Re: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Date:

Tuesday, 16 January 2018 at 12:45:39 PM New Zealand Daylight Time

From:

Anne Bardsley

To:

Erina Mayo

Attachments: image001.png

Hi Erina

Many thanks for getting back to me. I just left another phone message, saying that I will be away for a few days so maybe we can try to talk next week - Wednesday perhaps?

Anyway, it is good to be in touch, I'm sure we'll be able to arrange a meeting soon. I just need to gather enough information to put together a detailed outline for Minister Twyford by early Feb, so we have some wiggle room.

Cheers

Anne

From: Erina Mayo

Date: Tuesday, 16 January 2018 at 12:22 PM

To: Anne Bardsley ·

Subject: RE: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Hi Anne

Sorry for the delay in responding, I have been out of the office at scenes.

I am more than happy to be contacted in relation to this. I would be happy to meet in person, or if you prefer to discuss over the phone then that is fine also. I can be contacted on (

I am in meetings most of today, but am available tomorrow and Friday and also Thursday morning.

Kind regards

Erina Mayo

Erina Mayo BSc, MSc (Hons)

Team Leader, Clandestine Drug Laboratory

Forensic Drug Chemistry

Institute of Environmental Science and Research Limited (ESR)

Mt Albert Science Centre: 120 Mt Albert Road, Sandringham, Auckland 1025

Private Bag 92021, Auckland 1142, New Zealand



From: Anne Bardsley [mailto:a.bardsley@auckland.ac.nz]

Sent: Tuesday, 16 January 2018 11:57 AM **To:** Erina Mayo < Erina. Mayo@esr.cri.nz>

Subject: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Hi Erina,

I left a phone message yesterday; this is just a follow-up message. I'm beginning work on a review of the methamphetamine contamination situation in the NZ housing stock (both Housing NZ and private), interpreting the new standards, and explaining health risks. The review has been requested of our office by the Minister of Housing, Hon Phil Twyford. I will be gathering data from Housing NZ as well as the National Drug Intelligence Bureau, and will be speaking with various stakeholders to get their views and input.

I have already spoken at length with Dr Nick Kim and have received some documents from him. I asked him for recommendations of others to speak to and he specifically mentioned your name as someone who has done a lot of testing and would have a good perspective on the situation from the ESR viewpoint.

If you could provide a phone number and let me know when is best to contact you, I would be very grateful.

Many thanks Anne

Anne Bardsley, PhD Research Analyst

Office of the Prime Minister's Chief Science Advisor I 85 Park Rd, Grafton I Auckland 1023 New Zealand Phone 09 923 6346 I Mobile 027 630 2296 I www.pmcsa.org.nz

The information contained in this message and/or attachments from ESR is intended solely for the addressee and may contain confidential and/or privileged material. If you are not the intended recipient, any review, disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited by ESR. If you have received this message in error, please notify the sender immediately.

Re: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Date:

Wednesday, 24 January 2018 at 10:37:30 AM New Zealand Daylight Time

From:

Anne Bardsley

To:

Erina Mayo

Attachments: image001.png

Hi Erina – sorry I just noticed that my reply yesterday had not been sent. Yes I can come to ESR 1:30pm on Tuesday.

See you then.

Cheers

Anne

Anne Bardsley, PhD Research Analyst

Office of the Prime Minister's Chief Science Advisor | 85 Park Rd, Grafton | Auckland 1023 New Zealand

From: Erina Mayo

Date: Tuesday, 23 January 2018 at 3:12 PM

To: Anne Bardsley

Subject: RE: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

How does 1.30pm suit? It would be great if you could come to ESR!

Cheers Erina

From: Anne Bardsley

Sent: Tuesday, 23 January 2018 1:26 PM

To: Erina Mayo

Subject: Re: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Ok what time is best? And should I come to you?

From: Erina Mayo

Date: Tuesday, 23 January 2018 at 1:25 PM

To: Anne Bardsley

Subject: RE: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Hi Anne

Tuesday afternoon is fine with me.

