-42-3	4.3	m/grl	<11.1	<10.7	<10.8	<11.5	<10.8
^ Styrene	100-42-5	2.1	mg/m³	<5.4	<5.2	<5.3	<5.6	<5.2
^ 1.1.2.2-Tetrachloroethane	79-34-5	3.4	mg/m³	<8.8	<8.4	<8.5	<9.1	<8.5
^ ortho-Xylene	95-47-6	2.2	mg/m³	<5.7	<5.5	<5.5	<5.9	<5.5
^ 4-Ethyltoluene	1	2.5	mg/m³	<6.4	<6.2	<6.3	<6.7	<6.2
^ 1.3.5-Trimethylbenzene	108-67-8	2.5	mg/m³	<6.4	<6.2	<6.3	<6.7	<6.2
^ 1.2.4-Trimethylbenzene	92-63-6	2.5	mg/m³	<6.4	<6.2	<6.3	<6.7	<6.2
^ 1.3-Dichlorobenzene	541-73-1	3.0	mg/m³	Z.7>	<7.5	<7.5	<8.0	<7.5
^ Benzylchloride	100-44-7	2.6	mg/m³	<6.7	<6.5	<6.5	<7.0	<6.5
^ 1.4-Dichlorobenzene	106-46-7	3.0	mg/m³	Z.7>	<7.5	<7.5	<8.0	<7.5
^ 1.2-Dichlorobenzene	95-50-1	3.0	mg/m³	Z.7>	<7.5	<7.5	<8.0	<7.5
^ 1.2.4-Trichlorobenzene	120-82-1	3.7	mg/m³	<9.5	<9.2	<9.3	6.6>	<9.2
^ Hexachlorobutadiene	87-68-3	5.3	mg/m³	<13.7	<13.2	<13.3	<14.2	<13.2
^ Acetone	67-64-1	1.2	mg/m³	<3.1	<3.0	<3.0	<3.2	<3.0
^ Bromodichloromethane	75-27-4	3.4	mg/m³	<8.8	<8.4	<8.5	<9.1	<8.5
^ 1.3-Butadiene	106-99-0	1.1	mg/m³	<2.8	<2.7	<2.8	<2.9	<2.8
^ Carbon disulfide	75-15-0	1.6	mg/m³	<4.1	<4.0	<4.0	<4.3	<4.0
^ 2-Chlorotoluene	95-49-8	2.6	mg/m³	<6.7	<6.5	<6.5	<7.0	<6.5
^ 1-Chloro-2-propene (Allyl	107-05-1	1.6	hg/m³	<4.1	<4.0	<4.0	<4.3	<4.0
chloride)								
^ Cyclohexane	1	1.7	hg/m³	<4.4	<4.2	<4.3	<4.6	<4.2
^ Dibromochloromethane	124-48-1	4.3	hg/m³	<11.1	<10.7	<10.8	<11.5	<10.8
^ 1.4-Dioxane	123-91-1	1.8	mg/m³	<4.6	<4.5	<4.5	<4.8	<4.5
^ Ethylacetate	9002-89-5	1.8	hg/m³	<4.6	<4.5	<4.5	<4.8	<4.5
^ trans-1.2-Dichloroethene	156-60-5	2.0	hg/m³	<5.2	<5.0	<5.0	<5.4	<5.0
^ Heptane	142-82-5	2.0	hg/m³	<5.2	<5.0	<5.0	<5.4	<5.0
^ Hexane	1	1.8	mg/m³	23.2	95.0	22.7	26.6	20.2
^ Isooctane	1	2.3	mg/m³	<5.9	<5.7	<5.8	<6.2	<5.8
^ Isopropyl Alcohol	67-63-0	1.2	mg/m³	<3.1	<3.0	<3.0	<3.2	<3.0
^ 2-Butanone (MEK)	78-93-3	1.5	mg/m³	<3.9	<3.7	<3.8	<4.0	<3.8
^ Methyl iso-Butyl ketone	108-10-1	2.0	mg/m³	<5.2	<5.0	<5.0	<5.4	<5.0
^ 2-Hexanone (MBK)	591-78-6	2.0	mg/m³	<5.2	<5.0	<5.0	<5.4	<5.0
^ Propene	115-07-1	6.0	mg/m³	4.3	4.3	3.4	2.7	3.3
^ Methyl tert-Butyl Ether (MTBE)	1634-04-4	1.8	mg/m³	<4.6	<4.5	<4.5	<4.8	<4.5
^ Tetrahydrofuran	109-99-9	1.5	hg/m³	<3.9	<3.7	<3.8	<4.0	<3.8
^ Bromoform	75-25-2	5.2	mg/m³	<13.4	<12.9	<13.0	<13.9	<13.0
^ Vinyl Acetate	108-05-4	1.8	hg/m³	<4.6	<4.5	<4.5	<4.8	<4.5





