Subject: Re: ^_Media^_ ^_release^_ - ^_Callide^_ From: Mark.Bailey@ministerial.qld.gov.au To: Zoe.Russell@ministerial.qld.gov.au Cc: Tam.VanAlphen@ministerial.qld.gov.au; Denise.Spinks@ministerial.qld.gov.au; mangocube6@yahoo.co.uk Date: Monday, 1 August 2016, 2:00:40 pm AEST 合金 Sent from my iPhone On 1 Aug 2016, at 1:48 PM, Zoe Russell < Zoe.Russell@ministerial.qld.gov.au > wrote: Hi, this is the release which CS Energy put out on Friday. We weren't aware they were doing this. I've spoken to Nev and asked that regardless of if we've already announced could they give us a heads up on any media releases etc. Zoe From: CONWAY Neville [mailto:nconway@csenergy.com.au] Sent: Monday, 1 August 2016 1:43 PM To: Zoe Russell < Zoe. Russell @ministerial.qld.gov.au Subject: Media release - Callide Hi Zoe, Yes, great chatting today. Please follow this link to the website for the media release on the Callide Overhaul: http://www.csenergy.com.au/media-(68)-(63)-(292)-Callide+B1+overhaul+preview.htm And here is the release that Mark and Curtis sent out a few months back; http://statements.qld.gov.au/Statement/2016/5/12/callide-b-power-station-gets-31-million-overhaul Speak soon. Kind regards,

Nev Conway

Group Manager Corporate Affairs

7/5/2018 Print window

<image001.gif>

Brisbane Office

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Phone +61 7 3854 7710 Mobile N/R

www.csenergy.com.au

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<Media - 2016 - MR16-032 - Callide B1 overhaul preview media release - 27 July 2016.docx>

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Subject: ^_Philip^_ ^_sent^_ ^_you^_ a ^_new^_ ^_message^_ From: messaging-digest-noreply@linkedin.com To: mangocube6@yahoo.co.uk Date: Wednesday, 3 August 2016 06:03:12 PM AEST Mark Bailey You have unread messages from Philip Sch 4 CTPI X Mark, We have an event on the Thursday the 11th at 5:30pm to officially open our brand new offices. I am unsure if you have received an invite, but you are welcome to join. Looking forward to... see more Reply Opportunity is always within reach. Get the LinkedIn app. iOS . Android Unsubscribe Help This ernall was intended for Mark Bailey (MP for State Seat of Yeerongpilly, Minister for Main Roads, Road Safety, Ports, Energy, Biofuels, Water Supply). Learn why we included this. Linked 17 © 2016 LinkedIn Ireland, Wilton Plaza, Wilton Place, Dublin 2. LinkedIn is a registered business name of LinkedIn Ireland. LinkedIn and the LinkedIn logo are registered trademarks of LinkedIn.

7/5/2018 Print window

Subject: RE: ^_Redback^_ ^_Invite^_ ^_via^_ ^_LinkedIn^_...

From: Denise.Spinks@ministerial.qld.gov.au

To: mangocube6@yahoo.co.uk

Date: Friday, 5 August 2016, 9:12:00 am AEST

Ηi

You are now going.

We have been hassling Premier's office for them to indicate if she could go.

Answer now no.... and given you are back that day accepted on your behalf yesterday.

Invite came via solar council

ds

From: Mark Bailey [mailto:mangocube6@yahoo.co.uk]

Sent: Friday, 5 August 2016 7:45 AM

To: Denise Spinks < Denise. Spinks@ministerial.qld.gov.au>

Subject: Redback Invite via LinkedIn...

Mark,

We have an event on the Thursday the 11th at 5:30pm to officially open our brand new offices. I am unsure if you have received an invite, but you are welcome to join. M

Sent from my iPhone

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Subject: ^_Fwd^_: ^_FNQ^_ ^_fataltity^_

From: Mark.Bailey@ministerial.qld.gov.au

To: mangocube6@yahoo.co.uk

Date: Friday, 12 August 2016 09:25:35 AM AEST

Sent from my iPhone

Begin forwarded message:

From: Zoe Russell < Zoe.Russell@ministerial.qld.gov.au>

Date: 12 August 2016 at 9:09:54 AM AEST

To: "@Premiers Media" premiers.media@ministerial.qld.gov.au>
Co: Denise Spinks Spinks@ministerial.qld.gov.au>
, Mark Bailey