Cheers Erina

From: Anne Bardsley

Sent: Tuesday, 23 January 2018 1:07 PM

To: Erina Mayo

Subject: Re: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Hi Erina

I will be in Wellington on Thursday and Friday so we will have to make it next week. Shall we try for Tuesday afternoon so that if that falls through we have options later in the week?

Cheers

Anne

From: Erina Mayo

Date: Tuesday, 23 January 2018 at 12:19 PM

To: Anne Bardsley <

Subject: RE: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Hi Anne

I have been called out to a 5am scene tomorrow that is likely to take all day so I won't be able to meet with you tomorrow. I am available after 2pm Thursday or anytime Friday, however I am on call so may need to postpone at short notice if a scene is called in. Otherwise, next week suits...anytime Tuesday, Wednesday afternoon or anytime Thursday/Friday.

Cheers Erina

From: Anne Bardsley

Sent: Tuesday, 23 January 2018 11:59 AM

To: Erina Mayo

Subject: Re: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Hi Erina

I'm back in Auckland and sorting out my schedule. It would be great to meet tomorrow afternoon if you still can. Should I come to your office? I generally take the bus to work (we are situated at the Medical School in Grafton) but can drive in tomorrow so that I can get down to you, unless you are likely to be out and about and can stop in here.

Just let me know what time and where you would like to meet.

Many thanks in advance,

Anne

From: Erina Mayo

Date: Tuesday, 16 January 2018 at 2:23 PM

To: Anne Bardsley

Subject: RE: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Hi Anne

Next week is fine with me. Anytime Wednesday afternoon suits.

Cheers Erina

From: Anne Bardsley

Sent: Tuesday, 16 January 2018 12:46 PM

To: Erina Mayo

Subject: Re: Methamphetamine review - Office of the Prime Minister's Chief Science Advisor

Hi Erina

Subject: Re: Meth testing

Date: Tuesday, 30 January 2018 at 9:25:06 AM New Zealand Daylight Time

From: Anne Bardsley

To: Erina Mayo

Many thanks Erina – see you in a few hours.

Cheers Anne

From: Erina Mayo

Date: Tuesday, 30 January 2018 at 9:24 AM

To: Anne Bardsley

Subject: RE: Meth testing

Hi Anne

The entrance is at 120 Mt Albert Road and as you come down the driveway you turn right at the bottom and then curve left down the hill. Our reception area is directly to your left and there should be some visitor parks available there for you to park in. Once you get to reception they will let you know how to check in and they will let me know you have arrived!

Cheers Erina

----Original Appointment-----

From: Anne Bardsley

Sent: Monday, 29 January 2018 3:50 PM

To: Anne Bardsley; Erina Mayo

Subject: Meth testing

When: Tuesday, 30 January 2018 1:30 PM-2:30 PM (UTC+12:00) Auckland, Wellington.

