

Cairns Villa & Leisure Park and Kwikleen Dry Cleaners

Pease Street Cairns (Manoora)

BNE26227

TPR Jim Soltau

**EO_Integrated Assessment\Project Support\Manager GOC\Contaminated
Land\Pease Street Cairns**

10 October 2012

Site History

Cairns Villa & Leisure Park has operated a caravan park for some time on Lot 1 on RP742725. Neighbouring land is occupied by a dry cleaner (Kwikleen).

s.73 Irrelevant information

Samples were taken adjacent to the boundary with Kwikleen, with elevated concentrations of volatile organic chlorinated compounds (VOCCs) (trichloroethene (TCE) tetrachloroethene (PCE) and dichloroethene (DCE)). A notification was provided to the EPA and the site relisted on the EMR in 2007.

s.73 Irrelevant information

Kwikleen has installed a remediation trench and recovery system but, as is typical of such contamination, remediation to acceptable criteria is difficult.

Topography

The land is relatively flat.

Geology

An upper layer of loose clay to about 1.5m is underlain by a loose medium to coarse grained sand.

Hydrogeology

Groundwater is between 1.5 to 2m bgl with a relatively low hydraulic gradient and a flow generally to the north-east.

Investigations

GHD conducted the initial investigations relating to the removal of the underground fuel tank.

LaVert conducted the subsequent investigations identifying the VOCCs.

Golder Associates has more recently been conducting the investigations for Cairns Villa (and it is believed for Kwikleen)

A TPR (Jim Soltau) is engaged for both sites.

The most recent investigations, along with earlier groundwater results are in the folder with copies on the file prior to Keeper, and subsequently received information in Keeper. The most pertinent recent reports are:

- 087673045-33-R-Rev0_Delineation_Investigation.pdf
- Ltr Review of Golder Associates Delineation Investigation Cairns Villa Caravan Park_30082012.pdf

Current Status

Cairns Villa and Kwikleen have been in negotiations to resolve this matter. The TPR has advised that the parties have come to an agreement that Kwikleen would purchase that part of the Cairns Villa property affected by VOCCs. Golder is currently proposing the boundary for consideration by the TPR.

It is worth noting that criteria for VOCCs are proposed in the ASC NEPM variation. Public consultation documents proposed criteria, with comments being received. The current draft (which is confidential as it is still in draft) proposes much lower criteria (see \EO_Integrated Assessment\Project Support\Manager GOC\Library\Contaminated Land\NEPM Drafts 2010\Revisions August 2012 B1_clean_Guideline on investigation levels for soil and groundwater_28aug12.pdf-Table 1A(2) Section 5.5 of B7_Guideline on health-based investigation levels_19Aug2012.pdf) based on very conservative attenuation factors for soil vapour to indoor air.

There are a series of emails in Keeper regarding appropriate criteria for setting the boundary. The most recent advice from EHP is:

In answering your question, it is worthwhile to consider the overall context of contaminated land assessment and management. It is based on a scientific assessment of the risks posed by any soil contamination to humans, principally users of the land, and the environment. The Australian approach, through the ASC NEPM, is to set HILs for Tier 1 assessment and that if HILs are exceeded then a Tier 2 assessment is conducted. As you are aware, HILs are not cleanup criteria although they may be used as such if a site-specific Tier 2 assessment is not conducted.

In the circumstances of this site, HILs for the chlorinated alkenes TCE & PCE have not been set but discussions relating to HILs for these chemicals are ongoing in the ASC NEPM variation process. It would appear that in the absence of HILs a toxicologist has provided an assessment and proposed site-specific criteria. This approach is consistent with the ASC NEPM as it stands today (without HILs for TCE & PCE) and as it would be if HILs, that happened to be lower than site analytical results, were set in the NEPM at some time in the future.

As I have previously advised, contaminated site professionals assessing the site are expected to have a detailed understanding of the site and the risks from any contamination. The professional's assessment and recommendations to EHP would be expected to be based on this understanding. EHP would be reliant on the recommendations of the professionals in making its decisions.

Action Required

No action required at this time as further investigations are being conducted by Golder to set the boundary.

Contact

Jim Soltau jim@jimsoltau.com Section 78B(2) RTI Act

RTI DL RELEASE - EHP

Lucke Gavin

From: O'Connor Gary
Sent: Tuesday, 18 September 2012 12:41 PM
To: Contaminated Land
Subject: RE: New land parcel. NQ Villas & Hospitality Services
Hi Gavin

BNE26227
Relevant lots
Lot 1 on RP745758 relevant information
s.73 Irrelevant information

cheers

goc

Gary O'Connor
Manager, Project Support, Statewide Environmental Assessment
Environmental Performance and Coordination Branch
Environmental Services and Regulation Division
Department of Environment and Heritage Protection

Telephone: 67 7 3330 5708
Facsimile: 61 7 3330 5754

Mobile: [REDACTED] ch4p3(3) Prescribes the protection of an individual's right to privacy

GPO Box 2454 Brisbane QLD 4001
400 George Street Brisbane

From: Lucke Gavin **On Behalf Of** Contaminated Land
Sent: 18 September 2012 10:29 AM
To: O'Connor Gary
Subject: FW: New land parcel. NQ Villas & Hospitality Services

Hi Gary

For our records, could you please confirm the Lot on Plan details for this site?

Thanks for your help, regards

Gavin Lucke
Senior Environmental Support Officer
Contaminated Land Unit
Environmental Services and Regulation
Department of Environment & Heritage Protection (EHP)

Telephone: 07 3330 5375
Fax: 07 3330 5634
Email: gavin.lucke@ehp.qld.gov.au

Contaminated Land Unit
 Level 7, 400 George Street, Brisbane Q 4000
 GPO Box 2454, Brisbane Q 4001

From: Jim Soltau [mailto:jim@jimsoltau.com]
Sent: Tuesday, 18 September 2012 9:04 AM
To: O'Connor Gary
Cc: Contaminated Land; Ready Kelli; Delzoppo Lindsay; pscells@golder.com.au;
 col@laundryqld.com.au
Subject: FW: New land parcel. NQ Villas & Hospitality Services

Gary,

Thanks for your response to our request for further clarification to the application of quantitative risk based remediation criteria for PCE and TCE. As you are aware, the remediation of the caravan park is subject to a court case and we (myself, Golder Associates and the dry cleaner site owner) are under a court order to proceed with the subdivision of the land. We must have a basis for moving forward.

In your email below you state "I note that your approach has been to seek advice from a toxicologist (Amanda Lee of AECOM) on this matter and consider this to be a reasonable approach. I also note the Amanda Lee has recognised the recent significant changes to the USEPA toxicity information and concur that this recent information should be taken into account." I interpret this to mean that it is reasonable to apply the calculated soil vapour thresholds of 2 mg/m3 for PCE and 0.1 mg/m3 for TCE the purposes of establishing the site boundary. I advise that Golder's have confirmed that they have checked Amanda's approach and agree that it is acceptable to apply these proposed criteria.

I have been advised that the whole process to create the new parcel of land may not be completed until March 2013. We must have confidence that the land parcel subdivision boundary will remain as planned even if a new NEPM threshold for PCE or TCE is lower than 2 mg/m3 or 0.1 mg/m3 respectively and the soil vapour monitoring results are marginally over the new NEPM thresholds. We believe this is reasonable as the results will be collected right on the new boundary and, as shown in previous soil vapour results, the concentrations decrease quite significantly within 5 metres distance. We believe that even if the results are slightly over the new NEPM, the potential risk to residents located near the boundary would be acceptable.

We are moving forward on the basis that once the new parcel of land for the caravan park is established, it will be suitable to be removed from the EMR.

Please confirm that EHP has no issue with this approach. Thanks for your cooperation.

Regards,

Jim Soltau
Principal
 Mobile Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
Toowong, QLD 4066

Please consider the environment before printing this email.

From: O'Connor Gary [mailto:Gary.O'Connor@ehp.qld.gov.au]
Sent: Wednesday, 12 September 2012 2:48 PM
To: Jim Soltau
Cc: Contaminated Land; Ready Kelli; Delzoppo Lindsay
Subject: RE: NQ Villas & Hospitality Services (F2131)

Hi Jim

Thank you for your email. I believe that the matters you raise are questions best answered by the professionals with a detailed understanding of the site. From an EHP perspective the advice I provided remains the position, i.e.:

"As you appreciate, specific soil vapour criteria for chlorinated alkanes and alkenes have not been set at this stage through the NEPM variation. Therefore I am not in a position to give advice on specific criteria.

I note that your approach has been to seek advice from a toxicologist (Amanda Lee of AECOM) on this matter and consider this to be a reasonable approach. I also note the Amanda Lee has recognised the recent significant changes to the USEPA toxicity information and concur that this recent information should be taken into account."

I note that Golder and yourself are working on the data gaps identified by Amanda Lee.

cheers

goc

Gary O'Connor
Manager, Project Support, Statewide Environmental Assessment
Environmental Performance and Coordination Branch
Environmental Services and Regulation Division
Department of Environment and Heritage Protection

Telephone: 67 7 3330 5708
Facsimile: 61 7 3330 5754

sch4p3(3) Pre Mobile protection of an individuals right to privacy

GPO Box 2454 Brisbane QLD 4001
400 George Street Brisbane

From: Jim Soltau [mailto:jim@jimsoltau.com]
Sent: 12 September 2012 10:53 AM
To: O'Connor Gary
Subject: FW: NQ Villas & Hospitality Services (F2131)

Gary,

Please see email trail below. I will phone you later to discuss.

Regards,

Jim Soltau

Principal
Mobile: section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
 Toowong, QLD 4066

Please consider the environment before printing this email.

From: Scells, Paul [<mailto:pscells@golder.com.au>]
Sent: Wednesday, 12 September 2012 10:28 AM
To: Jim Soltau
Cc: jim.soltau@aecom.com; 'Tracy Fantin'; col@laundryqld.com.au; 'Jacquie Swinson'; lestar@paelaw.com
Subject: RE: NQ Villas & Hospitality Services (F2131)

Jim

Sorry to be pedantic about this but we still do not appear to have written confirmation from EHP (Gary could drop dead tomorrow so a verbal agreement won't hold) that the proposed criteria will be acceptable to remove the balance of the caravan park from the EMR at the time that subdivision is finalised. Is there any way that this can occur, such as writing a RAP to add validity?

Regards

Paul

Paul Scells (BEng MIEAust CPEng) | Principal Engineer | **Golder Associates Pty Ltd**
 216 Draper Street, Cairns, Queensland 4870, Australia (PO Box 5823, Cairns QLD 4870)
T: +61 7 4054 8200 | **D:** +61 7 4054 8211 | **F:** +61 7 4054 8201 | **M:** +61 419 660 354 | **E:** pscells@golder.com.au | www.golder.com

Winner of 21 BRW Client Choice Awards 2006-2012, including in 2012:
 Best Consulting Engineering Firm (revenue \$50m-\$200m), Best Professional Services Firm (revenue \$50m-\$200m), Best Value and Best Firm as rated by the: Property & Construction Sector and Government.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

From: Jim Soltau [<mailto:jim@jimsoltau.com>]
Sent: Wednesday, 12 September 2012 10:17 AM
To: Scells, Paul
Cc: jim.soltau@aecom.com; 'Tracy Fantin'; col@laundryqld.com.au; 'Jacquie Swinson'; lestar@paelaw.com

Subject: RE: NQ Villas & Hospitality Services (F2131)

Paul,

I agree that Gary's email did not provide certainty which is why I phoned him to confirm we could proceed using these criteria. As these criteria are based on an appropriate quantitative risk based calculation using the best information available, there will be no second guessing regarding the boundary location when the new NEPM guidelines are released.

It should be noted though that the new NEPM criteria will likely apply in the future as the remediation goals for the contamination being remediated within the new land parcel and on the Kwikleen site.

Regards,

Jim Soltau
Principal
Mobile: 0418880293
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
Toowong, QLD 4066

Please consider the environment before printing this email.

From: Scells, Paul [<mailto:pscells@golder.com.au>]
Sent: Wednesday, 12 September 2012 10:07 AM
To: Jim Soltau
Cc: jim.soltau@aecom.com; 'Tracy Fantin'; col@laundryqld.com.au; 'Jacquie Swinson'; lestar@paelaw.com
Subject: RE: NQ Villas & Hospitality Services (F2131)

Jim

Not sure that Gary's email provide the certainty needed for this matter to proceed. Clarity is required that the "reasonable approach" and the criteria proposed will remain acceptable for the period required for subdivision to occur (likely to run into March 2013). Can you follow up please?

Regards

Paul

Paul Scells (BEng MIEAust CPEng) | Principal Engineer | Golder Associates Pty Ltd
216 Draper Street, Cairns, Queensland 4870, Australia (PO Box 5823, Cairns QLD 4870)
T: +61 7 4054 8200 | **D:** +61 7 4054 8211 | **F:** +61 7 4054 8201 | **M:** +61 419 660 354 | **E:** pscells@golder.com.au | www.golder.com

Winner of 21 BRW Client Choice Awards 2006-2012, including in 2012:

Best Consulting Engineering Firm (revenue \$50m-\$200m), Best Professional Services Firm (revenue \$50m-\$200m), Best Value and Best Firm as rated by the: Property & Construction Sector and Government.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

From: Jim Soltau [<mailto:jim@jimsoltau.com>]
Sent: Wednesday, 12 September 2012 10:01 AM
To: Scells, Paul
Cc: jim.soltau@aecom.com; 'Tracy Fantin'; col@laundrygld.com.au; 'Jacquie Swinson'; lestar@paelaw.com
Subject: FW: NQ Villas & Hospitality Services (F2131)

Paul,

Please see response from Gary O'Connor below. He was away sick on Thursday and Friday last week when we were trying to contact him.