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Work Order

Client Project

#### Analytical Results

REHEARSAL ROOM 17-JUL-2011 15:00 EN1101834-015 <5.2 <6.8 <3.8 <8.5 <5.2 <5.2 <5.2 <6.2 <6.2 <6.8 <6.8 87.5 17-JUL-2011 15:00 BACKGROUND EN1101834-014 <2.9 <5.6 <7.2 <7.2 <5.6 <5.6 <5.6 49.1 <6.7 <2.1 <6.7 92.8 17-JUL-2011 15:00 EN1101834-013 CAFE 4985 <5.3 <5.3 <5.3 <8.5 e.9> <6.3 ×6.8 <5.3 <6.3 THEATRE W/SHOP 17-JUL-2011 15:00 EN1101834-012 <5.2 <2.7 <5.2 <5.2 <5.2 4.8 <6.2 <3.7 <6.2 <6.7 <6.7 91.6 <6.7 **CERAMIC STUDIO** 17-JUL-2011 15:00 EN1101834-011 4772 <5.4 <5.4 <5.4 <5.4 4.9> 8.8 8.8 <6.4 <7.0 90.7 Client sample ID Client sampling date / time hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ Chit % LOR 7. <del>1</del>.8 2.5 2.5 2.1 2.1 3.4 2.7 0.1 2.1 2.1 USEPA Air Toxics Method TO15r (Mass/Volume) - Continued 460-00-4 91-20-3 80-62-6 593-60-2 CAS Number 64-70-5 75-05-8 107-02-8 107-13-1 75-65-0 637-92-3 994-05-8 630-20-6 98-82-8 103-65-1 9-90-86 135-98-8 104-51-8 **USEPA Air Toxics Method TO15r Surrogates** ^ tert-Amyl Methyl Ether (TAME) ^ Ethyl tert-Butyl Ether (ETBE) ^ 1.1.1.2-Tetrachloroethane ^ 2-Chloro-1.3-butadiene 4-Bromofluorobenzene Methyl Methacrylate ^ 2-isopropyltoluene A Di-isopropyl Ether A Isopropylbenzene ^ tert-Butylbenzene ^ sec-Butylbenzene ^ tert-Butyl alcohol ^ n-Propylbenzene ^ n-Butylbenzene Vinyl bromide Naphthalene Sub-Matrix: AIR Acrylonitrile Acetonitrile Compound ^ Acrolein ^ Ethanol



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Page Work Order Client Project

1		-	:
-			
1			
-			
4992	BOOKSHOP	17-JUL-2011 15:00	EN1101834-016
Client sample ID		Client sampling date / time	Unit
O		Slient samp	LOR
			CAS Number LOR
Sub-Matrix: AIR			Compound