Where: ESR - 120 Mt Albert Rd, Sandringham

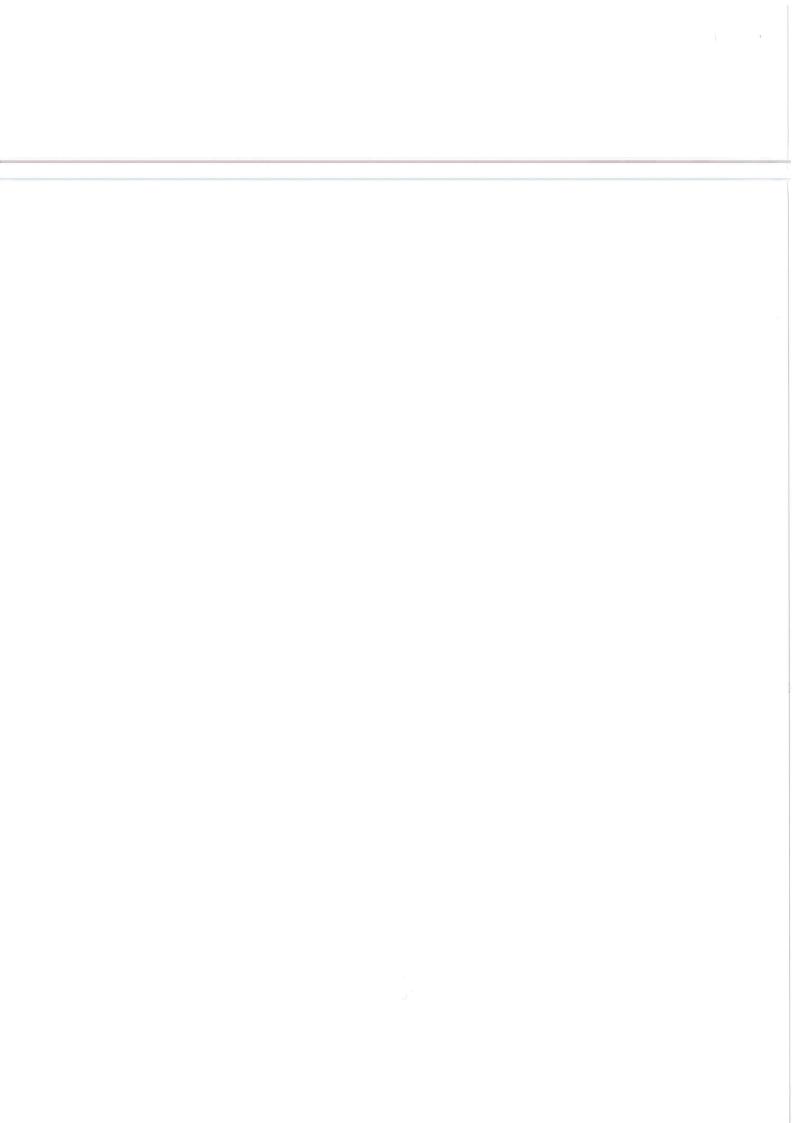
Hi Erina

I thought I should send a meeting request so the time is held free. Please let me if anything has changed for you. Also, I'm not really sure how to get into ESR and where to park – google maps is somewhat unhelpful! I don't see where the entrance is. If you can give me a clue that would be great.

Many thanks

Anne

The information contained in this message and/or attachments from ESR is intended solely for the addressee and may contain confidential and/or privileged material. If you are not the intended recipient, any review, disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited by ESR. If you have received this message in error, please notify the sender immediately.



Subject: Re: Meth testing

Date: Friday, 2 March 2018 at 2:31:18 PM New Zealand Daylight Time

From: Anne Bardsley
To: Erina Mayo

Thanks that's great. I look forward to hearing from you.

Cheers Anne

From: Erina Mayo <

Date: Friday, 2 March 2018 at 2:30 PM

To: Anne Bardsley

Subject: RE: Meth testing

Hi Anne

Yes Kevan let me know you were it touch which was great. I advised him that I could put the information together for him for you, so it is all under control. Glad you got the information you needed from Jeff also.

Cheers Erina

From: Anne Bardsley

Sent: Friday, 2 March 2018 2:26 PM

To: Erina Mayo

Subject: Re: Meth testing

Many thanks Erina, and sorry to have pestered you!

I had a talk with Kevan Walsh last week - have you talked to him? He is putting some info together for some other questions I asked, but I also forwarded the set of questions I asked you, so if you are not already doing so it might pay to coordinate with him.

Re the questions on the 2016 ESR review, Chris Nokes has provided answers from Jeff Fowles, so we're all good there.

Many many thanks for your help.

Cheers

Anne

From: Erina Mayo

Date: Friday, 2 March 2018 at 2:22 PM

To: Anne Bardsley

Subject: RE: Meth testing

Hi Anne

Sorry that this response is so late, I have been out of the office most of the past two weeks for various reasons, including carrying out a 4 day audit in Hamilton.

I am working on putting together answers to all your questions and hope to have this with you by Monday afternoon.

I hope you are managing to progress well with this project.