I spoke to Gary yesterday about his response and he confirmed that we can proceed with the application of the criteria of 0.1 mg/m³ for TCE and 2 mg/m³ for PCE. These will be used to determine the location of the boundary of the new parcel of land so that the balance of the caravan park can be removed from the EMB.

You have requested clarification on the number of soil vapour wells required on the proposed boundaries to verify that the location of the boundary is appropriate. When it was agreed that one well on each boundary was sufficient to confirm the location, I was under the impression from Golder's advice that there would be strong clear correlation between the MIP results and the soil vapour results. While there is some correlation, I do not think it is strong enough to rely on the MIP results to establish the extent of soil vapour concentrations above the revised criteria to the north east and south east. You state that it is a small area, but the southern boundary is approximately 50 metres long and the northern boundary almost 30 metres long. I think more than one sample on each boundary is insufficient. I suggest that four additional soil vapour samples are required: one in the middle of the proposed northern and southern boundaries and one on the proposed corners of the boundary to the north east and south east.

I think it is imperative that we get the boundary location absolutely correct so that there are no issues raised by any of the stakeholders with relation to the boundary in the future.

Please ring or email me if you have any queries.

Regards,

Jim Soltau
Principal
Mobile Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

**PO Box 2128
Toowong, QLD 4066**

Please consider the environment before printing this email.

From: O'Connor Gary [mailto:Gary.O'Connor@ehp.qld.gov.au]
Sent: Monday, 10 September 2012 9:19 AM
To: Jim Soltau
Cc: Contaminated Land; Ready Kelli; Delzoppo Lindsay
Subject: RE: NQ Villas & Hospitality Services (F2131)

Jim

As you appreciate, specific soil vapour criteria for chlorinated alkanes and alkenes have not been set at this stage through the NEPM variation. Therefore I am not in a position to give advice on specific criteria.

I note that your approach has been to seek advice from a toxicologist (Amanda Lee of AECOM) on this matter and consider this to be a reasonable approach. I also note the Amanda Lee has recognised the recent significant changes to the USEPA toxicity information and concur that this recent information should be taken into account. I also note that Amanda Lee has identified a number of data gaps that should be addressed.

cheers

goc

Gary O'Connor
 Manager, Project Support, Statewide Environmental Assessment
 Environmental Performance and Coordination Branch
 Environmental Services and Regulation Division
 Department of Environment and Heritage Protection

Telephone: 67 7 3330 5708
 Facsimile: 61 7 3330 5754

sch4p3(3) Pre Mobile protection of an individuals right to privacy

GPO Box 2454 Brisbane QLD 4001
 400 George Street Brisbane

From: Jim Soltau [mailto:jim@jimsoltau.com]
Sent: 7 September 2012 9:08 AM
To: O'Connor Gary
Subject: FW: NQ Villas & Hospitality Services (F2131)

Gary,

Please see email from Paul Scells below. I understand he has been trying to contact you himself. I have attached the letter from Amanda Lee from AECOM regarding the proposed soil vapour guidelines for TCE and PCE of 0.1 mg/m3 and 2 mg/m3 respectively. You will see that Paul advises that Golders have reviewed these interim values and agree with them.

Can you please confirm that these values can be applied in determining the location of proposed boundaries for the new parcel of land which can be sub-divided from the caravan park such that the balance of the caravan park site can be removed from the EMR. I acknowledge that the final NEPM soil vapour thresholds for TCE and PCE may be higher or lower than these values. However, a decision needs to be made with some urgency as to the location of the boundary for the new lot and I believe it is appropriate to adopt the values calculated by Amanda Lee for the purpose of establishing the boundary.

Please ring or email me if you have any queries.

Regards,

Jim Soltau
Principal
Mobile: Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
Toowong, QLD 4066

Please consider the environment before printing this email.

From: Scells, Paul [<mailto:pscells@golder.com.au>]
Sent: Tuesday, 4 September 2012 1:09 PM
To: Jim Soltau
Cc: jim.soltau@aecom.com; 'Tracy Fantin'; col@laundryqld.com.au; 'Jacquie Swinson'; lestar@paelaw.com
Subject: RE: NQ Villas & Hospitality Services (F2131)

Jim

We have reviewed the new "thresholds" developed by AECOM on the basis of current USEPA Integrated Risk Information System toxicity information and agree that this will alter the "interim soil vapour HIL values" to 0.1 mg/m3 for TCE and 2 mg/m3 for PCE.

In order to ensure certainty for all parties involved in this issue could you please confirm with EHP that these will be the accepted remediation criteria for this site and that this will not change over the time period required to achieve subdivisional approvals?

The original investigation plan for this site was based on soil vapour wells being positioned on likely subdivision boundaries to the north, south and east (3 soil vapour wells). The correspondence provided from AECOM suggests possible additional locations. Given the relatively small size of this area and the available MIP data, we consider that 3 soil vapour wells with concentrations below the remediation criteria (one adjacent to each boundary) in total will be suitable for boundary definition. Could you please provide clarification on your expectations for the number of wells that will be required adjacent to each boundary?

Regards

Paul

Paul Scells (BEng MIEAust CPEng) | Principal Engineer | Golder Associates Pty Ltd

216 Draper Street, Cairns, Queensland 4870, Australia (PO Box 5823, Cairns QLD 4870)

T: +61 7 4054 8200 | **D:** +61 7 4054 8211 | **F:** +61 7 4054 8201 | **M:** Section 78B(2) RTI Act | **E:** pscells@golder.com.au | www.golder.com

Winner of 21 BRW Client Choice Awards 2006-2012, including in 2012:
Best Consulting Engineering Firm (revenue \$50m-\$200m), Best Professional Services Firm (revenue \$50m-\$200m), Best Value and Best Firm as rated by the: Property & Construction Sector and Government.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

Any form of review, disclosure, modification, distribution and/or publication of this email message is prohibited, unless as a necessary part of Departmental business.

If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.2197 / Virus Database: 2437/5259 - Release Date: 09/09/12

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.2221 / Virus Database: 2437/5261 - Release Date: 09/10/12

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.2221 / Virus Database: 2437/5261 - Release Date: 09/10/12

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.2221 / Virus Database: 2437/5263 - Release Date: 09/11/12

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.2221 / Virus Database: 2437/5272 - Release Date: 09/16/12

RTI DL RELEASE - EHP

O'Connor Gary

From: O'Connor Gary
Sent: 24 August 2012 12:31 PM
To: Ready Kelli; Delzoppo Lindsay
Cc: Contaminated Land
Subject: RE: Kwikleen & Cairnsvilla Pease Street Cairns
 Kelli & Lindsay

FYI update

The TPR for this site requested a meeting with me seeking advice, as per the TPR procedural guide, in relation to residual groundwater contamination. In summary it has been proposed that Kwikleen purchase an excised portion of the Cairnsvilla caravan park site that is contaminated with chlorinated solvents and Cairnsvilla would then seek to have the balance of its property (with a subsequent separate lot on plan number) removed from the EMR. The excised portion would remain on the EMR and likely to have an SMP requiring ongoing groundwater treatment and restrictions on land use.

The key question was determining the boundary of the excised portion for the long term.

I suggested that the TPR engage a toxicologist/risk assessor regarding determining appropriate soil vapour concentrations for the chlorinated alkanes that would allow residential use. This is a complex area that is being developed in the draft variation to the ASC NEPM but unfortunately is not yet finalised.

I also suggested that a fate and transport model for the chlorinated alkanes be developed to give assurance regarding the long term appropriateness of the boundary.

cheers

goc

Gary O'Connor
 Manager, Project Support, Statewide Environmental Assessment
 Environmental Performance and Coordination Branch
 Environmental Services and Regulation Division
 Department of Environment and Heritage Protection

Telephone: 67 7 3330 5708

Facsimile: 61 7 3330 5754

Mobile: Release

GPO Box 2454 Brisbane QLD 4001
 400 George Street Brisbane

From: O'Connor Gary
Sent: 2 April 2012 11:26 AM
To: Ready Kelli; Delzoppo Lindsay
Subject: Kwikleen & Cairnsvilla Pease Street Cairns

Kelli & Lindsay

FYI

One of the complex sites that Greg O'Brien was managing was Cairnsvilla at Pease Street Cairns, with a neighbouring dry cleaner (Kwikleen). The site is currently a caravan/cabin site with a redevelopment proposed for multiple dwellings. The site was on the EMR for a minor underground fuel storage which was subsequently removed, with the site removed from the EMR. A due diligence assessment some time later involved some boundary groundwater testing which found chlorinated solvents. As a result the site was re-entered on the EMR and subsequently, the dry cleaner was also put on the EMR. A development application was received by DERM in June 2010 (MCU contaminated land concurrence) with typical conditions placed on it with a requirement for a TPR related to having sufficient information for removal from the EMR or a suitable SMP.

The chemicals of concern are DCE, PCE and TCE.

It is likely, but possibly not beyond reasonable doubt, that the chemicals originated from Kwikleen. There has been some co-operation between land owners in assessment and some remedial works conducted by Kwikleen.

DERM concerns have been to ensure that current uses are suitable, that is in the main, that the human health of Cairnsvilla occupiers is protected. Soil vapour monitoring has been conducted, which indicated some potential concerns, but most recently indoor air sampling has been conducted and found concentrations of DCE, PCE and TCE are at acceptable levels.

s.73 Irrelevant information

regards

goc

Gary O'Connor
Manager, Project Support
Environmental Performance and Coordination Branch
Environment and Natural Resource Regulation
Department of Environment and Resource Management

Telephone: 67 7 3330 5708

Facsimile: 61 7 3330 5754

Mobile

sch4p3(3) Prejudice the protection of an individuals right to privacy

email: gary.oconnor@derm.qld.gov.au

GPO Box 2454 Brisbane QLD 4001

Level 8 400 George Street Brisbane

Memorandum

To File

File Reference BNE 76227

From GOC

Subject Kwikwarr Delmarat ~

Date 23/8/12

Golden report 20/8/12

Colin MacDonald - owner Cairns V. Har

engaged Golden to conduct additional
investigation re extent.

Criteria TCE 2 mg/m³

proposed PCE 10 mg/m³

DCE 2 mg/m³

Notes
x has g/w explored
with bore ?
x contaminant transport
model ?
* risk assessment

Tackie

Used as MIP (membrane interface probe) (semi-quantitative)

Stage 1. 29 locations 10 m grid - Fig 3
pushed to depth of 6.5 m

Stage 2 3 more wells vapour points 1.5 m bgl.
sampled 13/8/12 & 30/8/12

G/w also collected

MIP investigation found a zone of
irregular sandy bands in upper 1-2 m of
marine clay @ ~ 7 m

Recovery system off for 3 months.

22/8/12

Met with Terr. Soltau (ex-ETP Advisor)

Noted recovery system was off for
3 months due to power being cut off

① Suggested contaminant transport model

② Given some uncertainty re draft NEPM

VOC HAs (particularly as comments on proposed

HAs were raised) recommended a

health risk assessment review / possibly

Tackie Wright, who is familiar with

NEPM.

O'Connor Gary

From: Jim Soltau [jim@jimsoltau.com]
Sent: 23 August 2012 7:40 AM
To: O'Connor Gary
Subject: FW: Delineation Investigation Report (087673045-033-R/JSB)
Attachments: 087673045-33-R-Rev0 Delineation Investigation.pdf

Gary,

Please find attached the Golders' report delineating the extent of contamination at the caravan park in Cairns.

You can see my preliminary queries to Golders below.

Regards,

Jim Soltau
Principal
Mobile: Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
 Toowong, QLD 4066

Please consider the environment before printing this email.

From: Jim Soltau [mailto:jim@jimsoltau.com]
Sent: Tuesday, 21 August 2012 3:01 PM
To: 'Scells, Paul'
Cc: 'Colin McDonald'
Subject: RE: Delineation Investigation Report (087673045-033-R/JSB)

Paul,

Thanks for sending through the delineation report. I think the approach you took looks to be correct and I agree with your findings and conclusions.

I intend to try to meet with Gary O'Connor of EHP within the next week or so to discuss the findings and get his agreement that the balance of the caravan park can be removed from the EMR after the subdivision is complete. In the meantime, can you provide the following additional information:

- Please confirm that the groundwater recovery system is fully operational and has been turned back on. I agree that at least one additional recovery well is required to be located close to SVW3 and SVW6.
- Please provide a table showing standing water levels and relative levels in AHD. I want to confirm that, when the system was turned off, the groundwater flow direction was still towards the east - northeast.
- Please confirm that both Colin McDonald and the caravan park owners accept that the area of the sub-divided land is approximately 1755 m² and that neither party will request Golders and the TPR to approve a boundary that creates a smaller land parcel.

I will prepare a TPR summary report of your report after I meet with Gary O'Connor.

Please ring or email me if you have any queries. Thanks.

Regards,

Jim Soltau

Principal

Mobile: Section 78B(2) RTI Act

Phone: 07 32026229

Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128

Toowong, QLD 4066

Please consider the environment before printing this email.

From: Scells, Paul [<mailto:pscells@golder.com.au>]

Sent: Monday, 20 August 2012 12:37 PM

To: Colin McDonald; jim@jimsoltau.com

Subject: Delineation Investigation Report (087673045-033-R/JSB)

Please find report attached.

Please do not hesitate to contact me if you wish to discuss any aspects in more detail.