CASA Nyumbar         LOR         LOR         Tr.Jul.2011 15300 </th <th>Sub-Matrix: AIR</th> <th></th> <th>Clie</th> <th>int sample ID</th> <th>4992 BOOKSHOP</th> <th>-</th> <th></th> <th> </th> <th>-</th>	Sub-Matrix: AIR		Clie	int sample ID	4992 BOOKSHOP	-			-
CALS Number         LOR         ENTITOTISATION         CALS Number         CALS Number         CALS Number         CALS Number         CALS Number         CALS Number         CALS Number         CALS Number Numb		CI	ent samplin	ng date / time	17-JUL-2011 15:00	-		-	-
716714         0.6         ppbw         <12	Compound	CAS Number	LOR	Unit	EN1101834-016	1			-
74 87 18         0.6         ppby         <12	USEPA Air Toxics Method TO15r								
7.4472         0.5         ppbw         <12	Freon 12	75-71-8	0.5	nqdd	<1.2		-		
76,142         0.5         pibby         <1.2	Chloromethane	74-87-3	0.5	nddd	<1.2				
7.483.0         0.5         pabby         <1.2	Freon 114	76-14-2	0.5	nddd	<1.2	-		-	1
74839         0.5         ppbby         <12	Vinyl chloride	75-01-4	0.5	nqdd	<1.2				
75,003         0.5         ppbw         <12	Bromomethane	74-83-9	0.5	nqdd	<1.2				
76.694         0.5         ppbw         <1.2	Chloroethane	75-00-3	0.5	nqdd	<1.2				
76,364         0.6         ppbb         <12	Freon 11	75-69-4	0.5	nddd	<1.2	-	-		-
76,092         0.6         ppbv         <12	1.1-Dichloroethene	75-35-4	0.5	nddd	<1.2	-	-	-	-
7.6.14.1         0.5         ppbbw         <1.2	Dichloromethane	75-09-2	0.5	nddd	<1.2	-			
15-543   0.5   ppbv   <1.2	Freon 113	76-13-1	0.5	nddd	<1.2	1	1	-	1
156-582   0.5   ppbb   <1.2	1.1-Dichloroethane	75-34-3	0.5	nddd	<1.2	-	-	-	-
67-66-3   0.5   ppbv   c12	cis-1.2-Dichloroethene	156-59-2	0.5	nddd	<1.2	-			
107-06-2         0.5         ppbw         <12	Chloroform	67-66-3	0.5	nddd	<1.2	1	1	1	1
71-55-6         0.5         ppbw         <12	1.2-Dichloroethane	107-06-2	0.5	nddd	<1.2	-		-	
71432         0.5         ppbx         <12	1.1.1-Trichloroethane	71-55-6	0.5	nddd	<1.2	1	-	-	
56-23-6         0.5         ppbb         <1.2	Benzene	71-43-2	0.5	nddd	<1.2	1	1	1	1
78-87-5         0.5         ppbw         <1.2	Carbon Tetrachloride	56-23-5	0.5	nddd	<1.2	-		-	-
79.016         0.5         ppby         <12	1.2-Dichloropropane	78-87-5	0.5	nddd	<1.2	-			
10061-01-5         0.5         ppbw         <1.2	Trichloroethene	79-01-6	0.5	nddd	<1.2				
10061-02-6         0.5         ppbw         <12	cis-1.3-Dichloropropylene	10061-01-5	0.5	nddd	<1.2	1	-	-	-
79.00-6         0.6         ppbw         <12	trans-1.3-Dichloropropene	10061-02-6	0.5	nddd	<1.2	-			-
108-88-3         0.5         ppbv         4.6   -	1.1.2-Trichloroethane	2-00-62	0.5	nddd	<1.2	1	-	1	1
106-934         0.5         ppbw         <1.2	Toluene	108-88-3	0.5	nddd	4.6	-	-	-	1
127-184         0.5         ppbv         <1.2   -	1.2-Dibromoethane (EDB)	106-93-4	0.5	nddd	<1.2	-			
108-90-7         0.5         ppbv         <1.2	Tetrachloroethene	127-18-4	0.5	nddd	<1.2				
108-42-3         0.5         ppbv         <1.2	Chlorobenzene	108-90-7	0.5	nddd	<1.2				
108-38-3 106 42-3         1.0         ppbv         <2.5	Ethylbenzene	100-41-4	0.5	hpby	<1.2				
100-42-5         0.5         ppbv         <1.2	meta- & para-Xylene	108-38-3 106-42-3	1.0	nddd	<2.5				
79-34-5         0.5         ppbv         <1.2	Styrene	100-42-5	0.5	nddd	<1.2			-	
95-47-6         0.5         ppbv         <1.2	1.1.2.2-Tetrachloroethane	79-34-5	0.5	nddd	<1.2				
0.5         ppbv         <1.2	ortho-Xylene	95-47-6	0.5	nddd	<1.2				
108-67-8         0.5         ppbv         <1.2	4-Ethyltoluene	-	0.5	nqdd	<1.2	1			
95-63-6     0.5     ppbv     <1.2           541-73-1     0.5     ppbv     <1.2          106-46-7     0.5     ppbv     <1.2	1.3.5-Trimethylbenzene	108-67-8	0.5	nddd	<1.2				
541-73-1         0.5         ppbv         <1.2	1.2.4-Trimethylbenzene	95-63-6	0.5	nddd	<1.2				
100-44-7     0.5     ppbv     <1.2         106-46-7     0.5     ppbv     <1.2	1.3-Dichlorobenzene	541-73-1	0.5	nddd	<1.2			-	
106-46-7 0.5 ppbv <1.2	Benzylchloride	100-44-7	0.5	nddd	<1.2				
	1.4-Dichlorobenzene	106-46-7	0.5	nddd	<1.2				