Cheers Erina

From: Anne Bardsley

Sent: Wednesday, 21 February 2018 1:34 PM

To: Erina Mayo **Cc:** Felicia Low <

Subject: Re: Meth testing

Hi again Erina

In asking some questions of the Ministry of Health, I was put in contact with Chris Nokes at ESR who should be able to answer our questions about the 2016 review of the MoH guidelines, so you can probably ignore that part of my list of questions!

I am still hoping to hear more about the report to $(5^{9(2)})$, info about par bombs and thresholds for assuming a site was a clan lab, and any background info re how the meth calculator was generated.

Many thanks

Anne

From: Anne Bardsley

Date: Monday, 19 February 2018 at 3:58 PM

To: Erina Mayo • **Cc:** Felicia Low

Subject: Re: Meth testing

Hi again Erina –

I forgot to ask another important question. I see that the Meth Calculator is still up online but there is no real explanation of the results that I can see.

I am very curious to know more about the background data that backs up the calculator – can you provide anything?

Thanks again

Anne

From: Anne Bardsley

Date: Monday, 19 February 2018 at 3:34 PM

To: Erina Mayo **Cc:** Felicia Low

Subject: Re: Meth testing

Hi Erina

I've been meaning to get back to you with a few questions to follow up after our meeting. My colleague Dr Felicia Low is helping with our report and we have been discussing the outstanding issues that need a bit of clarification.

Firstly, you mentioned that methamphetamine production has been moving towards contained ('par bomb') methods that do not produce as much residue. Do you have any stats on the prevalence of parbomb labs vs uncontained production? We would like to get a handle on the prevalence of finding other toxic chemicals during clan lab investigations.

You also mentioned that when testing at suspected labs, and in the absence of obvious tell-tale signs, you don't typically confirm that a site was an ex-lab unless the levels were $^{\sim}30~\mu g/100~cm2$. Can you tell us more about the basis for this threshold? And does this account for the percentage of clan lab investigations that are not deemed as clan labs (according to the NDIB data we discussed)?

Felicia noted the following in the ESR 2017 Annual Report:

"Using data sourced from Housing New Zealand, our Forensic Drugs team identified differential markers for contamination of smoking versus cooking and the extent of property remediation required for contaminated houses."

Is this part of the report (\S) (b) that we discussed?

The Annual Report goes on to say that:

"ESR's recommendations will help guide clean-up efforts based on an appropriate assessment of risk and will contribute to the country's first national standard for methamphetamine contamination." – This sounds like the (square) data re differential markers went into the development of the NZS 8510:2017 Standard, but as far as I'm aware there is nothing in the standard about differential markers, so I assume it is a separate issue. If you can provide any information on this it would be most appreciated!

Lastly, Felicia brought up some specific questions from the ESR 2016 review of the 2010 Ministry of Health guidelines – these may need to be answered by the authors (are you able to put us in touch with them?)

Here are Felicia's questions:

- 1. Can you clarify why p 25 reports exposure dose for 1-2 year old, at a surface load of 0.1, is 0.021 μ g/kg bw/d; but p 41 reports that the dose is 0.015 μ g/kg bw/d?
- 2. Can you provide further detail on how the recommendation of 1.5 μ g/100 cm2 for *carpeted*, non-lab houses was arrived at? Is it simply following the OEHHA guideline, i.e. no specific modelling work with NZ data?
- 3. Important: Can we assume that the model used gives relatively linear results for the surface load/exposure dose relationship? That is:
 - a. 0.015 µg/kg bw/d dose resulted from surface load of 0.1;
 - b. And the RfD of 0.3 was modelled to result from surface load of 2;
- c. Can we reasonably extrapolate this, so the Colorado HBEV of 5 will be reached at a surface load of **33**? Many thanks for your help

Anne

Anne Bardsley, PhD
Research Analyst

Office of the Prime Minister's Chief Science Advisor I 85 Park Rd, Grafton I Auckland 1023 New Zealand

From: Erina Mayo

Date: Tuesday, 30 January 2018 at 9:24 AM

To: Anne Bardsley <

Subject: RE: Meth testing

Hi Anne

The entrance is at 120 Mt Albert Road and as you come down the driveway you turn right at the bottom and then curve left down the hill. Our reception area is directly to your left and there should be some visitor parks available there for you to park in. Once you get to reception they will let you know how to

check in and they will let me know you have arrived!