Regards

Paul

Paul Scells (BEng MIEAust CPEng) | Principal Engineer | Golder Associates Pty Ltd
 216 Draper Street, Cairns, Queensland 4870, Australia (PO Box 5823, Cairns QLD 4870)
T: +61 7 4054 8200 | **D:** +61 7 4054 8211 | **F:** +61 7 4054 8201 | **M:** Section 78B(2) RTI Act | **E:**
pscells@golder.com.au | www.golder.com

Winner of 21 BRW Client Choice Awards 2006-2012, including in 2012:

Best Consulting Engineering Firm (revenue \$50m-\$200m), Best Professional Services Firm (revenue \$50m-\$200m), Best Value and Best Firm as rated by the: Property & Construction Sector and Government.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.2197 / Virus Database: 2437/5210 - Release Date: 08/19/12

O'Connor Gary

From: Mack Dreyer [mack@birchwoodenviro.com.au]

Sent: 23 April 2012 7:52 AM

To: 'Jim Soltau'; O'Connor Gary

Cc: pscells@golder.com.au; 'Demillo, Davis'

Subject: RE: Kwikleen/Cairnsvilla options

Jim/Gary/Paul/Davis

I dare say I won't have much involvement from this point going forward as Barana will no doubt rely on DEHP and Jim to ensure that the "new" lot boundary is appropriately located. All I can really add (and it is stating the obvious) is that there also needs to be some assessment as to how far the chlorinated aliphatics will migrate in the groundwater in the future to ensure we don't end up in the same situation we are in now, say 5 years down the track. You might need some form of rudimentary contaminant transport model to assist with this assessment.

Regards

Mack

Mack Dreyer

Principal

P s (07) 3 711 5088 F (07) 3 711 5348
PO Box 2342 Sunnybank Hills 4109

BIRCHWOOD
ENVIRONMENTAL SERVICES PTY LTD

Note: Privileged/confidential information may be contained in this message and may be subject to legal privilege. Access to this e-mail by anyone other than the intended is unauthorised. If you are not the intended recipient (or responsible for delivery of the message to such person), you may not use, copy, distribute or deliver to anyone this message (or any part of its contents) or take any action in reliance on it. In such case, you should destroy this message, and notify us immediately. If you have received this email in error, please notify us immediately by email or telephone and delete the email from any computer. All reasonable precautions have been taken to ensure no viruses are present in this email. As our company cannot accept responsibility for any loss or damage arising from the use of this email or attachments we recommend that you subject these to your virus checking procedures prior to use.

From: Jim Soltau [mailto:jim@jimsoltau.com]

Sent: Friday, 20 April 2012 4:58 PM

To: 'O'Connor Gary'

Cc: pscells@golder.com.au; Demillo, Davis; 'Mack Dreyer'

Subject: RE: Kwikleen/Cairnsvilla options

Gary,

I agree completely. Golder had already advised that they will be doing quite a lot more soil vapour monitoring as part of the assessment to delineate the area that will need to remain on the EMR.

Regards,

Jim Soltau

Principal

Mobile: Section 78B(2) RTI Act

Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
Toowong, QLD 4066

Please consider the environment before printing this email.

From: O'Connor Gary [mailto:Gary.O'Connor@derm.qld.gov.au]
Sent: Friday, 20 April 2012 4:38 PM
To: Jim Soltau
Subject: Kwikleen/Cairnsvilla options

Jim

I had some more thought about the matter we discussed this afternoon, in particular in relation to the chlorinated hydrocarbon work done as part of the variation of the Contaminated sites NEPM project.

My understanding of the emphasis in this work is on soil vapour concentrations of the chlorinated hydrocarbons, rather than the groundwater concentrations. Some soil vapour analyses have been provided to DEHP but I suspect there would be a need for more data, particularly to determine the boundary.

Feel free to call me to discuss.

cheers

goc

Gary O'Connor
Manager, Project Support
Environmental Performance and Coordination Branch

Telephone: 67 7 3330 5708

Facsimile: 61 7 3330 5754

Mobile:

ch4p3(3) Prejudice the protection of an individuals right to privacy

The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

Any form of review, disclosure, modification, distribution and/or publication of this email message is prohibited, unless as a necessary part of Departmental business.

If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2411/4947 - Release Date: 04/19/12

RTI DL RELEASE - EHP

O'Connor Gary

From: Jim Soltau [jim@jimsoltau.com]
Sent: 20 April 2012 4:58 PM
To: O'Connor Gary
Cc: pscells@golder.com.au; Demillo, Davis; 'Mack Dreyer'
Subject: RE: Kwikleen/Cairnsvilla options

Gary,

I agree completely. Golders had already advised that they will be doing quite a lot more soil vapour monitoring as part of the assessment to delineate the area that will need to remain on the EMR.

Regards,

Jim Soltau
Principal

Mobile: Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
Toowong, QLD 4066

Please consider the environment before printing this email.

.. . .

From: O'Connor Gary [mailto:Gary.O'Connor@derm.qld.gov.au]
Sent: Friday, 20 April 2012 4:38 PM
To: Jim Soltau
Subject: Kwikleen/Cairnsvilla options

Jim

I had some more thought about the matter we discussed this afternoon, in particular in relation to the chlorinated hydrocarbon work done as part of the variation of the Contaminated sites NEPM project.

My understanding of the emphasis in this work is on soil vapour concentrations of the chlorinated hydrocarbons, rather than the groundwater concentrations. Some soil vapour analyses have been provided to DEHP but I suspect there would be a need for more data, particularly to determine the boundary.

Feel free to call me to discuss.

cheers

goc

Gary O'Connor
 Manager, Project Support
 Environmental Performance and Coordination Branch

Telephone: 67 7 3330 5708
 Facsimile: 61 7 3330 5754

The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

Any form of review, disclosure, modification, distribution and/or publication of this email message is prohibited, unless as a necessary part of Departmental business.

If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2411/4947 - Release Date: 04/19/12

RTI DL RELEASE - EHP

O'Connor Gary

From: O'Connor Gary
Sent: 20 April 2012 4:38 PM
To: Jim Soltau
Subject: Kwikleen/Cairnsvilla options
Jim

I had some more thought about the matter we discussed this afternoon, in particular in relation to the chlorinated hydrocarbon work done as part of the variation of the Contaminated sites NEPM project.

My understanding of the emphasis in this work is on soil vapour concentrations of the chlorinated hydrocarbons, rather than the groundwater concentrations. Some soil vapour analyses have been provided to DEHP but I suspect there would be a need for more data, particularly to determine the boundary.

Feel free to call me to discuss.

cheers

goc

Gary O'Connor
Manager, Project Support
Environmental Performance and Coordination Branch

Telephone: 67 7 3330 5708

Facsimile: 61 7 3330 5754

Mobile: [REDACTED] ch4p3(3) Prejudice protection of an individuals right to privacy

RTI DL RELEASE - EHP

Date	20/04/2012	Caller Group	Consultant	Action	noting only
Name	jim soltau	Call Type	Contaminated land		
Company					
Phone	() 0	Time	0	Action By	
Caller Com	<p>re cairns kwikleen and Cairnsvilla caravan park. Kwikleen cleanup would cost \$2M (Golder estimate) with most of the costs associated with a barrier. Kwikleen advised it is not able to fund this.</p> <p>Jim suggested that Kwikleen could purchase area that includes plume and a buffer (about 40m) and development could occur on balance. Cairnsvilla were OK with this as were Kwikleen.</p> <p>If Golder, with TPR signoff, could show that balance was not contaminated, would such a plan be acceptable, noting that the current chlorinated alkane recovery options would continue.</p>				
EPA Comme	<p>In principle yes, it would be important for the TPR to be OK with Golder's conclusions on the excised area, and that would need to be supported by data to show it.</p> <p>I suggested it might be advisable to do some in building monitoring at Kwikleen (Jim advised it was empty and drycleaning had ceased there some time ago.)</p>				
					
ID	5468				

O'Connor Gary

From: Jim Soltau [jim@jimsoltau.com]
Sent: 5 April 2012 10:36 AM
To: O'Connor Gary
Subject: Indoor Air Quality Testing, Cairnsvilla, Pease St Cairns (Manoora)
Attachments: 087673045_Draft_SoilVapor&AirQualityResults_2011-12.pdf

Gary,

This for the TPR confirmation of acceptance letter.

Please find attached a figure showing the sampling locations for the indoor air quality. I had not seen this before Monday, but it is dated 22 Feb 12.

Res 2 is located in the "Cabin on Concrete Slab" in the northeast corner of the sampling area. You can just see a little bit of the symbol. I asked Golders on Monday to amend this drawing, but have not replied, so I thought I should send it to you anyway.

Please let me know if you need anything else.

Regards,

Jim Soltau
Principal
Mobil Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates
PO Box 2128
Toowong, QLD 4066

Please consider the environment before printing this email.

From: O'Connor Gary [mailto:Gary.O'Connor@derm.qld.gov.au]

Sent: Monday, 2 April 2012 10:28 AM

To: Jim Soltau

Subject: Confirmation of Acceptance for TPR Kwikleen and Cairnsvilla, Pease St Cairns (Manoora)

Jim

Please find attached confirmation of your acceptance for appointment for the above sites. Letter in the post.

cheers

goc

Gary O'Connor
 Manager, Project Support
 Environmental Performance and Coordination Branch
 Environment and Natural Resource Regulation
 Department of Environment and Resource Management

Telephone: 67 7 3330 5708

Facsimile: 61 7 3330 5754

ch4p3(3) Pre Mobile protection of an individuals right to privacy

email: gary.oconnor@derm.qld.gov.au

GPO Box 2454 Brisbane QLD 4001

Level 8 400 George Street Brisbane

The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

Any form of review, disclosure, modification, distribution and/or publication of this email message is prohibited, unless as a necessary part of Departmental business.

If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2114/4909 - Release Date: 04/01/12

Information contained on this drawing is the copyright of Golder Associates Pty. Ltd. Unauthorised use or reproduction of this plan either wholly or in part without written permission infringes copyright. © Golder Associates Pty. Ltd.



Legend

- ◆ Air Quality Monitoring Locations
- ⊕ Soil Gas Wells
- ⊙ Extraction Sump
- ⊗ Extraction Well
- ⊕ Groundwater Monitoring Well
- - - Area Of Concern
- Pump Pipe Line Connection
- ▨ Residential Features
- ▭ Extraction Trench
- ▭ Kwikleen
- ▭ CaravanPark
- ▭ Digital Cadastral Data

0 5 10 15 20
metres

Note: Datum: GDA94, Projection: MGA, Zone 55

N.B.
1. Base map data copyright Mapinfo Australia Pty Ltd.
2. DCDB copyright The State of Queensland
(Department of Natural Resources, Mines and Water) 2008.
3. Drycleaners site layout derived from CAD drawing -
2007-18 master 03August07 dwg.



CLIENT Hospitality Services		PROJECT Remediation Strategy Update		
DRAWN BAG	DATE 22/02/2012	TITLE Revised Remediation Strategy Soil Vapor Results - December 2011		
CHECKED PKS	DATE 22/02/2012			
SCALE 1:300		PROJECT No 087673045	FIGURE No DRAFT	REV No 0 A3

File Location: S:\GIS_Jobs\Cairns.08\ENV\08\087873045-KwikleenDrycleaners\GIS\ArcGIS\Projects\BAG\RemediationStrategyUpdate\087673045_Draft_SoilVapor&AirQualityResults_2011-12.mxd

● O'Connor Gary

From: O'Connor Gary
Sent: 2 April 2012 11:26 AM
To: Ready Kelli; Delzoppo Lindsay
Subject: Kwikleen & Cairnsvilla Pease Street Cairns
Kelli & Lindsay

FYI

One of the complex sites that Greg O'Brien was managing was Cairnsvilla at Pease Street Cairns, with a neighbouring dry cleaner (Kwikleen). The site is currently a caravan/cabin site with a redevelopment proposed for multiple dwellings. The site was on the EMR for a minor underground fuel storage which was subsequently removed, with the site removed from the EMR. A due diligence assessment some time later involved some boundary groundwater testing which found chlorinated solvents. As a result the site was re-entered on the EMR and subsequently, the dry cleaner was also put on the EMR. A development application was received by DERM in June 2010 (MCU contaminated land concurrence) with typical conditions placed on it with a requirement for a TPR related to having sufficient information for removal from the EMR or a suitable SMP.

The chemicals of concern are DCE, PCE and TCE.

It is likely, but possibly not beyond reasonable doubt, that the chemicals originated from Kwikleen. There has been some co-operation between land owners in assessment and some remedial works conducted by Kwikleen.

DERM concerns have been to ensure that current uses are suitable, that is in the main, that the human health of Cairnsvilla occupiers is protected. Soil vapour monitoring has been conducted, which indicated some potential concerns, but most recently indoor air sampling has been conducted and found concentrations of DCE, PCE and TCE are at acceptable levels.

s.73 Irrelevant information

regards

goc

Gary O'Connor
Manager, Project Support
Environmental Performance and Coordination Branch
Environment and Natural Resource Regulation
Department of Environment and Resource Management

Telephone: 67 7 3330 5708

Facsimile: 61 7 3330 5754

ch4p3(3) Prejudice protection of an individuals right to privacy
Mobile
email: gary.oconnor@derm.qld.gov.au

GPO Box 2454 Brisbane QLD 4001

Level 8 400 George Street Brisbane

RTI DL RELEASE - EHP

2 April 2012

Mr Jim Soltau
Jim Soltau & Associates
PO Box 2128
TOOWONG QLD 4066

Department of
**Environment and Resource
Management**

Dear Mr Soltau

**CONFIRMATION OF ACCEPTANCE AS THIRD PARTY REVIEWER (TPR)
Kwikleen 32-34 Pease Street, Manooro, Lot 1 on RP745758 and Lot 9 on 735336; and
Cairnsvilla and Leisure Park 10-30 Pease Street, Manooro Lot 1 on RP742725**

The Department of Environment and Resource Management (DERM) wishes to confirm your acceptance to act as TPR for the above sites as per your applications of 19 November 2007 and 5 September 2009.

You are reminded that your acceptance is conditional on the following.