Page Work Order Client Project

: 19 of 23 : EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS

4992	
Client sample ID	
Sub-Matrix: AIR	

•								
Sub-Matrix: AIR		Clie	Client sample ID	4992	-	-		-
	ii)	ent samplir	Client sampling date / time	17-IUI -2011 15:00		!	-	
	5	110	2000	00:00				
Compound	CAS Number	LOR	Unit	EN1101834-016				
USEPA Air Toxics Method TO15r - Continued	pen							
1.2-Dichlorobenzene	95-50-1	0.5	nddd	<1.2	1	1		-
1.2.4-Trichlorobenzene	120-82-1	0.5	vdqqq	<1.2			-	
Hexachlorobutadiene	87-68-3	0.5	vdqq	<1.2			-	
Acetone	67-64-1	0.5	vdqqq	<1.2			-	
Bromodichloromethane	75-27-4	0.5	vdqqq	<1.2				
1.3-Butadiene	106-99-0	0.5	vdqqq	<1.2	-			
Carbon disulfide	75-15-0	0.5	nddd	<1.2		-		
2-Chlorotoluene	95-49-8	0.5	nddd	<1.2	I	-	-	-
1-Chloro-2-propene (Allyl chloride)	107-05-1	0.5	ngdd	<1.2				
Cyclohexane	1	0.5	nddd	<1.2		-		
Dibromochloromethane	124-48-1	0.5	nddd	<1.2	-	-		-
1.4-Dioxane	123-91-1	0.5	nddd	<1.2	1	1		-
Ethylacetate	9002-89-5	0.5	nddd	<1.2	1	1	-	1
trans-1.2-Dichloroethene	156-60-5	0.5	nddd	<1.2	1	1	-	-
Heptane	142-82-5	0.5	vdqqq	<1.2				
Hexane		0.5	nddd	0.6				
Isooctane		0.5	hdpd	<1.2				
Isopropyl Alcohol	67-63-0	0.5	hpbv	<1.2				
2-Butanone (MEK)	78-93-3	0.5	vdqqq	<1.2				
Methyl iso-Butyl ketone	108-10-1	0.5	hdpd	<1.2				
2-Hexanone (MBK)	591-78-6	0.5	hpbv	<1.2				
Propene	115-07-1	0.5	nddd	1.7				
Methyl tert-Butyl Ether (MTBE)	1634-04-4	0.5	hdpd	<1.2				
Tetrahydrofuran	109-99-9	0.5	hpbv	<1.2				
Bromoform	75-25-2	0.5	hpbv	<1.2				
Vinyl Acetate	108-05-4	0.5	hdpv	<1.2				
Vinyl bromide	593-60-2	0.5	hpbv	<1.2				
Ethanol	64-70-5	0.5	hpbv	<1.2				
Acetonitrile	75-05-8	0.5	hpbv	<1.2				
Acrolein	107-02-8	0.5	hpbv	<1.2				
Acrylonitrile	107-13-1	0.5	nddd	<1.2				
tert-Butyl alcohol	75-65-0	0.5	nqdd	<1.2	1	-	1	-
2-Chloro-1.3-butadiene		0.5	nddd	<1.2	-	-	-	-
Di-isopropyl Ether	-	0.5	nddd	<1.2	1	1	-	-
Ethyl tert-Butyl Ether (ETBE)	637-92-3	0.5	vdqqq	<1.2	1	-	-	
tert-Amyl Methyl Ether (TAME)	994-05-8	0.5	nddd	<1.2				



 Page
 : 20 of 23

 Work Order
 : EN1101834

 Client
 : ENVIRONMI

 Project
 : STH MELBC

ENVIRONMENTAL EARTH SCIENCES
STH MELBOURNE GASWORKS

Analytical Results

| | | | | 1 17-JUL-2011 15:00 EN1101834-016 BOOKSHOP <1.2 <1.2 <1.2 <1.2 <1.2 **~**1.2 ×1.2 <3.2 <4.7 <3.2 <6.9 <4.2 4.6> 4.9 4.9 <5.9 4.9 <6.7 <4.0 <7.6 <5.7 <6.7 <5.7 <5.7 <6.7 4.6 <5.7 17.4 Client sample ID Client sampling date / time hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ hg/m³ nqdd ppbv nqdd vddd ppbv nqdd hg/m³ hg/m³ Unit LOR 0.5 0.5 0.5 0.5 0.5 0.5 0.5 3.5 1.3 2.8 3.8 0.5 1.3 1.7 2.0 2.0 2.4 2.0 2.7 1.6 3.1 2.3 2.3 CAS Number 80-62-6 9-90-86 75-71-8 75-00-3 67-66-3 71-43-2 56-23-5 78-87-5 91-20-3 630-20-6 98-82-8 103-65-1 135-98-8 104-51-8 76-14-2 74-83-9 75-69-4 75-35-4 75-09-2 76-13-1 75-34-3 156-59-2 107-06-2 71-55-6 79-01-6 10061-01-5 10061-02-6 79-00-5 108-88-3 106-93-4 127-18-4 100-41-4 USEPA Air Toxics Method TO15r (Mass/Volume **USEPA Air Toxics Method TO15r - Continued** ^ trans-1.3-Dichloropropene ^ cis-1.3-Dichloropropylene 1.2-Dibromoethane (EDB) 1.1.1.2-Tetrachloroethane A cis-1.2-Dichloroethene ^ 1.1.2-Trichloroethane ^ 1.1.1-Trichloroethane A Carbon Tetrachloride ^ 1.2-Dichloropropane ^ 1.1-Dichloroethane ^ 1.2-Dichloroethane ^ 1.1-Dichloroethene A Tetrachloroethene Methyl Methacrylate A Dichloromethane 2-isopropyltoluene Isopropylbenzene A Trichloroethene tert-Butylbenzene sec-Butylbenzene ^ Bromomethane ^ Chlorobenzene n-Propylbenzene Chloromethane n-Butylbenzene Vinyl chloride A Chloroethane Ethylbenzene Sub-Matrix: AIR Chloroform Naphthalene ^ Freon 114 ^ Freon 113 ^ Freon 12 ^ Freon 11 Compound A Benzene ^ Toluene