Cheers Erina

----Original Appointment-----

From: Anne Bardsley

Sent: Monday, 29 January 2018 3:50 PM

To: Anne Bardsley; Erina Mayo

Subject: Meth testing

When: Tuesday, 30 January 2018 1:30 PM-2:30 PM (UTC+12:00) Auckland, Wellington.

Where: ESR - 120 Mt Albert Rd, Sandringham

Hi Erina

I thought I should send a meeting request so the time is held free. Please let me if anything has changed for you. Also, I'm not really sure how to get into ESR and where to park – google maps is somewhat unhelpful! I don't see where the entrance is. If you can give me a clue that would be great.

Many thanks

Anne

The information contained in this message and/or attachments from ESR is intended solely for the addressee and may contain confidential and/or privileged material. If you are not the intended recipient, any review, disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited by ESR. If you have received this message in error, please notify the sender immediately.

This email has been filtered by SMX. For more information visit smxemail.com

The information contained in this message and/or attachments from ESR is intended solely for the addressee and may contain confidential and/or privileged material. If you are not the intended recipient, any review, disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited by ESR. If you have received this message in error, please notify the sender immediately.

This email has been filtered by SMX. For more information visit smxemail.com

The information contained in this message and/or attachments from ESR is intended solely for the addressee and may contain confidential and/or privileged material. If you are not the intended recipient, any review, disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited by ESR. If you have received this message in error, please notify the sender immediately.

Re: Meth testing

Date:

Wednesday, 21 March 2018 at 2:29:46 PM New Zealand Daylight Time

From:

Anne Bardsley

To:

Erina Mayo

Attachments: image001.png, image002.png

Many thanks Erina

We will keep the report in confidence.

All the best,

Anne

From: Erina Mayo

Date: Wednesday, 21 March 2018 at 2:28 PM

To: Anne Bardsley

Subject: RE: Meth testing

Hi Anne

Attached is the full final ESR report for your reference, which is the same report released to (59(2)(50))

Much of the information provided in this report is confidential and contains sensitive information (such as how best to manufacture methamphetamine). As such, the information should not be made freely available to the public and please make contact with myself prior to reproducing or releasing this information.

Kind regards

Erina

Erina Mayo BSc, MSc (Hons)

Team Leader, Clandestine Drug Laboratory

Forensic Drug Chemistry

Institute of Environmental Science and Research Limited (ESR)

Mt Albert Science Centre: 120 Mt Albert Road, Sandringham, Auckland 1025

Private Bag 92021, Auckland 1142, New Zealand

E/S/R

From: Anne Bardsley [mailto:a.bardsley@auckland.ac.nz]

Sent: Tuesday, 6 March 2018 10:04 AM

To: Erina Mayo Cc: Felicia Low

Subject: Re: Meth testing

Hi Erina

Thanks so much for the report – it is very helpful for us to better understand the methods you use for clan lab investigations as compared with the commercial operators focusing on remediation levels. The info on manufacturing methods (and Parr bombs), and other likely contaminants from labs in NZ is also helpful.

I have had some info from (59 (2) (ball) but not the full ESR report yet. I have seen what is essentially a slide deck of data analysis about contamination levels from different areas of houses, and in different regions, the number(%) of confirmed labs, etc., which helps provide a general picture for the housing stock. I also received their internal guidelines for remediation which are based on that data.

Re the info you have provided - we may have a few additional questions but I will wait until Felicia and Peter have also digested the material, and will get back to you.

Many many thanks again for your help!

All the best, Anne

From: Erina Mayo

Date: Monday, 5 March 2018 at 4:39 PM

To: Anne Bardsley <

Subject: RE: Meth testing

Hi Anne

Please find attached a document that includes information relating to methamphetamine contamination in New Zealand properties. I have also attached a couple of the references that are mentioned in the document (Martyny's work), which we have based some of our calculations on.