1. Approval applies to the subject land only and to site investigation and validation work conducted and certified by persons acceptable to DERM under the provisions of the Environmental Protection Act 1994.
2. The requirements of the Terms of Reference, *Use of a third party reviewer (TPR) for assessment and management of site contamination*, (TOR), June 2010 and any subsequent variations must be complied with in relation to all site activities undertaken.
3. The DERM is to be advised in writing within 5 days of final execution of all contractual documents associated with your engagement by the site owner and other relevant parties.

This acceptance does not infer that your services as TPR will be accepted for any other site. Applications for other sites will be assessed according to the TOR. Should you require any additional information, please contact the undersigned or the relevant DERM project officer.

Yours sincerely,

sch4p3(3) Prejudice the protection of an individuals right to privacy


Gary O'Connor
Manager Project Support
Environment and Natural Resource Regulation

Level 8, 400 George Street, Brisbane
Queensland 4000

GPO Box 2454, Brisbane
Queensland 4001 Australia

Telephone + 61 7 3330 5708
Facsimile + 61 7 3330 5754

Website www.derm.qld.gov.au
ABN 49 641 296 185

O'Connor Gary

From: Soltau, Jim [Jim.Soltau@aecom.com]
Sent: 28 March 2012 2:12 PM
To: O'Connor Gary
Subject: Request for DERM Approval of TPR Role for the Kwikleen Dry Cleaning Site, Pease Street, Cairns

Attachments: Letter to DERM 5Sep09.pdf

Gary,

I have not been able to locate the approval letter from Greg for the Kwikleen site, but I am sure I received one. I have found the letter to Greg requesting the appointment. I hope knowing the date will help you find Greg' letter to me, probably about 3 or 4 days later. If you do the letter, could you please forward a copy? Thanks.

It looks like I only requested to be appointed TPR for Lot 1 on RP745758 on the Kwikleen site, which is on the EMR. s.73 Irrelevant information Although the caravan park site is listed on the EMR, I do not think that Greg included this lot in the TPR appointment.

Regards,

Jim Soltau

D +61 7 3553 3753 M +61 7 3553 3753
s.73 Irrelevant information
 Jim.Soltau@aecom.com

AECOM

Level 8, 540 Wickham Street, Fortitude Valley, QLD 4006
 PO Box 1307 Fortitude Valley QLD 4006
 T +61 7 3553 2000 F +61 7 3553 2050
 www.aecom.com

Please consider the environment before printing this email.

RTI DL RELEASE - EHP

O'Connor Gary

From: Mark Paton
Sent: 20 November 2007 8:23 AM
To: Greg O'Brien
Cc: Gary O'Connor
Subject: RE: TPR application Jim Soltau, L1
RP742725, 10-30 Pease St
Manoora

s.73 Irrelevant information

Regards

Mark Paton
Chief Scientific Advisor
Projects
3224 8006

sch4p3(3) Prejudice the protection of an individuals right to privacy

-----Original Message-----

From: Greg O'Brien
Sent: Monday, 19 November 2007 4:31 PM
To: Gary O'Connor; Mark Paton
Cc: Kim Barry
Subject: TPR application Jim Soltau, L1
RP742725, 10-30 Pease St Manoora

Mark/Gary

This site was removed from the EMR in 2005 after removal and validation of USTs. The site has since been subjected to further investigation and boundary GW has shown presence of dry cleaning chemicals which has led to its relisting. There is not enough to list the adjacent dry cleaning site due to its low level of storage <500L.

The site appears to be within competence and acceptance is recommended. The site and investigations will have to be kept under review as will the need to list the adjacent site.

Mark, Kim has audited a Robin Wagland report.
There are some issues which we plan to discuss
9am this Thursday, 22/11, Gary's office on any
further action needed. Can you attend?

Greg O'Brien
Chief Scientific Advisor, Project Support
Environmental Operations Queensland
Environmental Protection Agency

ph 61 07 32244514
fax 61 07 32277677
Visit us on line: www.epa.qld.gov.au

RTI DL RELEASE - EHP

O'Connor Gary

From: Gary O'Connor
Sent: 19 November 2007 4:47 PM
To: Greg O'Brien; Mark Paton
Cc: Kim Barry
Subject: RE: TPR application Jim Soltau, L1
RP742725, 10-30 Pease St
Manoora

agreed

Gary O'Connor
Manager, Project Support
Integrated Assessment Branch
Environmental Operations
Environmental Protection Agency

Telephone: 61 7 3404 3331

Facsimile: 61 7 3227 7677

sch4p3(3) Modules the protection of an individuals right to privacy
email:gary.oconnor@epa.qld.gov.au
Web:www.epa.qld.gov.au

PO Box 15155

BRISBANE CITY EAST QLD 4002

-----Original Message-----

From: Greg O'Brien
Sent: Monday, 19 November 2007 4:31 PM
To: Gary O'Connor; Mark Paton
Cc: Kim Barry
Subject: TPR application Jim Soltau, L1
RP742725, 10-30 Pease St Manoora

Mark/Gary

This site was removed from the EMR in 2005 after removal and validation of USTs. The site has since been subjected to further investigation and boundary GW has shown presence of dry cleaning chemicals which has led to its relisting. There is not enough to list the adjacent dry cleaning site due to its low level of storage <500L.

The site appears to be within competence and

acceptance is recommended. The site and investigations will have to be kept under review as will the need to list the adjacent site.

Mark, Kim has audited a Robin Wagland report. There are some issues which we plan to discuss 9am this Thursday, 22/11, Gary's office on any further action needed. Can you attend?

Greg O'Brien
Chief Scientific Advisor, Project Support
Environmental Operations Queensland
Environmental Protection Agency

ph 61 07 32244514
fax 61 07 32277677
Visit us on line: www.epa.qld.gov.au

RTI DL RELEASE - EHP

O'Connor Gary

From: Soltau, Jim [jim.soltau@earthtech.com.au]

Sent: 19 November 2007 4:20 PM

To: Greg O'Brien

Subject: RE: TPR Role - Cairnsvilla Caravan Park

Greg,

Sorry I did not include this information. The site is Lot 1 on RP 742725 located at 10 to 30 Pease Street, Manoora.

I have already spoken to Kim about listing the dry cleaners on the EMR. She does not think it can be done based on the information we have to date.

Please ring or email if you have any other queries.

Regards,

Jim Soltau

Senior Principal

Earth Tech Engineering Pty Ltd

T 07 3251 2888

F 07 3852 1740

M Prejudice the protection of an individuals right to privacy

E jim.soltau@earthtech.com.au

From: Greg O'Brien [mailto:Greg.O'Brien@epa.qld.gov.au]

Sent: Monday, 19 November 2007 3:58 PM

To: Soltau, Jim

Subject: RE: TPR Role - Cairnsvilla Caravan Park

Jim

Could you provide the RPD and address with your application.

Greg O'Brien

Chief Scientific Advisor, Project Support

Environmental Operations

Queensland Environmental Protection Agency

ph 61 07 32244514

fax 61 07 32277677

Visit us on line: www.epa.qld.gov.au

From: Soltau, Jim [mailto:jim.soltau@earthtech.com.au]

Sent: Monday, 19 November 2007 2:18 PM

To: Greg O'Brien

Cc: Kim Barry; Lee, Frances; Gentil, Kristelle

Subject: TPR Role - Cairnsvilla Caravan Park

Greg

Please find attached a request to be approved as the TPR for a site in Cairns with impact in groundwater from dry cleaning chemicals.

Mike Bennett has advised me that the EPA is not able to list the adjacent dry cleaning facility on the EMR because the storage of chemicals on site is less than the 500 L threshold to make it a notifiable activity. I would have thought that the significant impact on the groundwater immediately down-gradient of the dry cleaning site would have provided sufficient justification to put the site on the EMR or even the CLR for that matter. I will phone Kim later today to discuss this issue.

Thanks for your prompt response to this request.

Regards,

Jim Soltau
Senior Principal
Earth Tech Engineering Pty Ltd
T 07 3251 2888
F 07 3852 1740

Prejudice the protection of an individuals right to privacy

E jim.soltau@earthtech.com.au

Disclaimer

WARNING: This e-mail (including any attachments) has originated from a Queensland Government department and may contain information that is confidential, private, or covered by legal professional privilege, and may be protected by copyright.

You may use this e-mail only if you are the person(s) it was intended to be sent to and if you use it in an authorised way. No one is allowed to use, review, alter, transmit, disclose, distribute, print or copy this e-mail without appropriate authority. If you have received this e-mail in error, please inform the sender immediately by phone or e-mail and delete this e-mail, including any copies, from your computer system network and destroy any hardcopies.

Unless otherwise stated, this e-mail represents the views of the sender and not the views of the Environmental Protection Agency.

Although this e-mail has been checked for the presence of computer viruses, the Environmental Protection Agency provides no warranty that all viruses have been detected and cleaned. Any use of this e-mail could harm your computer system. It is your responsibility to ensure that this e-mail does not contain and is not affected by computer viruses, defects or interference by third parties or replication problems (including incompatibility with your computer system).

E-mails sent to and from the Environmental Protection Agency will be electronically stored, managed and may be audited, in accordance with the law and Queensland Government Information Standards (IS31, IS38, IS40, IS41 and IS42) to the extent they are consistent with the law.

Memorandum

To File

File Reference _____

From Gen.

Subject Air quality monitoring

Date 28/3/12

Notes

Email from Toxicologist - Golden - no requirement for removal of residents

Golden Report Feb 2012

4 indoor residents - used SUMMA canisters & TO 15

2 ambient

Samples taken for about 24 hrs. (14/2/12)

All indoor results ~~to be sent to the~~ to be sent to the

adv. advised as OK

site group
Rang Tui Soltani
Plan to be supplied.

NERM (3.7.1) TCE Volatile chlorinated

	TR Volatile	TR Non-volatile
TCE	(0.43 $\mu\text{g}/\text{m}^3$)	40 $\mu\text{g}/\text{m}^3$
PCE	200 $\mu\text{g}/\text{m}^3$	250
DCE	30 $\mu\text{g}/\text{m}^3$	
Vinyl Chloride	88 $\mu\text{g}/\text{m}^3$	

Soil Vapor
3 $\mu\text{g}/\text{m}^3$ (includes early leachate)
20 $\mu\text{g}/\text{m}^3$
4 $\mu\text{g}/\text{m}^3$
0.5

TCE non-th

$$\text{HIL } \mu\text{g}/\text{m}^3 = \frac{\text{TR}}{\text{Intake vol} \times \text{TRV}_i}$$

$$3 \mu\text{g}/\text{m}^3 = \frac{\text{TR}}{\text{Intake vol} \times 0.00043}$$

PCE Thres

TR = Target Risk

Plan arrived 5/4/12

WHO Indoor Air quality $10^{-4} = 230 \mu\text{g}/\text{m}^3$

$10^{-5} = 23 \mu\text{g}/\text{m}^3$; $10^{-6} = 2.3 \mu\text{g}/\text{m}^3$

NOHSC TWA 270 $\mu\text{g}/\text{m}^3$

STEL 1080 $\mu\text{g}/\text{m}^3$

NHSL DCE 200 $\mu\text{g}/\text{m}^3$

REL TCE 23 $\mu\text{g}/\text{m}^3$

PCE 200 $\mu\text{g}/\text{m}^3$

Vinyl Chloride 1.1 $\mu\text{g}/\text{m}^3$

Chlorinated alkanes
All al

Naphthalene bgrad elevated as is benzene

6 Reference concentrations for commonly occurring chemicals (2010)

Chemical	IARC group	Current RfC *	Source	Note
Benzene	1	1.7 µg/m ³	WHO 2000	RfC is for a 1x10 ⁻⁵ risk using a unit risk of 6x10 ⁻⁶ per µg/m ³ .
Toluene	3	260 µg/m ³	WHO 2000	This may change to 5000 µg/m ³ based on USEPA IRIS 2010.
Ethyl benzene	2B	1300 µg/m ³	ATSDR 2007	
Xylenes	3	870 µg/m ³	WHO 1997	
Naphthalene	2B	3 µg/m ³	USEPA IRIS	
Chloromethane	3	18 µg/m ³	WHO 2000b	CICAD 28
Dichloromethane	2B	450 µg/m ³	WHO 2000	
Chloroform (trichloromethane)	2B	140 µg/m ³	WHO 2004	CICAD 58
Vinyl chloride (chloroethene)	1	1.1 µg/m ³	USEPA IRIS	RfC is for a 1x10 ⁻⁵ risk using a unit risk of 8.8x10 ⁻⁶ per µg/m ³
1,1-dichloroethene (1,1-DCE)	Not classified	200 µg/m ³	WHO 2003	CICAD 51
Cis-1,2-dichloroethene (DCE)	Not classified	30 µg/m ³	RIVM 2001	
1,2-dichloroethane (EDC)	2B	700 µg/m ³	WHO 2000	Based on non-cancer endpoints
1,1,1,-Trichloroethane (1,1,1-TCA)	3	5000 µg/m ³	USEPA IRIS	
Trichloroethene (TCE)	2A	23 µg/m ³	WHO 2000	RfC is for a 1x10 ⁻⁵ risk using a unit risk of 4.3x10 ⁻⁷ per µg/m ³
Tetrachloroethene (PCE)	2A	200 µg/m ³	WHO 2006	CICAD 68

* Current recommended reference concentration

Note: Health guidance values are valid at the date of release of this document.