Page Work Order Client Project

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Sub-Matrix: AIR		Clie	Client sample ID	4992	-		1	-
				ВООКЅНОР				
	Clie	ent samplin	Client sampling date / time	17-JUL-2011 15:00	1	-	•	-
Compound	CAS Number	LOR	Unit	EN1101834-016				
USEPA Air Toxics Method TO15r (Mass/Volume) - Continued	/olume) - Continue	þe						
^ meta- & para-Xylene	108-38-3 106-42-3	4.3	hg/m³	<10.6	1	-	-	1
^ Styrene	100-42-5	2.1	mg/m³	<5.2	-	-		-
^ 1.1.2.2-Tetrachloroethane	79-34-5	3.4	mg/m³	<8.4				
^ ortho-Xylene	95-47-6	2.2	m/g/m³	<5.4	-		-	
^ 4-Ethyltoluene	1	2.5	mg/m³	<6.2				-
^ 1.3.5-Trimethylbenzene	108-67-8	2.5	mg/m³	<6.2				
^ 1.2.4-Trimethylbenzene	92-63-6	2.5	mg/m³	<6.2				-
^ 1.3-Dichlorobenzene	541-73-1	3.0	mg/m³	4.7>	-			-
^ Benzylchloride	100-44-7	5.6	mg/m³	<6.4				
^ 1.4-Dichlorobenzene	106-46-7	3.0	mg/m³	4.7>	1	1	-	1
^ 1.2-Dichlorobenzene	95-50-1	3.0	hg/m³	<7.4	-	-		1
^ 1.2.4-Trichlorobenzene	120-82-1	3.7	mg/m³	<9.1	1	1		1
^ Hexachlorobutadiene	87-68-3	5.3	mg/m³	<13.1	-		-	1
^ Acetone	67-64-1	1.2	mg/m³	<3.0	-	-		-
^ Bromodichloromethane	75-27-4	3.4	hg/m³	<8.4	-	-		1
^ 1.3-Butadiene	106-99-0	1.1	hg/m³	<2.7				
^ Carbon disulfide	75-15-0	1.6	hg/m³	<4.0	-		-	1
^ 2-Chlorotoluene	95-49-8	2.6	hg/m³	<6.4				-
^ 1-Chloro-2-propene (Allyl chloride)	107-05-1	1.6	hg/m³	<4.0	-			
^ Cyclohexane	1	1.7	m/gn	<4.2	-			
^ Dibromochloromethane	124-48-1	4.3	mg/m³	<10.6	-	-		-
^ 1.4-Dioxane	123-91-1	1.8	hg/m³	<4.4				-
^ Ethylacetate	9002-89-5	1.8	hg/m³	<4.4	1	-	-	1
^ trans-1.2-Dichloroethene	156-60-5	2.0	hg/m³	<4.9				-
^ Heptane	142-82-5	2.0	mg/m³	<4.9				
^ Hexane	1	1.8	mg/m³	31.9			-	
^ Isooctane	-	2.3	hg/m³	<5.7				
^ Isopropyl Alcohol	67-63-0	1.2	hg/m³	<3.0				
^ 2-Butanone (MEK)	78-93-3	1.5	hg/m³	<3.7	-			-
^ Methyl iso-Butyl ketone	108-10-1	2.0	mg/m³	<4.9				
^ 2-Hexanone (MBK)	591-78-6	2.0	hg/m³	<4.9				
^ Propene	115-07-1	6.0	hg/m³	2.9				
^ Methyl tert-Butyl Ether (MTBE)	1634-04-4	1.8	hg/m³	<4.4				
^ Tetrahydrofuran	109-99-9	1.5	hg/m³	<3.7				
^ Bromoform	75-25-2	5.2	mg/m³	<12.8				
^ Vinyl Acetate	108-05-4	1.8	µg/m³	<4.4				-