Can you please note that this document includes pieces of information from various reports that we have prepared from clients and is not a "complete" report, or official ESR report. Once we have received confirmation that we can release some of the confidential client information (eg -(59)). then we will be able to release an official ESR project report in full.

In addition, much of the information provided in this document is confidential and contains sensitive information (such as how best to manufacture methamphetamine). As such, the information should not be made freely available to the public and please make contact with myself prior to reproducing or releasing this information.

I have made some comments in red that may help further explain your questions.

You also mentioned that when testing at suspected labs, and in the absence of obvious tell-tale signs, you don't typically confirm that a site was an ex-lab unless the levels were $^{\sim}30~\mu g/100~cm2$. Can you tell us more about the basis for this threshold? And does this account for the percentage of clan lab investigations that are not deemed as clan labs (according to the NDIB data we discussed)? Yes the clan labs are considered assessments unless it is clear from the items of equipment and chemicals/products present that it is likely to be a lab (often this is when you can declare a state of emergency under the HAZNO act). If it is a premise where there are no or few items of equipment or chemicals present, then it is deemed an assessment, but if results of analysis of swabs taken from carious surfaces within the premises are such that an opinion can be formed that the manufacture of methamphetamine has taken place there, then it is upgraded to a lab, not an assessment.

Felicia noted the following in the ESR 2017 Annual Report:

"Using data sourced from Housing New Zealand, our Forensic Drugs team identified differential markers for contamination of smoking versus cooking and the extent of property remediation required for contaminated houses."

Is this part of the report (89 (2)(6x)) that we discussed? This relates more to research carried out at ESR (non Housing NZ data) and scientific literature and data around the manufacturing methods adopted in New Zealand.

The Annual Report goes on to say that:

"ESR's recommendations will help guide clean-up efforts based on an appropriate assessment of risk and will contribute to the country's first national standard for methamphetamine contamination." — This sounds like the (\$9 (2)(1,64) data re differential markers went into the development of the NZS 8510:2017 Standard, but as far as I'm aware there is nothing in the standard about differential markers, so I assume it is a separate issue. If you can provide any information on this it would be most appreciated! Correct, the standard has no reference to differential markers. This part of the annual report is really just suggesting that from research carried out at ESR (trying to understand how methamphetamine contamination occurs, how it is distributed within a property and how it is affected by airflow, surface materials and so on) we may be in a position to aid testing and decontamination efforts.

I hope this information helps.

Please be in touch if you need anything else. Cheers Erina

Erina Mayo BSc, MSc (Hons)

Team Leader, Clandestine Drug Laboratory
Forensic Drug Chemistry
Institute of Environmental Science and Research Limited (ESR)
Mt Albert Science Centre: 120 Mt Albert Road, Sandringham, Auckland 1025
Private Bag 92021, Auckland 1142, New Zealand

www.esr.cri.nz

E/S/R

From: Anne Bardsley !__

Sent: Friday, 2 March 2018 2:31 PM

To: Erina Mayo <

Subject: Re: Meth testing

Thanks that's great. I look forward to hearing from you.

Cheers Anne

From: Erina Mayo <

Date: Friday, 2 March 2018 at 2:30 PM

To: Anne Bardsley <

Subject: RE: Meth testing

Hi Anne

Yes Kevan let me know you were it touch which was great. I advised him that I could put the information together for him for you, so it is all under control. Glad you got the information you needed from Jeff also.

Cheers Erina

From: Anne Bardsley '

Sent: Friday, 2 March 2018 2:26 PM

To: Erina Mayo <

Subject: Re: Meth testing

Many thanks Erina, and sorry to have pestered you!

I had a talk with Kevan Walsh last week - have you talked to him? He is putting some info together for some other questions I asked, but I also forwarded the set of questions I asked you, so if you are not already doing so it might pay to coordinate with him.