Sources:

ATSDR 2007, *Toxicological Profile for Ethylbenzene Draft for Public Comment*, September 2007

RIVM 2001, *Re-evaluation of human-toxicological Maximum Permissible Risk levels*. National Institute of Public Health and the Environment, Bilthoven, The Netherlands, www.rivm.nl/bibliotheek/rapporten/711701025.html

USEPA IRIS database at <http://cfpub.epa.gov/ncea/iris/index.cfm>

WHO 1997, *Air Quality Guidelines* (no longer available on WHO website)

WHO 2000, *Air Quality Guidelines for Europe*. Second Edition, WHO Regional Office for Europe, Copenhagen. WHO European Publication Series No. 91, <http://www.euro.who.int/en/what-we-do/health-topics/environmental-health/air-quality/publications/pre2009/air-quality-guidelines-for-europe>

O'Connor Gary

From: Jim Soltau [jim@jimsoltau.com]
Sent: 26 March 2012 4:39 PM
To: O'Connor Gary
Subject: FW: 087673045-027 Air Quality Monitoring Final Report (NATA Accredited)
Attachments: 087673045-027-R-Rev0-Combined.pdf; WorkOrderResults 3 .xls; 087673045 - Air Quality Monitoring Results Review

Gary,

I s.73 Irrelevant information only listened to your phone message from Friday about an hour ago. That prompted me to realise that I had not sent you any more info about the caravan park and dry cleaning sites since I sent you the soil vapour sample results.

I have attached Golder's "factual" report regarding the indoor air quality and a couple of other bits of info. I will phone you now.

Regards,

Jim Soltau
Principal
Mobile Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
Toowong, QLD 4066

Please consider the environment before printing this email.

From: Demillo, Davis [mailto:DDemillo@golder.com.au]
Sent: Wednesday, 29 February 2012 1:00 PM
To: jim@jimsoltau.com; Mack Dreyer
Cc: 'Colin McDonald'; cmcd13@bigpond.com; Scells, Paul
Subject: 087673045-027 Air Quality Monitoring Final Report (NATA Accredited)

Jim/Mack

Attached is the NATA accredited factual report prepared by Golder for air quality monitoring at the Caravan Park site. Contained within this report is also the final amended analytical report from ALS.

Regards

Davis Demillo (BEng (Hons)) | Senior Environmental Engineer | **Golder Associates Pty Ltd**
 216 Draper Street, Cairns, Queensland 4870, Australia (PO Box 5823, Cairns QLD 4870)
 T: +61 7 4054 8200 | D: +61 7 4054 8212 | F: +61 7 4054 8201 | M: +61 427 824 669 | E:
 DDemillo@golder.com.au | www.golder.com

Winner of 16 BRW Client Choice Awards 2011-2006, including in 2011:
Best Consulting Engineering Firm (revenue \$50m-\$200m) and Best Provider as rated by the: Mining Industry; Property & Construction Sector; and Government & Community Sector.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

From: Hicks, Sue
Sent: Wednesday, 29 February 2012 11:31 AM
To: Demillo, Davis
Subject: Report

Hi Davis,

Please see attached electronic copy of the above report.

If you have any queries, please don't hesitate to call us.

Kind regards,
 Sue

Sue Hicks | Administration Assistant | **Golder Associates Pty Ltd**
 Building 7, Botanicca Corporate Park, 570 – 588 Swan Street, Richmond, Victoria 3121, Australia (PO Box 6079, Hawthorn West VIC 3122)
T: +61 3 8862 3500 | **D:** +61 3 8862 3657 | **F:** +61 3 8862 3501 | **M:** +61 | **E:** shicks@golder.com.au |
www.golder.com

Winner of 16 BRW Client Choice Awards 2011-2006, including in 2011:

Best Consulting Engineering Firm (revenue \$50m-\$200m) and Best Provider as rated by the: Mining Industry; Property & Construction Sector; and Government & Community Sector.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2114/4894 - Release Date: 03/25/12

O'Connor Gary

From: Demillo, Davis [DDemillo@golder.com.au]
Sent: 22 February 2012 12:00 PM
To: jim@jimsoltau.com; Mack Dreyer; Andrew Urquhart; 'Colin McDonald'; cmcd13@bigpond.com
Cc: Scells, Paul
Subject: 087673045 - Air Quality Monitoring Results Review
Importance: High

Jim, Mack, Andrew and Colin,

Please be advised that one of our senior toxicologists has reviewed the preliminary air quality monitoring results for tetrachloroethene, trichloroethene, cis-dichloroethene and related chlorinated hydrocarbons (ie dichloroethane and vinyl chloride). Based on the air concentrations of the above mentioned compounds, we consider that there is no immediate risk of adverse health effects occurring in residents of the caravan park. Immediate evacuation is not required to protect against adverse health effects. This is preliminary advice intended to address immediate health concerns.

Regards

Davis Demillo (BEng (Hons)) | Senior Environmental Engineer | **Golder Associates Pty Ltd**
 216 Draper Street, Cairns, Queensland 4870, Australia (PO Box 5823, Cairns QLD 4870)
T: +61 7 4054 8200 | **D:** +61 7 4054 8212 | **F:** +61 7 4054 8201 | **M:** Section 78B(2) RTI Act | **E:**
DDemillo@golder.com.au | www.golder.com

Winner of 16 BRW Client Choice Awards 2011-2006, including in 2011:
Best Consulting Engineering Firm (revenue \$50m-\$200m) and Best Provider as rated by the: Mining Industry; Property & Construction Sector; and Government & Community Sector.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2113/4823 - Release Date: 02/21/12

	Sub Matrix			AIR	AIR	AIR	AIR	AIR	AIR	AIR
	Client Sample 1			12-100	12-101	12-102	Dec-96	Dec-97	Dec-98	Dec-99
	Client Sample 2			4748 - RES DUP (3)	4778 - AMBIENT 1	4773 - AMBIENT 2	4976 - RES 1	4987 - RES 2	4974 - RES 3	4780 - RES 4
	Sample Date			15/02/2012 13:00	15/02/2012 13:00	15/02/2012 13:00	15/02/2012 13:00	15/02/2012 13:00	15/02/2012 13:00	15/02/2012 13:00
Method	Analyte	Units	LOR	EN1200643001	EN1200643002	EN1200643003	EN1200643004	EN1200643005	EN1200643006	EN1200643007
		Dilution		0.1266	0.1289	0.1848	0.1824	0.1665	0.1651	0.1929

USEPA Air Toxics Method TO15r

EP101-15X	Freon 12	ppbv	0.1	0.8	1	0.8	0.9	0.9	0.7	1
EP101-15X	Chloromethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Freon 114	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Vinyl chloride	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Bromomethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Chloroethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Freon 11	ppbv	0.1	0.4	0.7	0.3	0.4	0.4	0.4	0.3
EP101-15X	1,1-Dichloroethene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Dichloromethane	ppbv	0.1	1.4	1.5	0.9	0.8	1.7	1.8	1.8
EP101-15X	Freon 113	ppbv	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
EP101-15X	1,1-Dichloroethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	cis-1,2-Dichloroethene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Chloroform	ppbv	0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.2	0.4
EP101-15X	1,2-Dichloroethane	ppbv	0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1
EP101-15X	1,1,1-Trichloroethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Benzene	ppbv	0.1	2.2	6.2	0.3	0.6	0.4	5	0.4
EP101-15X	Carbon Tetrachloride	ppbv	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
EP101-15X	1,2-Dichloropropane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Trichloroethene	ppbv	0.1	<0.1	0.1	0.2	0.1	0.1	0.1	0.1
EP101-15X	cis-1,3-Dichloropropylene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	trans-1,3-Dichloropropene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	1,1,2-Trichloroethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Toluene	ppbv	0.1	17.6	50.8	1.4	2.1	2.4	14.7	2.2
EP101-15X	1,2-Dibromoethane (EDB)	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Tetrachloroethene	ppbv	0.1	0.4	0.8	0.2	0.4	<0.1	0.2	0.2
EP101-15X	Chlorobenzene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Ethylbenzene	ppbv	0.1	4	5.3	0.2	0.3	0.3	1.8	0.2
EP101-15X	meta- & para-Xylene	ppbv	0.1	17	21.6	0.8	1	1.2	6.7	0.9
EP101-15X	Styrene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
EP101-15X	1,1,2,2-Tetrachloroethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	ortho-Xylene	ppbv	0.1	6	6.5	0.3	0.3	0.4	2	0.3
EP101-15X	4-Ethyltoluene	ppbv	0.1	0.3	1	<0.1	<0.1	<0.1	0.3	<0.1
EP101-15X	1,3,5-Trimethylbenzene	ppbv	0.1	0.6	1.3	<0.1	<0.1	<0.1	0.4	<0.1
EP101-15X	1,2,4-Trimethylbenzene	ppbv	0.1	2	5.2	0.3	0.3	0.4	1.5	0.3
EP101-15X	1,3-Dichlorobenzene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Benzylchloride	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	1,4-Dichlorobenzene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	1,2-Dichlorobenzene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	1,2,4-Trichlorobenzene	ppbv	0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
EP101-15X	Hexachlorobutadiene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
EP101-15X	Acetone	ppbv	0.1	15.5	10	9.9	11.2	4.4	32.2	5.3
EP101-15X	Bromodichloromethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	1,3-Butadiene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Carbon disulfide	ppbv	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EP101-15X	2-Chlorotoluene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	1-Chloro-2-propene (Allyl chloride)	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Cyclohexane	ppbv	0.1	7.8	14.5	0.3	0.5	0.5	3.9	0.5
EP101-15X	Dibromochloromethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	1,4-Dioxane	ppbv	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Ethylacetate	ppbv	0.1	0.6	0.3	<0.1	0.2	<0.1	7.9	0.2
EP101-15X	trans-1,2-Dichloroethene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Highlighted Results

OVER RANGE -
CONFIRMATION
REQUIRED

Conversion Factor
to µg/m3 at STP

NSW

4.95
2.07
6.99
2.56
3.88
2.64
5.62
3.97
3.48
7.66
4.05
3.97
4.88
4.05
5.46
3.19
6.29
4.62
5.37
4.54
4.54
5.46
3.77
7.68
6.78
4.60
4.34
4.34
4.26
6.87
4.34
4.92
4.92
4.92
6.01
5.18
6.01
6.01
7.42
10.67
2.38
6.70
2.21
3.11
5.18
3.13
3.44
8.52
3.60
3.60
3.96

450 ✓

140 ✓

5000 ✓
1.7

23 ✓

260 ✓

1300 ✓
870 ✓

870 ✓

EP101-15X	Heptane	ppbv	0.1	4.8	3.4	<0.1	0.3	0.2	1.1	0.2
EP101-15X	Hexane	ppbv	0.1	11.2	42.2	0.8	0.8	1.2	10.4	0.9
EP101-15X	Isooctane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
EP101-15X	Isopropyl Alcohol	ppbv	0.1	3.3	3.6	1	1.9	0.7	10.4	2.3
EP101-15X	2-Butanone (MEK)	ppbv	0.1	1.2	1.9	0.3	0.9	0.5	3.9	0.4
EP101-15X	Methyl iso-Butyl ketone	ppbv	0.1	0.1	0.4	<0.1	<0.1	<0.1	0.1	<0.1
EP101-15X	2-Hexanone (MBK)	ppbv	0.1	0.1	<0.1	0.1	<0.1	<0.1	0.2	<0.1
EP101-15X	Propene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Methyl tert-Butyl Ether (MTBE)	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Tetrahydrofuran	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Bromoform	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Vinyl Acetate	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Vinyl bromide	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Ethanol	ppbv	0.1	11.8	12.5	1.9	151	2.2	806	14.6
EP101-15X	Acetonitrile	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Acrolein	ppbv	0.1	4.2	<0.1	0.6	2	0.6	10.1	0.6
EP101-15X	Acrylonitrile	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	tert-Butyl alcohol	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	2-Chloro-1.3-butadiene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Di-isopropyl Ether	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Ethyl tert-Butyl Ether (ETBE)	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	tert-Amyl Methyl Ether (TAME)	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Methyl Methacrylate	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	1.1.1.2-Tetrachloroethane	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Isopropylbenzene	ppbv	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	n-Propylbenzene	ppbv	0.1	0.3	0.7	<0.1	<0.1	<0.1	0.2	<0.1
EP101-15X	tert-Butylbenzene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	sec-Butylbenzene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	2-isopropyltoluene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	n-Butylbenzene	ppbv	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP101-15X	Naphthalene	ppbv	0.1	1.7	1.9	0.7	0.3	1.9	1.7	0.4