< Mark.Bailey@ministerial.qld.gov.au >, Tam van Alphen

< Tam. Van Alphen @ministerial.qld.gov.au >, Michelle Connolly

< Michelle.Connolly@ministerial.qld.gov.au >, Emma McBryde

< Emma.McBrvde@ministerial.gld.gov.au>

Subject: FW: FNQ fataltity

FYI

From: FOWLER John (NQ) [mailto:john fowler@ergon.com.au]

Sent: Friday, 12 August 2016 9:07 AM

To: Amy Hunter < Amy. Hunter@ministerial.gld.gov.au >; Zoe Russell

<Zoe.Russell@ministerial.qld.gov.au>

Cc: DART Michael (WB) < michael.dart@ergon.com.au >; BIFFANTI Mark (NQ)

<mark.biffanti@ergon.com.au>

Subject: FNQ fataltity

Just a heads up - there has been a fatality in FNQ this morning involving our network.

It seems the male driver has passed away after hitting one of our power poles on the Bruce Highway half way between Cardwell and Tully at 6.46am today. The accident brought down powerlines to within 2 meters of the ground causing an outage to 147 customers in the immediate area.

Tully crews responded and advised they believe the death is as a result of the accident and not electrocution.

Emergency services and police forensics are at the scene. Our crews are preparing to restore power but can't do so until police finish their work at the scene.

John Fowler Corporate Communications Manager External Stakeholder Engagement Ergon Energy Townsville

Ph: 07 4432 8730

Mob:

Fax: 07 4432 8061

ergon.com.au

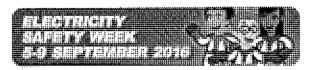












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3/14/2018 Print

Subject: Bitcoin-inspired peer-to-peer solar trading trial kicks off in Perth : Renew Economy

From: Sch 4 CTPI

To: mangocube6@yahoo.co.uk;

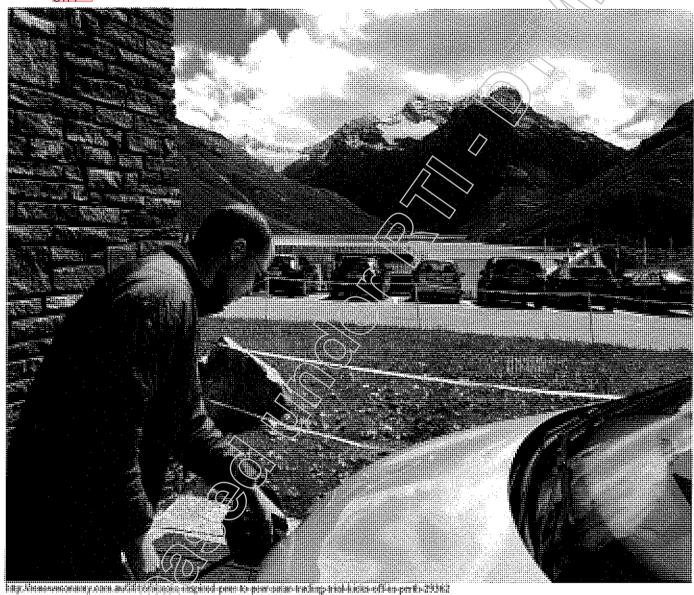
Date: Friday, 12 August 2016, 17:20

Hey Mark.. hope all is well.. saw you did a Beyond Zero gig for the EV report. Nice..

Just to let you know, I'm in Austria and the state i'm in has 350 chargers for 500 EVs!!! I'm driving a Renault ZOE with a range of about 150 km. We drove to Innsbruck more than 250 km away no problem.. stopping at a mountain pass to charge there. Here's a pic. by the way, that's a HUGE pumped hydro scheme.

I'm back in Sept and would love to catch up. Scotty and Q and Geoff are coming to my place around the 5th.

stay wel...Sch 4



Bitcoin-inspired peer-to-peer solar trading trial kicks off in Perth

A Perth start-up is set to begin trials of its blockchain-based software program that, if successful, could mean the beginning of peer-to-peer energy trading in Australia, in which consumers buy, sell or swap excess solar electricity directly with each other, rather than to the grid for a minimal return.



The company, Power Ledger, will begin the trials later this month, which will be conducted in conjunction with National Lifestyle Villages. The eight week trial will involve 10 households and about 20 people at NLV's Busselton Lifestyle Village, on the Western Power network.