Re the questions on the 2016 ESR review, Chris Nokes has provided answers from Jeff Fowles, so we're all good there.

Many many thanks for your help.

Cheers Anne

From: Erina Mayo <

Date: Friday, 2 March 2018 at 2:22 PM

To: Anne Bardsley <

Subject: RE: Meth testing

Hi Anne

Sorry that this response is so late, I have been out of the office most of the past two weeks for various reasons, including carrying out a 4 day audit in Hamilton.

I am working on putting together answers to all your questions and hope to have this with you by Monday

Re: Query about Parr bombs - for PMCSA methamphetamine report

Date:

Wednesday, 28 March 2018 at 3:57:00 PM New Zealand Daylight Time

From:

Anne Bardsley

To:

Erina Mayo

CC:

Felicia Low

Attachments: image001.png

I'll jump in and say THANKS Erina – once again you have been extremely helpful!

All the best Anne

From: Erina Mayo

Date: Wednesday, 28 March 2018 at 3:55 PM

To: Felicia Low **Cc:** Anne Bardsley

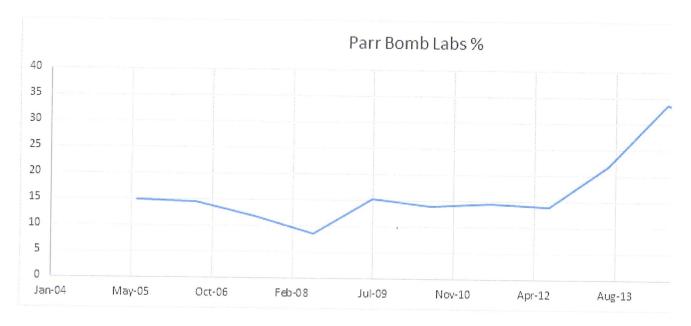
Subject: RE: Query about Parr bombs - for PMCSA methamphetamine report

Hi Felicia

Unfortunately we do not have exact stats, however you can see from the graph below that the prevalence of Parr Bombs at labs has increased significantly over the years. What this graph shows is that up till 2016, we were locating Parr Bombs at approximately 40% of the suspected clandestine laboratories we attended. The other 60% of labs would have been where a reaction vessel was not located at all, or alternative reaction vessels (glassware etc, which in my opinion would be a very low percentage) were located.

It is our feeling that the majority of clandestine laboratory cooks are utilising Parr bombs over any other reaction vessel.

I have attached a past copy of ESR Forensic News that includes an article around silent, solventless, odourless methamphetamine labs in NZ!



I hope that helps.

Cheers Erina

From: Felicia Low ·

Sent: Wednesday, 28 March 2018 1:45 PM

To: Erina Mayo
Cc: Anne Bardsley

Subject: Query about Parr bombs - for PMCSA methamphetamine report

Dear Erina,

I have been working with Anne Bardsley on the methamphetamine report requested by Minister Twyford, and she has forwarded to me the full ESR report that had been released to (SQ(2)(La)). I have a quick question and I hope you can help me with it.

The report mentioned that traditional production methods have long been replaced by Parr bombs, and I get the sense that this method is almost exclusively seen in confirmed clan labs. Would this be fair, and do you have a statistic on the prevalence of Parr bombs found? Given that these bombs mostly eliminate the risks posed by other hazardous chemicals and byproducts, we're trying to understand whether this means that, in practice, there is no 'additional' risk from manufacture compared to smoking alone.

Thanks very much,

Felicia

Felicia Low PhD, Research Fellow Office of the Prime Minister's Chief Science Advisor University of Auckland Private Bag 92019, Auckland 1142, New Zealand

The information contained in this message and/or attachments from ESR is intended solely for the addressee and may contain confidential and/or privileged material. If you are not the intended recipient, any review, disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited by ESR. If you have received this message in error, please notify the sender immediately.