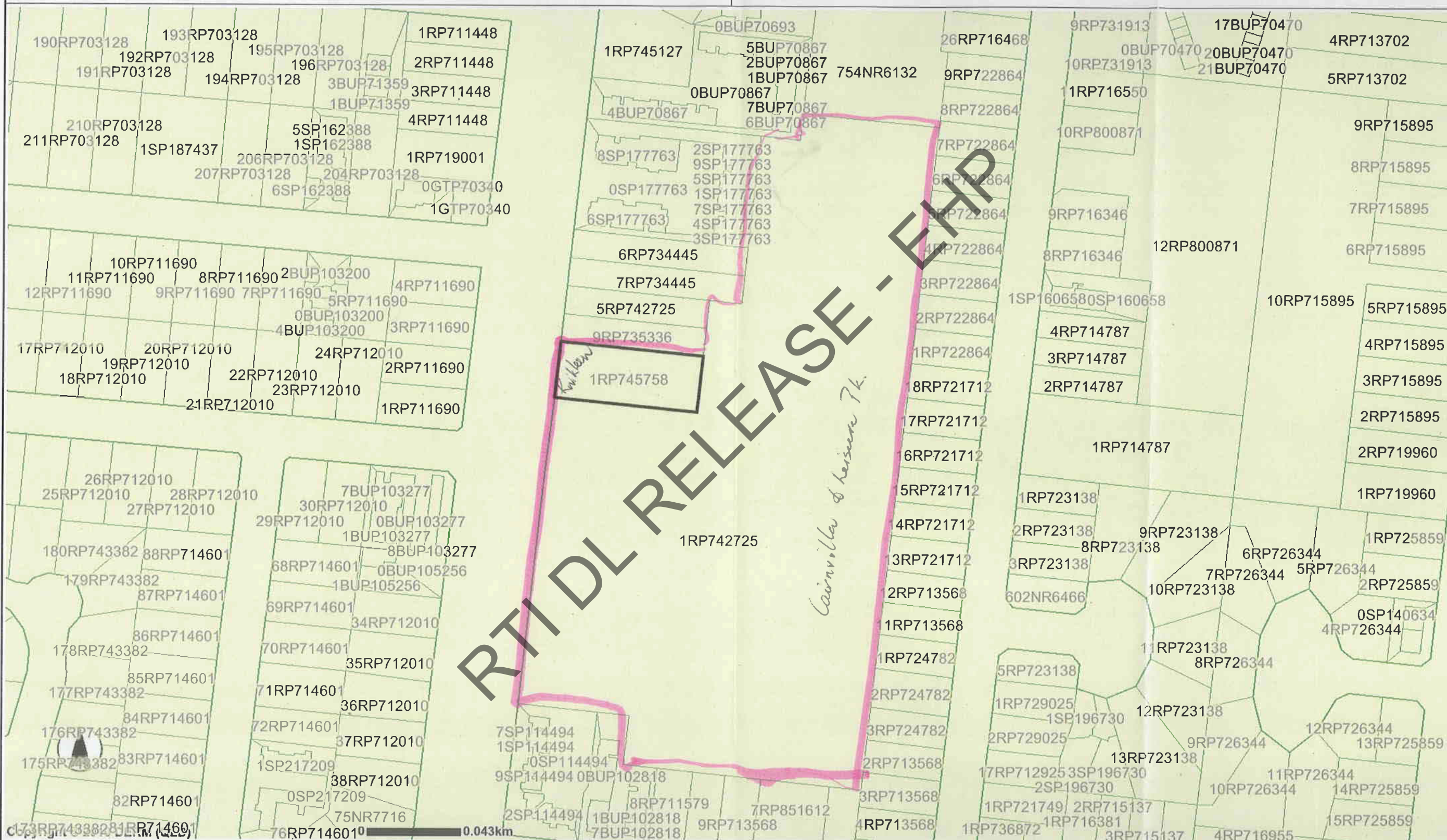
USEPA Air Toxics Method TO15r (Mass/Volume)

EP101-15X-MV	Freon 12	µg/m³	2.5	4.0	4.9	4.0	4.5	4.5	3.5	4.9
EP101-15X-MV	Chloromethane	µg/m³	1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Freon 114	µg/m³	3.5	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Vinyl chloride	µg/m³	1.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Bromomethane	µg/m³	1.9	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Chloroethane	µg/m³	1.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Freon 11	µg/m³	2.8	2.2	3.9	1.7	2.2	2.2	2.2	1.7
EP101-15X-MV	1.1-Dichloroethene	µg/m³	2	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Dichloromethane	µg/m³	1.7	4.9	5.2	3.1	2.8	5.9	6.3	6.3
EP101-15X-MV	Freon 113	µg/m³	3.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
EP101-15X-MV	1.1-Dichloroethane	µg/m³	2	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	cis-1.2-Dichloroethene	µg/m³	2	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Chloroform	µg/m³	2.4	#VALUE!	#VALUE!	#VALUE!	1.5	#VALUE!	1.0	2.0
EP101-15X-MV	1.2-Dichloroethane	µg/m³	2	#VALUE!	#VALUE!	#VALUE!	1.6	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1.1.1-Trichloroethane	µg/m³	2.7	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Benzene	µg/m³	1.6	7.0	19.8	1.0	1.9	1.3	16.0	1.3
EP101-15X-MV	Carbon Tetrachloride	µg/m³	3.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
EP101-15X-MV	1.2-Dichloropropane	µg/m³	2.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Trichloroethene	µg/m³	2.7	#VALUE!	0.5	1.1	0.5	0.5	0.5	0.5
EP101-15X-MV	cis-1.3-Dichloropropylene	µg/m³	2.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	trans-1.3-Dichloropropene	µg/m³	2.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1.1.2-Trichloroethane	µg/m³	2.7	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Toluene	µg/m³	1.9	66.3	191.4	5.3	7.9	9.0	55.4	8.3
EP101-15X-MV	1.2-Dibromoethane (EDB)	µg/m³	3.8	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Tetrachloroethene	µg/m³	3.4	2.7	5.4	1.4	2.7	#VALUE!	1.4	1.4
EP101-15X-MV	Chlorobenzene	µg/m³	2.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Ethylbenzene	µg/m³	2.2	17.4	23.0	0.9	1.3	1.3	7.8	0.9

4.10
3.52
4.67
2.46
2.95
4.10
4.10
1.72
3.61
2.95
10.34
3.52
4.37
1.88
1.68
2.29
2.17
3.03
3.62
4.18
4.18
4.18
6.87
4.92
4.92
5.49
5.49
5.49
5.49
5.24

3

EP101-15X-MV	meta- & para-Xylene	µg/m³	4.3	73.8	93.8	3.5	4.3	5.2	29.1	3.9
EP101-15X-MV	Styrene	µg/m³	2.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	1.3
EP101-15X-MV	1,1,2,2-Tetrachloroethane	µg/m³	3.4	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	ortho-Xylene	µg/m³	2.2	26.1	28.2	1.3	1.3	1.7	8.7	1.3
EP101-15X-MV	4-Ethyltoluene	µg/m³	2.5	1.5	4.9	#VALUE!	#VALUE!	#VALUE!	1.5	#VALUE!
EP101-15X-MV	Total Xylenes	µg/m³	5.5	2.5	6.4	#VALUE!	#VALUE!	#VALUE!	2.0	#VALUE!
EP101-15X-MV	1,3,5-Trimethylbenzene	µg/m³	2.5	9.8	25.6	1.5	1.5	2.0	7.4	1.5
EP101-15X-MV	1,2,4-Trimethylbenzene	µg/m³	2.5	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1,3-Dichlorobenzene	µg/m³	3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Benzylchloride	µg/m³	2.6	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1,4-Dichlorobenzene	µg/m³	3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1,2-Dichlorobenzene	µg/m³	3	1.5	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1,2,4-Trichlorobenzene	µg/m³	3.7	#VALUE!	#VALUE!	#VALUE!	#VALUE!	0.7	#VALUE!	#VALUE!
EP101-15X-MV	Hexachlorobutadiene	µg/m³	5.3	36.8	23.8	23.5	26.6	10.5	76.5	3.2
EP101-15X-MV	Acetone	µg/m³	1.2	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	12.6
EP101-15X-MV	Bromodichloromethane	µg/m³	3.4	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1,3-Butadiene	µg/m³	1.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Carbon disulfide	µg/m³	1.6	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	2-Chlorotoluene	µg/m³	2.6	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1-Chloro-2-propene (Allyl chloride)	µg/m³	1.6	26.8	49.9	1.0	1.7	1.7	13.4	1.7
EP101-15X-MV	Cyclohexane	µg/m³	1.7	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Dibromochloromethane	µg/m³	4.3	0.7	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1,4-Dioxane	µg/m³	1.8	2.2	1.1	#VALUE!	0.7	#VALUE!	28.5	0.7
EP101-15X-MV	Ethylacetate	µg/m³	1.8	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	trans-1,2-Dichloroethene	µg/m³	2	19.7	13.9	#VALUE!	1.2	0.8	4.5	0.8
EP101-15X-MV	Heptane	µg/m³	2	39.5	148.7	2.8	2.8	4.2	36.7	3.2
EP101-15X-MV	Hexane	µg/m³	1.8	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Isooctane	µg/m³	2.3	8.1	8.8	2.5	4.7	1.7	25.6	5.7
EP101-15X-MV	Isopropyl Alcohol	µg/m³	1.2	3.5	5.6	0.9	2.7	1.5	11.5	1.2
EP101-15X-MV	2-Butanone (MEK)	µg/m³	1.5	0.4	1.6	#VALUE!	#VALUE!	#VALUE!	0.4	#VALUE!
EP101-15X-MV	Methyl iso-Butyl ketone	µg/m³	2	0.4	#VALUE!	0.4	#VALUE!	#VALUE!	0.8	#VALUE!
EP101-15X-MV	2-Hexanone (MBK)	µg/m³	2	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Propene	µg/m³	0.9	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Methyl tert-Butyl Ether (MTBE)	µg/m³	1.8	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Tetrahydrofuran	µg/m³	1.5	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Bromoform	µg/m³	5.2	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Vinyl Acetate	µg/m³	1.8	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Vinyl bromide	µg/m³	2.2	22.2	23.6	3.6	284.5	4.1	1518.7	27.5
EP101-15X-MV	Methanol	µg/m³	0.7	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Ethanol	µg/m³	0.9	9.6	#VALUE!	1.4	4.6	1.4	23.2	1.4
EP101-15X-MV	Acetonitrile	µg/m³	0.8	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Acrolein	µg/m³	1.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Acrylonitrile	µg/m³	1.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	tert-Butyl alcohol	µg/m³	1.5	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	2-Chloro-1,3-butadiene	µg/m³	1.8	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Di-isopropyl Ether	µg/m³	2.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Ethyl tert-Butyl Ether (ETBE)	µg/m³	2.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	tert-Amyl Methyl Ether (TAME)	µg/m³	2.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	Methyl Methacrylate	µg/m³	2.1	1.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	1,1,1,2-Tetrachloroethane	µg/m³	3.4	1.5	3.4	#VALUE!	#VALUE!	#VALUE!	1.0	#VALUE!
EP101-15X-MV	Isopropylbenzene	µg/m³	2.5	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	n-Propylbenzene	µg/m³	2.5	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	tert-Butylbenzene	µg/m³	2.7	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	sec-Butylbenzene	µg/m³	2.7	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
EP101-15X-MV	2-isopropyltoluene	µg/m³	2.7	8.9	10.0	3.7	1.6	10.0	8.9	2.1
EP101-15X-MV	n-Butylbenzene	µg/m³	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EP101-15X-MV	Naphthalene	µg/m³	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USEPA Air Toxics Method TO15r Surrogates										
EP101-15X	4-Bromofluorobenzene	%	0.1	97.4	109	97.5	102	99	109	94.8



©Queensland Department of Environment and Resource Management 2010. While every care is taken to ensure the accuracy of this product, the Department of Environment and Resources Management makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

O'Connor Gary

From: Gary O'Connor
Sent: 19 November 2007 4:47 PM
To: Greg O'Brien; Mark Paton
Cc: Kim Barry
Subject: RE: TPR application Jim Soltau, L1
RP742725, 10-30 Pease St
Manoora

agreed

Gary O'Connor
Manager, Project Support
Integrated Assessment Branch
Environmental Operations
Environmental Protection Agency

Telephone: 61 7 3404 3331
Facsimile: 61 7 3227 7677

sch4p3(3) Mobile: the protection of an individuals right to privacy
email: gary.oconnor@epa.qld.gov.au
Web: www.epa.qld.gov.au

PO Box 15155
BRISBANE CITY EAST QLD 4002

-----Original Message-----

From: Greg O'Brien
Sent: Monday, 19 November 2007 4:31 PM
To: Gary O'Connor; Mark Paton
Cc: Kim Barry
Subject: TPR application Jim Soltau, L1
RP742725, 10-30 Pease St Manoora

Mark/Gary

This site was removed from the EMR in 2005 after removal and validation of USTs. The site has since been subjected to further investigation and boundary GW has shown presence of dry cleaning chemicals which has led to its relisting. There is not enough to list the adjacent dry cleaning site due to its low level of storage <500L.

The site appears to be within competence and

acceptance is recommended. The site and investigations will have to be kept under review as will the need to list the adjacent site.

Mark, Kim has audited a Robin Wagland report. There are some issues which we plan to discuss 9am this Thursday, 22/11, Gary's office on any further action needed. Can you attend?

Greg O'Brien
Chief Scientific Advisor, Project Support
Environmental Operations Queensland
Environmental Protection Agency

ph 61 07 32244514
fax 61 07 32277677
Visit us on line: www.epa.qld.gov.au

RTI DL RELEASE - EHP

O'Connor Gary

From: Jim Soltau [jim@jimsoltau.com]
Sent: Monday, 6 February 2012 6:39 AM
To: O'Connor Gary
Cc: Barry Kim
Subject: RE: Soil Vapour Results - December 2011 - Cairns Caravan Park
Attachments: 087673045 Table 1_December_2011_Results.pdf;
 087673045_Draft_Figure_SoilVaporResults_2011-12.pdf

Gary.

As requested, please find attached the up-to-date groundwater monitoring results. The soil vapour results figure shows the location of the key wells.

Recently, the concentrations have been fluctuating, but all results have improved over the last year or so.

Golders should produce a groundwater monitoring report in the near future. I will forward that to DERM after I review it.

Please let me know if you require any other information at this time.

Regards,

Jim Soltau
Principal
 Mobile Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
 Toowong, QLD 4066

Please consider the environment before printing this email.

From: O'Connor Gary [mailto:Gary.O'Connor@derm.qld.gov.au]
Sent: Friday, 3 February 2012 4:29 PM
To: Jim Soltau
Cc: Barry Kim
Subject: RE: Soil Vapour Results - December 2011 - Cairns Caravan Park

Thanks Jim for the information.

Please continue to keep DERM informed on progress of this matter. Also, given the soil vapour results, if you would please email the up to date groundwater monitoring results for the site.

cheers

goc

Gary O'Connor
 Manager, Project Support
 Environmental Performance and Coordination Branch
 Environment and Natural Resource Regulation

Department of Environment and Resource Management

Telephone: 67 7 3330 5708

Facsimile: 61 7 3330 5754

sch4p3(3) Pre Mobile protection of an individuals right to privacy

email: gary.oconnor@derm.qld.gov.au

GPO Box 2454 Brisbane QLD 4001

Level 8 400 George Street Brisbane

From: Jim Soltau [<mailto:jim@jimsoltau.com>]
Sent: Friday, 3 February 2012 10:04 AM
To: O'Connor Gary; Barry Kim
Subject: FW: Soil Vapour Results - December 2011 - Cairns Caravan Park

Gary and Kim,

As I am now carrying out this TPR role through Jim Soltau & Associates, I am resending this notification from my Jim Soltau email address. I should not have notified you from my AECOM email address for this particular project.