: 22 of 23 : EN1101834 : ENVIRONMENTAL EARTH SCIENCES : STH MELBOURNE GASWORKS

Page Work Order

Analytical Results

Project Client

Sub-Matrix: AIR		Clie	Client sample ID	4992	-	1	-	-
				BOOKSHOP				
	Clie	ent samplin	Client sampling date / time	17-JUL-2011 15:00				
Compound	CAS Number	LOR	Unit	EN1101834-016	-	:		:
USEPA Air Toxics Method TO15r (Mass/Volume) - Continued	ne) - Continu	pa						
^ Vinyl bromide	593-60-2	2.2	hg/m³	<5.4	-		•	-
^ Ethanol	64-70-5	6.0	m/bn	<2.2	-	-	1	1
^ Acetonitrile	75-05-8	8.0	hg/m³	<2.0	1	-	1	1
^ Acrolein	107-02-8	1.1	hg/m³	<2.7	1	-	1	1
^ Acrylonitrile	107-13-1	1.1	hg/m³	<2.7	1			1
^ tert-Butyl alcohol	75-65-0	1.5	hg/m³	<3.7	1	-	1	1
^ 2-Chloro-1.3-butadiene	-	1.8	hg/m³	4.4	1	-	1	1
^ Di-isopropyl Ether	-	2.1	hg/m³	<5.2	-		1	-
^ Ethyl tert-Butyl Ether (ETBE)	637-92-3	2.1	hg/m³	<5.2	-		I	-
^ tert-Amyl Methyl Ether (TAME)	994-05-8	2.1	m/bn	<5.2	1	-	1	1
^ Methyl Methacrylate	80-62-6	2.1	hg/m³	<5.2	-		1	-
^ 1.1.1.2-Tetrachloroethane	630-20-6	3.4	hg/m³	<8.4	1		1	1
^ Isopropylbenzene	98-82-8	2.5	hg/m³	<6.2	1	-	1	1
^ n-Propylbenzene	103-65-1	2.5	hg/m³	<6.2	-		i	
^ tert-Butylbenzene	9-90-86	2.7	hg/m³	<6.7	-		1	-
^ sec-Butylbenzene	135-98-8	2.7	hg/m³	<6.7	1	-	1	1
^ 2-isopropyltoluene		2.7	hg/m³	<6.7	-		-	-
^ n-Butylbenzene	104-51-8	2.7	hg/m³	<6.7	-		1	-
^ Naphthalene	91-20-3	2.6	hg/m³	<6.4			1	-
<b>USEPA Air Toxics Method TO15r Surrogates</b>								
4-Bromofluorobenzene	460-00-4	0.1	%	9.06	-		1	-





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Work Order : EN1101834
Client : ENVIRONMENTAL EARTH SCIENCES
Project : STH MELBOURNE GASWORKS

## Surrogate Control Limits

Sub-Matrix: AIR		Recovery Limits (%)	Limits (%)
Compound	CAS Number	Гом	High
USEPA Air Toxics Method TO15r Surrogates			
4-Bromofluorobenzene	460-00-4	09	140

If sourced from an ALS Laboratory: please tick > Chewcastle: 5 Rosegum Rd, Warabrook NSW 2304 Ph.02 4968 9433 Esamples newcastlegialserwin.com

Li Launceston: 27 Wellogion St. Launceston TAS C. Molbourne, 2-4 Westall Rd. Springwale VIC:3171 Ph.03 8549 9600 E. samples melbourne@alsonviro.com Townsville: 14-15 Desma Ct. Bohle-QLD 4818

C. Adelaide: 2-1 Burnta Pd. Pooroka SA 5096 Ph. Rt 8359 0890 E. adelaide@alsenvira.com

MS Sumple collected Semin N/A N/A My Ae-Sample pressure -2 Comments on LORs required, potential hazards, likely contaminant levels, or samples requiring specific QC analysis etc. (Lote exemits in routements LOR after disent) Additional Information Samola Yes RELINQUISHED BY: SAMPLED Justody Seal Intact? Rec Labor N NEY IN **Environmental Division** EN1200432 RECEIVED BY: 4 OLS RECEIVED BY: anister/Sampler Complete and Not Damaged Rec Laby N LABORATORY USE ONLY (Circle) Work Order Newcastle くれて RELINQUISHED BY: Other comment Suite Codes must be listed to attract suite price 1 ANALYSIS REQUIRED (Circle) COC SEQUENCE NUMBER RECEIVED BY: 1034 RELINQUISHED BY: TO-15X ☐ Non Standard or urgent TAT (List due date): TO-15 COC Standard TAT (List due date): TO-14 RELINQUISHED BY: RECEIVED 8Y: Dilution (Calc) Analysis Canister Gauge Pressures (PSI) COUNTRY OF ORIGIN: AUSTRALA D 1-1001 30 ん)ー Receipt 100 -12 O 9 (Standard TAT may be extended for multiple sequential analysis suites) TURNAROUND REQUIREMENTS: Post 112 CONTACT PH: (03) 9687 01 011 *∞* 2 ALS QUOTE NO.: N awhincup @ eesi, siz EDD FORMAT (or default): 130 -20 -30 30 Dispatch 30 30 8 30 SAMPLER MOBILE: ecs1.617 (eg Air) 01/02/12 Ar 29 ON 12 AL Air Visual Arts Studio 1 29 des Ar 29 on 12 AV 29 oc/ 12 Air 01 02 12 Br 101/2 Air 29/01/12 Air 23/01/12 29/01/12 PROJECT: STA MELBOUNDA CASUNDA PROJECT NO: 20074 DATE / TIME SAMPLED XIENCES Client Supplied Canister(s)? Y (N) 9 GAS SAMPLE CONTAINER INFORMATION Pessic PURCHASE ORDER NO .: Larden Spudio COMMENTS/SPECIAL HANDLING/REPLACEMENT OR RETURN INSTRUCTIONS Sculpture Studio CANISTER / SAMPLE DETAILS Dressing Room I Sing Km CLIENT SAMPLE ID Gate house Reheavsod DE STE のといること MINCOL Email Reports to (will default to PM if no other addresses are listed); Kitcher Email Invoice to (will default to PM if no other addresses are listed): Theatre Cafe CLIENT: ENUIRON MENTAL OFFICE: MEL BOULANE CONTROLLER PROJECT MANAGER: AND NO C SERIAL NO. 1833 ALLE COC Emailed to ALS? (YES / NO) 1615 1828 1613 4982 1609 4191 4782 1620 160 8091 5647 6340 1619 CANISTER REQUEST NO: 882 CANISTER SERIAL NO. 4737 4762 立立 7972 275 4383 4089 SAMPLER: LAB ID 0 0