Subject: Re: Quick query for PMCSA methamphetamine report - data used in report

number of properties)

Date: Wednesday, 4 April 2018 at 1:26:03 PM New Zealand Standard Time

From: Anne Bardsley

Erina Mayo To:

CC:

Felicia Low

Thanks Erina! Very helpful again 😌

From: Erina Mayo

Date: Wednesday, 4 April 2018 at 1:23 PM

To: Anne Bardsley

Subject: RE: Quick query for PMCSA methamphetamine report - data used in report (S9 (Chan)) (clarifying number of properties)

Hi Anne

The 2500 reports do not equate to the exact number of properties. I am in the process of finding out the number of properties it relates to.

Also, I assume these were not all social housing properties (rather the reports are from "public sector agencies familiar with methamphetamine contamination"), but we would say that the sample is still likely to overestimate the likelihood of finding contamination in New Zealand housing stock as a whole, as the dataset is mainly rental properties including social housing – is that fair to say? Yes this is fair to say. In addition, since the property tests are suspicion-based a lot of the time, it is unlikely to be representative of any part of the housing sector/stock.

I hope that helps! Cheers Erina

From: Anne Bardsley

Sent: Wednesday, 4 April 2018 12:44 PM

Subject: Quick query for PMCSA methamphetamine report - data used in report (clar number of properties)

Importance: High

Hi Erina

I'm hoping you can help with a quick query we have regarding the data in the ESR report to HNZ (specifically the 'Property Test Report Data' in section 6). We would like to make a general statement about what is typically encountered in houses where meth use is suspected (but not manufacture), using the (59) Wata to paint a broad picture. Originally we were without the commentary (essentially a slide set), which noted 1600 going off the data that ESR had sent to properties. The full report talks about >2500 reports from meth-tested properties, with >1100 properties having some detectable level of methamphetamine.

My query is whether the 2500 reports represents 2500 individual properties.

Also, I assume these were not all social housing properties (rather the reports are from "public sector agencies familiar with methamphetamine contamination"), but we would say that the sample is still likely to overestimate the likelihood of finding contamination in New Zealand housing stock as a whole, as the dataset is mainly rental properties including social housing – is that fair to say?

Cheers
Anne

Anne Bardsley, PhD
Research Analyst

Office of the Prime Minister's Chief Science Advisor I 85 Park Rd, Grafton I Auckland 1023 New Zealand!

The information contained in this message and/or attachments from ESR is intended solely for the addressee and may contain confidential and/or privileged material. If you are not the intended recipient, any review, disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited by ESR. If you have received this message in error, please notify the sender immediately.

Our timeline is now very urgent, so I would appreciate it if you can get back to me on this as soon as you can. I'd be happy

to discuss any of this over the phone if you prefer.

Date: Thursday, 12 April 2018 at 12:00:37 PM New Zealand Standard Time
From: Anne Bardsley
To: Erina Mayo
THANKS ERINA! You are a superstar
Cheers Anne
On 12/04/18, 11:56 AM, "Erina Mayo"
Hi Anne I have checked with Matt Russell, and he and I are both happy for you forward the mentioned report to Leo in confidence. Cheers Erina
Sent from my iPhone
On 11/04/2018, at 12:58 PM, Anne Bardsley wrote:
Hi Erina,
Our report is nearly ready – going through MBIE channels and external review. I'm wondering if they have sent it to you? If not I will send a copy of the latest draft; if you have time to provide comments before Friday that would be helpful.
I also need to know if it is ok to send the ESR internal report (Russell et al. 2018) in confidence to one of the reviewers (Leo Schep from NZ Poisons Centre)? I have just been on the phone with I and they indicated that they were fine with it but that I should ask ESR if it is ok to send to him.
Can you let me know (both on whether you want to see our draft, and whether I can send yours to Leo Schep?)
Many thanks Anne
From: Erina Mayc
The 2500 reports were attributed to approximately 1600 properties. Cheers
Erina
From: Anne Bardsley Sent: Wednesday, 4 April 2018 1:26 PM To: Erina Mayo Cc: Felicia Low Subject: Re: Quick query for PMCSA methamphetamine report - data used in report to HNZ (clarifying number

of proportion