3/14/2018 Print

Jemma Green – Power Ledger's chair, who co-founded the company with Dave Martin and Jenny Conroy – says the aim of the pilot project is to enable producers and consumers to trade their energy directly, saving money, hassle and maximising the use of rooftop solar.

Blockchain is the software that underpins bitcoin, the virtual currency that has proved popular in many markets. Blockchain is now being seen as a revolutionary new step in many other markets, including in energy.

The technology works, like bitcoin, to identify the ownership of energy as it is generated and then to manage multiple trading agreements between consumers who buy excess solar direct from the original owner/producer, without the addition of market costs and commercial margins.

"It's a software program that tracks the movement of electricity from point to point," Green explained in an interview with One Step Off The Grid on Friday. "It handles the financial transactions off the back of it as well.

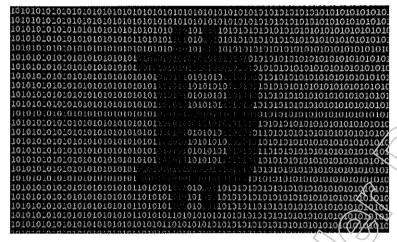
"Presently, if you've got surplus solar electricity you sell it back for a low feed-in tariff and buy it back (from the grid) for a high rate. Using (Power Ledger), you can sell it to your neighbour at somewhere between the two" – less than the uniform tariff but more than you would get from selling it to their retailer, Green said.

For example, rather than exporting excess solar to the grid for 6-7c/kWh and then buying electricity at a rate of 23c/kWh, you can sell it for 15c/kWh, which is around 10c/kWH after grid access costs are paid to the retailer.

"Effectively, we're cutting out the middle-man to save consumers, and to maximise returns for producers," she said.

"It's a win for the people who have been able to afford to invest in roof-top solar, but also a win for customers who haven't: they will be able to access clean, renewable energy at effectively a 'wholesale' rate. Everyone wins.

And in saying that, Green also means the incumbent power industry - as much as this disruptive technology might seem to be cutting their lunch.



Green says network operators in both WA and Victoria have been receptive to trialling the blockchain technology, and WA retailer Synergy is said to be "supportively involved" in discussions on a 2017 trial in the Perth metro area.

"There need to be new commercial models given the use of centralised energy is declining - and battery storage is likely to exacerbate that."

Green says energy industry incumbents have a window of about two years — the time she and many others estimate it will take before battery storage becomes economic for the majority of Australian households — to sort out their future business models.

"If you see the grid as a trading platform instead of just poles and wires, then you can start to thing about how can consumers be a positive part of that.

"There are quite significant opportunities in this paradigm.

"If you can enable people with solar to sell power to each other, they'll be sending it across the grid (rather than storing it in batteries) which will maintain the use of the grid – and therefore the value of it," Green said.

For retailers, she adds, it will be about building relationships with the consumers to facilitate the trading.

"For example, within a strata building you might have the strata own 49 per cent of the solar and battery system, while 51 per cent is owned by the retailer who also provides differential power."

Green also believes the Power Ledger platform could boost solar uptake, prompting installations that might not have happened before.

"For example," she told One Step, "you might have a local govt authority that has demand in one area and no roof space for solar." In situations like this, she says, they could install a solar array in one spot and transfer the electricity generated to where it is needed.

"Consumers don't like selling their power back to the retailer and buying it back at a higher price.

Using this platform, Green adds, "they can gift the electricity to their mother or anyone else; sell it when they want at the price they want.

"The benefits of distributed renewable energy will flow on to those who, at the moment, can least afford to participate; we think that's pretty special."

The Busselton trial will run for eight weeks, after which time Greens says Power Ledger will be announcing another trial in Perth's south west. The company is also working on securing sites for a trial on the NEM in Victoria, and hopes to enter into commercial trials of the technology in 2017.

"We see this very much as a global product; a product of global significance. So it's exciting to me that it's happening (first) in Perth," Green said, noting that WA was shaping up to be a leader in adoption of new energy technologies.

"They're really aware of the declining utilisation of the grid and the economic importance of innovating."