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Telephone: +61-2-4968 9433

G Launceston: 27 Welfingtoti St, Launceston TAZ Fri. 03 6331 2158 E. Taunceston/galsenviro com N/A N/A Yes ) C Penth 10 Hot Way, Manga WA 6000 Ph. 09 9200 7666 E. samples perhigalsene RELINQUISHED BY: Sustody Seal Intact? Rec Lab VIN NE YIN Reclass NEYIN RECEIVED BY: Canister/Sampler Complete and Not Damaged LABORATORY USE ONLY (Circle) 14 Valve closed on Receipt? RELINQUISHED BY: D. Melbourno, 2-4 Westall Rd. Springvate VIC 31771 Ph.03 8549 5600 E. samples, melbournergelearning com RECEIVED BY: Cl. Adelaide: 2-1 Burns Rd. Poocalu SA 5099 Ph. 08 8209 0800 E adelaideogalaenviro.com 7 1 COC SEQUENCE NUMBER (Circle) RECEIVED BY: 2 06: 1 2 3 4 RELINGUISHED BY: □ Non Standard or urgent TAT (List due date): 339008 RELINGUISHED BY: + WY RELIN Briebane 74 Shand St. Stafford DLD 4050.
Proff 24347222 Estangles brichner@aleinwo.com
D. Townsyller 14-15 Desira Ct. Biothe CLD 4818
PROF 4766 (RRQ E. Powrouleinweisseranzigüenmeisseranz Standard TAT (List due date): RECEIVED BY: 25/11/12 AUSTRALIA PROJECT:STA MELIS. GASWORKS PROJECTINO: 2100 74 ALS QUOTENO .: NE CON-(Standard TAT may be extended for multiple sequential analysis suites) 166 If sourced from an ALS Laboratory: please tick Art Newcastle: 5 Rosegum Rd. Warabuck NSW 2304 Ph.02 4968 9433 E samples newcastle@atsowno.com CL Sydney, 277 Woodpark Rd., Smithfield NSW 2176 Ph. G2 8784 8565 E. Sambles sydney@alsenviro.com TURNAROUND REQUIREMENTS: SAMPLER MOBILE: ○ 以88 COUNTRY OF ORIGIN: CONTACT PHEST 684 awhireup @ eesi, biz EDD FORMAT (or default): Coesi. Lis SCIENCES Client Supplied Canister(s)? Y / N 005v1C PURCHASE ORDER NO .: COMMENTS/SPECIAL HANDLING/REPLACEMENT OR RETURN INSTRUCTIONS: らいっていて STOW AS AIR CANISTER CHAIN OF CUSTODY CLIENT: ENUI RONM ENTALGARTH Email Reports to (will default to PM if no other addresses are listed): Email Invoice to (will default to PM if no other addresses are listed): 出るる女 OFFICE: MCLBOURN ATTE

COC Emailed to ALS? (YES / NO)

SAMPLER:

CANISTER REQUEST NO: PROJECT MANAGER:

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Approved Oaks 1201/2012





# **CERTIFICATE OF ANALYSIS**

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Accreditation Category

NeDwasrle

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A-ebe a behobek less rai (/) bes, ir G-@-eb rai r-e 2. TVr-G v at Le K, e roh boo abt sav hie exmawu Kngesrane Kng noi ai Kub o Cs, frûeir sav hie fob ai att sûd

A-eberee. TofabehobreK bes, IrK Offebs foor sraik ab K.2. TVF. Broat Le K, ero-G-roos, be woinein VCs, ffoolia rsarhie (beK, weK Deg-rerhiotek) obvantoo Crebfebeiwed

A - ei sav hll G robe G fobvaroli G i or hbon G e K Lt r - e wilde i Vsav hll G g Kares abe s- o Di D G o, r a robe e wov hoi ei r d Hirese C srai wes Vr-erobe e vov hoi ei r - as Leei ass, ve K Lt r - e la Lobarold fob hbovess G h, bhoses d

y SMN, v. Leb < y SM beg@rtti, v. Leb fbov KaraLase v a Gra GeKLty-ev Qal SLsrbaws Mebn Qesd5-ey-ev Qal SLsrbaws Mebn Qe a K QaG of r-e Sveb Qainyev Qal Mov Metrd ..