I also advise that Golders have proposed a plan to conduct indoor air monitoring next week in the four residences closest to the soil vapour plume in the caravan park and will also conduct further soil vapour sampling to more accurately delineate the extent of the impact.

Under Section 4.1 of the Third Party Reviewer Terms of Reference (June 2010), "The TPR must ...advise DERM of unexpected contamination or health and environmental concerns which arise during the remediation."

As TPR for the Kwikleen Dry Cleaner site in Cairns, I am advising DERM that Golders have been conducting groundwater monitoring and groundwater remediation at the dry cleaning site and the adjacent caravan park for more than two years. In conformance with draft NEPM guidelines, Golders installed four soil vapour monitoring wells in the caravan park in December 2011 and collected four vapour samples for analysis. A figure showing the location of the four wells and the analytical results are attached.

All four soil vapour results exceed the Residential A & B interim soil gas HILs for PCE as presented in Table 1A(2) of Schedule B1 of the draft NEPM. Because of these results exceed these HIL's, I thought there was a requirement to notify DERM of this potential health concern. As these results have only recently been received, Golder's are preparing a plan to move forward and will provide advice as to what, if any, management measures may need to be introduced at the caravan park to ensure the safety of the residents. Because Golder's are committed to address this issue in more detail, I do not think that DERM needs to take any further action at this time.

I note that the footnote for Table 1A(2) states that the "interim soil HILs are conservative soil gas concentrations that can be adopted for the purpose of screening sites where further investigation is required on a site specific basis." This quite clearly indicates that there is no reason to be too concerned just because these screening levels are exceeded. It indicates that further assessment is required if these levels are exceeded to determine what risk, if any, exists in a particular site specific scenario.

Please ring or email me if you have any queries.

Regards,

Regards,

Jim Soltau
Principal
 Mobile: Section 78B(2) RTI Act
Phone: 07 32026229
Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128
Toowong, QLD 4066

Please consider the environment before printing this email.

From: Gilchrist, Brynnin [<mailto:BGilchrist@golder.com.au>]
Sent: Wednesday, 25 January 2012 11:26 AM
To: cmcd13@bigpond.com; Soltau, Jim
Cc: Demillo, Davis; Scells, Paul
Subject: Soil Vapour Results - December 2011

Dear Colin & Jim,
 Please find attached the results of the soil vapour samples collected in December 2011.

Please note that Davis Demillo will be returning from leave on Monday 30th January 2012 and he will formulate an action plan to move forward from here on his return.

Please feel free to contact myself or Paul Scells should you have any queries relating to this correspondence.

Regards

Brynnin Gilchrist (BSc (Environmental Earth Science)) | Environmental Scientist & GIS Analyst |
Golder Associates Pty Ltd
 216 Draper Street, Cairns, Queensland 4870, Australia (PO Box 5823, Cairns QLD 4870)
T: +61 7 4054 8200 | D: +61 7 4054 8202 | F: +61 7 4054 8201 | M: Section 78B(2) RTI Act **E:**
BGilchrist@golder.com.au | www.golder.com

Winner of 16 BRW Client Choice Awards 2011-2006, including in 2011:
Best Consulting Engineering Firm (revenue \$50m-\$200m) and Best Provider as rated by the: Mining Industry; Property & Construction Sector; and Government & Community Sector.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2112/4781 - Release Date: 02/02/12

The information in this email together with any attachments is intended only for the person or entity to which it is addressed and may contain confidential and/or privileged material. There is no waiver of any confidentiality/privilege by your inadvertent receipt of this material.

Any form of review, disclosure, modification, distribution and/or publication of this email message is prohibited, unless as a necessary part of Departmental business.

If you have received this message in error, you are asked to inform the sender as quickly as possible and delete this message and any copies of this message from your computer and/or your computer system network.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2112/4781 - Release Date: 02/02/12

RTI DL RELEASE - EHP

		ChemName	cis-1,2-Dichloroethene	Trichloroethylene	Tetrachloroethene
		output unit	µg/l	µg/l	µg/l
		LOR	5	5	5
Field_ID	Sampled_Date	SDG			
MW5CP*	Apr-07	Douglas Partners	92	350	1000
MW5CP	Jul-07	Le Vert	80	462	1480
MW5CP	Oct-07	Le Vert	94	929	1980
MW5CP	Mar-08	Le Vert	63	39	73
MW5CP	30/04/2009	SE68964	<5	<5	<5
MW5CP	28/09/2009	SE72570	220	1700	1700
MW5CP	19/10/2009	SE73085	270	1800	1400
MW5CP	30/10/2009	SE73401-R2	110	1200	1000
MW5CP	1/12/2009	SE74208-R	320	1500	1800
MW5CP	9/02/2010	SE78787	250	700	1300
MW5CP	17/06/2010	SE79195	0.5	3.6	12
MW5CP	14/07/2010	SE79886	14	40	56
MW5CP	18/08/2010	SE80754-R	DRY	DRY	DRY
MW5CP	21/10/2010	SE82422	<0.5	3.6	13
MW5CP	23/11/2010	SE83518	1	4	10
MW5CP	6/01/2011	SE84456	8.9	93	240
MW5CP	17/02/2011	Could not be sampled	-	-	-
MW5CP	17/03/2011	SE85297	24	38.0	130
MW5CP	30/05/2011	SE87927	11	24.0	15
MW5CP	29/06/2011	SE88590	57	81.0	650
MW5CP	29/07/2011	SE89143	2.8	14.0	14
MW5CP	31/08/2011	SE101504	37	110.0	97
MW5CP	30/09/2011	SE102344	100	180.0	320
MW5CP	31/10/2011	SE102988	3.2	10	22
MW5CP	25/11/2011	SE103639	<0.5	27	69
MW5CP	13/12/2011	SE104058	1.3	8	29
MW6CP*	Apr-07	Douglas Partners	<0.5	20	70
MW6CP	Jul-07	Le Vert	8	8	<5
MW6CP	Oct-07	Le Vert	DRY	DRY	DRY
MW6CP	Mar-08	Le Vert	<0.5	1	1
MW6CP	30/04/2009	SE68964	<5	7.5	5.6
MW6CP	28/09/2009	SE72570	DRY	DRY	DRY
MW7CP	Oct-07	Le Vert	<5	8	<5
MW7CP	Mar-08	Le Vert	1	2.1	11
MW7CP	30/04/2009	SE68964	<5	<5	<5
MW7CP	28/09/2009	SE72570	DRY	DRY	DRY
MW8CP	Oct-07	Le Vert	<5	<5	<5
MW8CP	Mar-08	Le Vert	<0.5	<0.5	<0.5
MW8CP	30/04/2009	SE68964	<5	<5	<5
MW8CP	29/09/2009	SE72570	<5	<5	<5
MW9CP	Oct-07	Le Vert	<5	<5	<5
MW9CP	Mar-08	Le Vert	<0.5	<0.5	<0.5
MW9CP	30/04/2009	SE68964	<5	7.1	5.6
MW9CP	28/09/2009	SE72570	<5	<5	<5
MW10CP	Oct-07	Le Vert	<5	<5	<5
MW10CP	Mar-08	Le Vert	1300	<0.5	2.6
MW10CP	30/04/2009	SE68964	<5	<5	8
MW10CP	28/09/2009	SE72570	<5	<5	<5
MW11CP	5/05/2010	SE77981	140	630	2200
MW11CP	19/05/2010	SE78399	140	670	3000
MW11CP	17/06/2010	SE79195	110	270	2500
MW11CP	14/07/2010	SE79886	94	550	2500
MW11CP	18/08/2010	SE80754-R	61	540	3000
MW11CP	21/09/2010	SE81813	52	580	3400
MW11CP	21/10/2010	SE82422	47	500	1500
MW11CP	23/11/2010	SE83518	71	100	1700
MW11CP	6/01/2011	SE84456	59	90	3100
MW11CP	17/02/2011	SE85555	65	530	1600
MW11CP	17/03/2011	SE85297	59	440	1100
MW11CP	30/05/2011	SE87927	100	850	840
MW11CP	29/06/2011	SE88590	64	680	1100
MW11CP	29/07/2011	SE89143	79	290	500
MW11CP	31/08/2011	SE101504	25	190	270
MW11CP	30/09/2011	SE102344	56	610	1100
MW11CP	31/10/2011	SE102988	31	250	390
MW11CP	25/11/2011	SE103639	10	730	1100
MW11CP	13/12/2011	SE104058	51	690	1000
MW12CP	5/05/2010	SE77981	300	1600	3800
MW12CP	19/05/2010	SE78399	270	1600	4100
MW12CP	17/06/2010	SE79195	270	1200	2200
MW12CP	14/07/2010	SE79886	220	2000	2500
MW12CP	18/08/2010	SE80754-R	180	1100	2600
MW12CP	21/09/2010	SE81813	150	1200	3400
MW12CP	21/10/2010	SE82422	130	570	1200
MW12CP	23/11/2010	SE83518	110	790	1400
MW12CP	6/01/2011	SE84456	57	760	1500
MW12CP	17/02/2011	SE85555	300	370	3800
MW12CP	17/03/2011	SE85297	91	400	1000
MW12CP	30/05/2011	SE87927	140	620	3400
MW12CP	29/06/2011	SE88590	190	740	1700
MW12CP	31/08/2011	SE101504	120	240	420
MW12CP	30/09/2011	SE102344	140	700	1400
MW12CP	31/10/2011	SE102988	1.1	2	5.4
MW12CP	25/11/2011	SE103639	110	660	1400
MW12CP	13/12/2011	SE104058	82	430	1300
MW13CP	5/05/2010	SE77981	25	160	440
MW13CP	19/05/2010	SE78399	29	120	350
MW13CP	17/06/2010	SE79195	14	67	190
MW13CP	14/07/2010	SE79886	14	110	180
MW13CP	18/08/2010	SE80754-R	8.1	100	220
MW13CP	21/09/2010	SE81813	16	58	160
MW13CP	21/10/2010	SE82422	25	91	110
MW13CP	23/11/2010	SE83518	30	130	120
MW13CP	6/01/2011	SE84456	32	210	150
MW13CP	17/02/2011	SE85555	23	81	65
MW13CP	17/03/2011	SE85297	19	69	85
MW13CP	30/05/2011	SE87927	15	49	49
MW13CP	29/06/2011	SE88590	9.8	58	52
MW13CP	29/07/2011	SE89143	2.7	14	9.3
MW13CP	31/08/2011	SE101504	11	13	5.5
MW13CP	30/09/2011	SE102344	20	50	30
MW13CP	31/10/2011	SE102988	13	52	23
MW13CP	25/11/2011	SE103639	15	73	27
MW13CP	13/12/2011	SE104058	19	64	23
Trench Pump	23/11/2010	SE83518	1100	1000	8600
Trench Pump	6/01/2011	SE84456	410	770	5500
Trench Pump	17/02/2011	Could not be sampled	-	-	-
Trench Pump	17/03/2011	SE85297	100	140	220
Trench Pump	30/05/2011	SE87927	960	740	14000
Trench Pump	29/06/2011	SE88590	160	190	1800
Trench Pump	29/07/2011	SE89143	100	140	780
Trench Pump	31/08/2011	SE101504	90	110	290
Trench Pump	30/09/2011	SE102344	150	270	650
Trench Pump	31/10/2011	SE102988	260	260	2000
Trench Pump	25/11/2011	SE103639	100	370	730
Trench Pump	13/12/2011	SE104058	32	110	230

Notes

All results are expressed as µg/L unless otherwise specified

* Values transposed to be consistent with later monitoring rounds

RED text indicates samples post commencing remediation in MW4KX

PURPLE text indicates samples post installation of 3 additional extraction pumps in MW5CP, MW11CP & MW12CP

BLUE text indicates samples post installation of the extraction Trench Pump

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

HAC's - HALOGENATED ALIPHATIC COMPOUNDS

KWIKLEEN DRY CLEANERS

PEASE STREET

087673045

Input By: BAG
Date: 10/01/2012
Checked By: PK/DO
Date: 10/01/2012

J:\Env\2008\087673045 - Kwikleen Dry Cleaners, Pease St\Technical Doc\Tables\11212_13 Dec 2011\087673045 Table 1_December_2011_Results.xlsx