2. T < 2@ Cof behobrCg

^ < 5- © bes, Ir © wov h, reK fbov OKOOK, al ai altre Kerewnolis arobaLone r-e lenel of behobno

EP101: Results reported in µg/m³ are calculated from PPBV results based on a temperature of 25°C and atmospheric pressure of 101.3 kPa. µg/m³ results should be corrected to account for actual conditions during sampling.

EP101: Sample canisters were received at sub-ambient pressures and required dilution in the laboratory prior to analysis. LOR values have been adjusted accordingly. •



Pbojew

018873 M5Wc E2O. I TNE GSMA. TUM ENYH. Nc EN5S2 EST5WMy IENY EM EN1088340

4 of 04

A obu . tKeb

y l@ir

Analytical Results

06k=SNK0810 14:88 EN1200432-005 CAFE 4770 ФO / 8 8 8 8 90 9 90/ 00 / ФO / ФO / 90 00 / 90 8 90 9 90 90 8 90 8 8 38 8 8 38 5.5 90 900/ 90 81KFEOK0810 14:88 EN1200432-004 KITCHEN 4973 / 1¢ / 19 / 1¢ / 19 / 1¢ / 19 / 1¢ / 1¢ / 1¢ / 1¢ / 1¢ / 1¢ / 10<del>X</del> / 1¢ / 1¢ / 1¢ / 1¢ / 1¢ / 1¢ / 1¢ / 1¢ / 1¢ 1 A / 1¢ / X 5.2 / 1¢ / 1¢ / 1¢ 468 / 1¢ / 1¢ / 4dB / 1¢ 81 KFEOK0810 14:88 W. WING RM 1 EN1200432-003 **₽**0 / 400 ₩0 ν00/ ₽0 ₩0 .00₽ ₽0 / ΔP0 / ₽0 / ₽0/ 400√ **₽**0 / ₽0 / ν00 **₽**0 / Ф0/ ₽0 / ₽0 / ₽0 / **₽**0 / / XdB ∆00/ .00¢ / XdB ₽0 / ₩0 3.2 **₽**0 / **₽**0 / **₽**00/ **VISUAL ARTS STUDIO** 06k=SNK0810 14:88 EN1200432-002 4763 90 , 450 , 450 , 45 400 / / 0d# / Odf / 0d# / 0d# / 0c# / 0c# / 0d# / 0c# 13.2 / 0d# 400 / / 0d# / 0d# 22.0 / 0d# / 0d# 13.4 3.8 004 39.1 , 400 7.8 7.6 **GARDEN STUDIO** 06k=SNK0810 14:88 EN1200432-001 4747 Od 0d 0d | / 0df DQ! / 0df / 0df / 0dl / 0df / 0df / 0df / 0dl . Od √ / 0d ₩ | Odd | 13.2 / 0df / 0df 0d | / 0df 39 / 0df log/ 330 / 0d / 0df Od / 0df Client sample ID Client sampling date / time hhLn Cnit LOR 8 88 88 88 X 88 8 88 88 88 88 88 X 88 88 88 8 88 84 8 8 88 X 8 88 88 X 88 X 8 88 X 8 8 8 188 8 88 88 8 쓠 88 X 8 88 88 88 7XK71K9 7XI81IS 7XI86K0 7+K4K CAS Number 73/97/4 7+K13K0 73K94K6 7XK88K4 7Xk+6k3 7X4X3 7X43A 1X+KX6K0 +75+44 187k8+k0 71 KXXK+ 71K34K0 X+K04KX 79/87/KX 76k81k+ 188+1k81kX 76k88kX 18969944 18+K64K3 107K19K3 188K31K3 189k49k4 18+K30k4 188K30KX 76k43kX 6XK37k+ 紊 189k+7k9 6Xk+4k+ 188+1k80k+ 189K68K7 X31K74KI **USEPA Air Toxics Method TO15r** trans-1.3-Dichloropropene cis-1.3-Dichloropropylene 1.1.2.2-Tetrachloroethane 1.2-Dibromoethane (EDB) 1.3.5-Trimethylbenzene 1.2.4-Trimethylbenzene cis-1.2-Dichloroethene 1.1.1-Trichloroethane 1.1.2-Trichloroethane Carbon Tetrachloride 1.2-Dichloropropane meta- & para-Xylene 1.3-Dichlorobenzene 1.2-Dichloroethane 1.1-Dichloroethene 1.1-Dichloroethane Tetrachloroethene Dichloromethane Trichloroethene Chloromethane **Bromomethane** Chlorobenzene 4-Ethyltoluene M, Lkc arb&: AIR Vinyl chloride Chloroethane Ethylbenzene ortho-Xylene Chloroform Freon 114 Freon 113 Compound Freon 12 Freon 11 Benzene Toluene Styrene