6,1412 mg/L
1280 mg/L
15 mg/L

Density
1.46 g/ml

		ChemName	cis-1,2-Dichloroethene	Trichloroethylene	Tetrachloroethene
		output unit	µg/l	µg/l	µg/l
		LOR	5	5	5
Field_ID	Sampled_Date	SDG			
MW1KK	30/04/2009	SE68964	5.1	26	8.5
MW1KK	28/09/2009	SE72570	44	500	90
MW1KK	9/02/2010	SE75787	36	400	400
MW1KK	17/08/2010	SE79195	30	340	53
MW1KK	14/07/2010	SE79866	24	360	88
MW1KK	18/08/2010	SE80754-R	21	390	55
MW1KK	21/09/2010	SE81613	34	460	80
MW1KK	21/10/2010	SE82422	25	330	27
MW1KK	23/11/2010	SE83518	26	340	33
MW1KK	6/01/2011	SE84456	9.5	280	28
MW1KK	17/02/2011	SE85555	9.7	82	8.8
MW1KK	17/03/2011	SE86297	6.4	120	12
MW1KK	30/05/2011	SE87927	15	160	15
MW1KK	29/08/2011	SE88590	10	200	13
MW1KK	29/07/2011	SE89143	6.1	44	4.8
MW1KK	31/08/2011	SE101504	6.5	33	2.8
MW1KK	30/09/2011	SE102344	16	130	6.5
MW1KK	31/10/2011	SE102988	12	100	9
MW1KK	25/11/2011	SE103639	14	120	7.5
MW1KK	13/12/2011	SE104058	<5	120	7.3
MW2KK	30/04/2009	SE68964	<5	<5	86
MW2KK	28/09/2009	SE72570	5.7	51	12
MW3KK	30/04/2009	SE68964	<5	<5	49
MW3KK	28/09/2009	SE72570	<5	8.8	150
MW3KK	9/02/2010	SE75787	1.3	6.8	120
MW4KK	30/04/2009	SE68964	640	550	1000
MW4KK	28/09/2009	SE72570	720	980	1300
MW4KK	16/10/2009	SE73085	660	970	2200
MW4KK	30/10/2009	SE73401-R2	700	1300	1900
MW4KK	1/12/2009	SE74208-R	1400	1700	3400
MW4KK	9/02/2010	SE75787	1300	1600	6700
MW4KK	19/05/2010	SE78399	1100	1300	11000
MW4KK	17/05/2010	SE79195	760	1100	13000
MW4KK	14/07/2010	SE79866	760	1100	14000
MW4KK	18/08/2010	SE80754-R	1200	1300	13000
MW4KK	21/09/2010	SE81613	1600	1300	14000
MW4KK	21/10/2010	SE82422	1300	540	11000
MW4KK	23/11/2010	SE83518	1800	560	12000
MW4KK	6/01/2011	SE84456	650	280	730
MW4KK	17/02/2011	SE85555	510	160	4700
MW4KK	17/03/2011	SE86297	330	62	160
MW4KK	30/05/2011	SE87927	2600	830	890
MW4KK	29/08/2011	SE88590	1100	610	21000
MW4KK	29/07/2011	SE89143	1000	310	2400
MW4KK	31/08/2011	SE101504	1200	290	2800
MW4KK	30/09/2011	SE102344	1800	850	14000
MW4KK	31/10/2011	SE102988	1000	560	10000
MW4KK	25/11/2011	SE103639	1000	540	11000
MW4KK	13/12/2011	SE104058	830	440	6800
MW1CP	Apr-07	Douglas Partners	20	36	520
MW1CP	Jul-07	Le Vert	68	85	765
MW1CP	Oct-07	Le Vert	52	225	329
MW1CP	Mar-08	Le Vert	11	8.7	8.2
MW1CP	30/04/2009	SE68964	120	170	160
MW1CP	28/09/2009	SE72570	100	160	170
MW1CP	16/10/2009	SE73085	190	290	240
MW1CP	30/10/2009	SE73401-R2	61	180	130
MW1CP	1/12/2009	SE74208-R	59	99	240
MW1CP	9/02/2010	SE75787	4.2	7.6	31
MW1CP	17/06/2010	SE79195	20	69	110
MW1CP	14/07/2010	SE79866	140	83	140
MW1CP	18/08/2010	SE80754-R	59	78	200
MW1CP	21/09/2010	SE81613	91	58	160
MW1CP	21/10/2010	SE82422	54	56	380
MW1CP	23/11/2010	SE83518	130	150	590
MW1CP	6/01/2011	SE84456	4.6	7.2	65
MW1CP	17/02/2011	SE85555	2.6	8.7	16
MW1CP	17/03/2011	SE86297	<0.5	<0.5	6
MW1CP	30/05/2011	SE87927	240	64	110
MW1CP	29/08/2011	SE88590	4	6.6	33
MW1CP	29/07/2011	SE89143	160	16	36
MW1CP	31/08/2011	SE101504	230	32	44
MW1CP	30/09/2011	SE102344	220	70	54
MW1CP	31/10/2011	SE102988	43	9.2	45
MW1CP	25/11/2011	SE103639	84	37	84
MW1CP	13/12/2011	SE104058	110	51	89
MW2CP	Apr-07	Douglas Partners	31	110	360
MW2CP	Jul-07	Le Vert	222	170	520
MW2CP	Oct-07	Le Vert	291	814	2070
MW2CP	Mar-08	Le Vert	20	16	62
MW2CP	30/04/2009	SE68964	150	210	650
MW2CP	28/09/2009	SE72570	250	1400	850
MW2CP	16/10/2009	SE73085	130	610	1600
MW2CP	30/10/2009	SE73401-R2	69	410	870
MW2CP	1/12/2009	SE74208-R	200	440	3200
MW2CP	9/02/2010	SE75787	300	730	2600
MW2CP	5/05/2010	SE77581	140	830	4400
MW2CP	19/05/2010	SE78399	270	1900	3400
MW2CP	17/09/2010	SE79195	130	600	1900
MW2CP	14/07/2010	SE79866	150	580	2400
MW2CP	18/08/2010	SE80754-R	140	770	3400
MW2CP	21/09/2010	SE81613	200	410	7100
MW2CP	21/10/2010	SE82422	76	240	2600
MW2CP	23/11/2010	SE83518	80	200	2600
MW2CP	6/01/2011	SE84456	87	49	220
MW2CP	17/02/2011	SE85555	420	630	1700
MW2CP	17/03/2011	SE86297	150	64	180
MW2CP	30/05/2011	SE87927	190	600	3000
MW2CP	29/08/2011	SE88590	100	510	3100
MW2CP	29/07/2011	SE89143	79	120	800
MW2CP	31/08/2011	SE101504	56	200	610
MW2CP	30/09/2011	SE102344	110	440	2100
MW2CP	31/10/2011	SE102988	180	120	460
MW2CP	25/11/2011	SE103639	300	220	880
MW2CP	13/12/2011	SE104058	200	300	1300
MW3CP	Apr-07	Douglas Partners	38	160	210
MW3CP	Jul-07	Le Vert	43	293	288
MW3CP	Oct-07	Le Vert	26	309	358
MW3CP	Mar-08	Le Vert	6.3	6.3	6.9
MW3CP	30/04/2009	SE68964	<50	210	110
MW3CP	28/09/2009	SE72570	26	170	86
MW3CP	9/02/2010	SE75787	27	65	75
MW4CP	Apr-07	Douglas Partners	6	7	110
MW4CP	Jul-07	Le Vert	36	24	171
MW4CP	Oct-07	Le Vert	<0.5	<0.5	10
MW4CP	Mar-08	Le Vert	1.6	0.6	3.8
MW4CP	30/04/2009	SE68964	<5	<5	<5
MW4CP	28/09/2009	SE72570	DRY	DRY	DRY

Information contained on this drawing is the copyright of Golder Associates Pty. Ltd. Unauthorised use, or reproduction of this plan, either wholly or in part without written permission infringes copyright. © Golder Associates Pty. Ltd.



NB 1. Base map data copyright MapInfo Australia Pty Ltd. 2. DOCS copyright The State of Queensland (Department of Natural Resources, Mines and Water) 2008. 3. Drycleaners site layout derived from CAD drawing - 2007-18 master 03August07.dwg		CLIENT Hospitality Services		PROJECT Remediation Strategy Update	
		DRAWN BAG	DATE 25/01/2012	TITLE Revised Remediation Strategy Soil Vapor Results - December 2011	
		CHECKED PKS	DATE 25/01/2012	PROJECT No 087673045	
		SCALE 1:150		FIGURE No DRAFT	REVISED 0 A3

O'Connor Gary

From: O'Connor Gary
Sent: Friday, 3 February 2012 4:29 PM
To: 'Jim Soltau'
Cc: Barry Kim
Subject: RE: Soil Vapour Results - December 2011 - Cairns Caravan Park

Thanks Jim for the information.

Please continue to keep DERM informed on progress of this matter. Also, given the soil vapour results, if you would please email the up to date groundwater monitoring results for the site.

cheers

goc

Gary O'Connor
 Manager, Project Support
 Environmental Performance and Coordination Branch
 Environment and Natural Resource Regulation
 Department of Environment and Resource Management

Telephone: 67 7 3330 5708

Facsimile: 61 7 3330 5754

ch4p3(3) Pre Mobile protection of an individuals right to privacy

email: gary.oconnor@derm.qld.gov.au

GPO Box 2454 Brisbane QLD 4001

Level 8 400 George Street Brisbane

From: Jim Soltau [mailto:jim@jimsoltau.com]
Sent: Friday, 3 February 2012 10:04 AM
To: O'Connor Gary; Barry Kim
Subject: FW: Soil Vapour Results - December 2011 - Cairns Caravan Park

Gary and Kim,

As I am now carrying out this TPR role through Jim Soltau & Associates, I am resending this notification from my Jim Soltau email address. I should not have notified you from my AECOM email address for this particular project.

I also advise that Golders have proposed a plan to conduct indoor air monitoring next week in the four residences closest to the soil vapour plume in the caravan park and will also conduct further soil vapour sampling to more accurately delineate the extent of the impact.

Under Section 4.1 of the Third Party Reviewer Terms of Reference (June 2010), "The TPR must ...advise DERM of unexpected contamination or health and environmental concerns which arise during the remediation."

As TPR for the Kwikleen Dry Cleaner site in Cairns, I am advising DERM that Golder's have been conducting groundwater monitoring and groundwater remediation at the dry cleaning site and the adjacent caravan park for more than two years. In conformance with draft NEPM guidelines, Golder's installed four soil vapour monitoring wells in the caravan park in December 2011 and collected four vapour samples for analysis. A figure showing the location of the four wells and the analytical results are attached.

All four soil vapour results exceed the Residential A & B interim soil gas HILs for PCE as presented in Table 1A(2) of Schedule B1 of the draft NEPM. Because of these results exceed these HIL's, I thought there was a requirement to notify DERM of this potential health concern. As these results have only recently been received, Golder's are preparing a plan to move forward and will provide advice as to what, if any, management measures may need to be introduced at the caravan park to ensure the safety of the residents. Because Golder's are committed to address this issue in more detail, I do not think that DERM needs to take any further action at this time.

I note that the footnote for Table 1A(2) states that the "interim soil HILs are conservative soil gas concentrations that can be adopted for the purpose of screening sites where further investigation is required on a site specific basis." This quite clearly indicates that there is no reason to be too concerned just because these screening levels are exceeded. It indicates that further assessment is required if these levels are exceeded to determine what risk, if any, exists in a particular site specific scenario.

Please ring or email me if you have any queries.

Regards,

Regards,

Jim Soltau

Principal

Mobile: Section 78B(2) RTI Act

Phone: 07 32026229

Email: jim@jimsoltau.com

Jim Soltau & Associates

PO Box 2128

Toowong, QLD 4066

Please consider the environment before printing this email.

From: Gilchrist, Brynnin [<mailto:BGilchrist@golder.com.au>]

Sent: Wednesday, 25 January 2012 11:26 AM

To: cmcd13@bigpond.com; Soltau, Jim

Cc: Demillo, Davis, Scells, Paul

Subject: Soil Vapour Results - December 2011

Dear Colin & Jim,

Please find attached the results of the soil vapour samples collected in December 2011.

Please note that Davis Demillo will be returning from leave on Monday 30th January 2012 and he will formulate an action plan to move forward from here on his return.

Please feel free to contact myself or Paul Scells should you have any queries relating to this correspondence.

Regards

Brynnin Gilchrist (BSc (Environmental Earth Science)) | Environmental Scientist & GIS Analyst | Golder Associates Pty Ltd

216 Draper Street, Cairns, Queensland 4870, Australia (PO Box 5823, Cairns QLD 4870)

T: +61 7 4054 8200 | D: +61 7 4054 8202 | F: +61 7 4054 8201 | M: Section 78B(2) RTI Act E:

BGilchrist@golder.com.au | www.golder.com

Winner of 16 BRW Client Choice Awards 2011-2006, including in 2011:

Best Consulting Engineering Firm (revenue \$50m-\$200m) and Best Provider as rated by the: Mining Industry; Property & Construction Sector; and Government & Community Sector.

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon. Any advice provided in or attached to this email is subject to limitations.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2112/4781 - Release Date: 02/02/12

RTI DL RELEASE - EHP

Annemarie Lewis

From: Paul Butcher
Sent: Wednesday, 19 September 2007 12:49 PM
To: Annemarie Lewis
Subject: Lot 1 on RP745758 notification

Attachments:

Notification L1 on RP742725.doc + Lot 1 RP745758

Hi Annemarie,

I have just realised that the above lot was listed recently as owner notified. This was not the case. I decided to list it based on the info provided for the listing of the site next door (owner notified). Can you please relist as a U notice so they can have a right of reply? Thanks.

Regards

Paul Butcher

Environmental Officer
Waste and Contaminated Land Unit
Environmental Protection Agency
ph: (07)3225 8416
fax: (07)3247 3278
Email: paul.butcher@epa.qld.gov.au



Notification L1 on
RP742725.do...

Changed U Notice
to
19/9/07

RTI DL RELEASE - EHP

sch4p3(3) Prejudice the protection of an individuals right to privacy

FILE NOTE



Queensland Government
Environmental Protection Agency
Incorporating the
Queensland Parks and Wildlife Service

Enquiries
Telephone
Your reference
Our reference

Paul Butcher
(07) 3225 8416

20 July 2007

To: Karen Francis, Acting Registrar
From: Paul Butcher, Environmental Officer
Subject: Notification - Lot 1 on RP742725 and Lot 1 on RP745758

*Entered as N in
ERROR.
Reissued as U
Notice
19/9/07*

Hi Karen,

sch4p3(3) Prejudice the protection of an individuals right to p

s.73 Irrelevant information

Further, it is noted that the lot next door is a Dry Cleaners but is not on the EMR. Please list this lot – **Lot 1 on RP745758** – for NA 12 – Dry Cleaning. The business name is Kwikleen Drycleaners and Launderers.

Please refer any future correspondence regarding these sites to myself.

Thanks,

Paul

Paul Butcher
Environmental Officer