RenewEconomy Free Daily Newsletter

Attachments

- IMG_8962.jpg (2.28 MB)
- 05-19-rooftop-solar-in-australia.png (172.62 KB)
 4549-c1470970430839.jpg (96.17 KB)



Subject: ^_Fwd^_: ^_Mediaportal^_ ^_Alert^_ - ^_Mark^_ ^_Bailey^_ From: Mark.Bailey@ministerial.qld.gov.au To: mangocube6@yahoo.co.uk Date: Saturday, 13 August 2016 10:48:50 AM AEST Sent from my iPhone Begin forwarded message: From: <mediaportal.au@isentia.com> Date: 13 August 2016 at 10:29:07 AM AEST To: < Mark. Bailey@ministerial.qld.gov.au > Subject: Mediaportal Alert - Mark Bailey MEDIAPORTAL ALERT Mark Bailey Queensland Government Internet (1 item) Desalination plant supplements drinking water 13 Aug 2016 10:12AM • Brisbane Times
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3/14/2018 Print

Australian gas 40% cheaper in Japan than in Australia despite export costs Subject:

Murray Watt Sch 4 CTPI From:

To: mangocube6@yahoo.co.uk;

Date: Tuesday, 16 August 2016, 21:52

Just in case you missed this. I think this is going to become a big cost of living type issue,

https://www.theguardian.com/business/2016/aug/16/australian-gas-40-cheaper-japan-than-australia-despite-

export-costs?CMP=share_btn_link

3/15/2018 Print

Subject: VIDEO: An Introduction to Carbon Pricing | Climate Reality

From: Sch 4 CTPI

To:

Date: Thursday, 25 August 2016, 18:48

good film with some excellent graphics..

http://www.climaterealityproject.org/blog/video-introduction-carbon-pricing-8

VIDEO: AN INTRODUCTION TO CARBON PRICING

Carbon price: The price for avoided or released carbon dioxide (CO2) or CO2-equivalent emissions. This may refer to the rate of a carbon tax, or the price of emission permits. In many models that are used to assess the economic costs of mitigation, carbon prices are used as a proxy to represent the level of effort in mitigation policies. {IPCC Fifth Assessment Report}

We all learn in science class that carbon is one of the building blocks of life. So what does it mean when climate activists call for a price on carbon? And why do we need one?

Let's start with the basics. Around the world, fossil fuels like oil, gas, and coal still power many of the world's industries and economies. When we burn fossil fuels, we release carbon into the atmosphere as carbon dioxide. While greenhouse gases like carbon dioxide play an important role in regulating the Earth's climate system, excessively high concentrations of atmospheric carbon – what we call "carbon pollution" – have dangerous consequences.

To put it another way, carbon pollution is the number one contributor to climate change. Scientists have linked carbon pollution with rising global temperatures, stronger and longer droughts, shifts in rain and snow patterns, more destructive and frequent storms, shrinking land and sea ice, increased ocean acidity, warmer oceans, and rising sea levels. And that's just for starters.

Related: Striking NASA Selfies Show How the Earth Is Changing

Many of these effects have already begun. This year is on track to become the hottest on record globally — and this is the third year in a row this has happened. And if we're keeping score, that would mean that 16 of the 17 hottest years on record globally have come since the beginning of the twenty-first century. In 2015, wildfires burned more than 10 million acres of land in the United States (another new record), with most projections pointing to even more US wildfires in the future. "Nuisance flooding" (flooding that overwhelms or damages public infrastructure) has increased on all three US coasts between 300 and 925 percent since the 1960s.

You don't have to look far to see how these and other consequences of climate change can get expensive. California's recent historic drought is estimated to have cost the state \$2.74 billion in 2015 and resulted in the loss of more than 21,000 jobs.

And guess who ends up paying these costs? We all do, through higher taxes, medical bills, and insurance rates.

Related: Will Taxpayers Foot the Cleanup Bill for Bankrupt Coal Companies?

And the companies responsible for the carbon pollution behind all this? They're sitting high on the list of the world's most profitable firms, while the rest of us are stuck paying the costs. Hardly seems fair, does it? Which is why it's time to put a price on carbon.

We know that the public costs of burning fossil fuels are enormous, but the market prices of carbon-intensive products and services don't reflect that reality. Government subsidies for the fossil-fuel industry and lack of accountability for carbon pollution allow market prices for these products to stay artificially low, effectively telling polluters that they are free to use the atmosphere like an open sewer, emitting unlimited carbon pollution without any consequences.

Policies that put a price on carbon emissions aim to re-adjust the market to hetter reflect the true cost of carbon. Such policies, like carbon taxes or cap-and-trade programs, have already been adopted in a number of countries around the globe.

In the US, the US Court of Appeals for the Seventh Circuit recently specifically backed a federal policy tool for counting the big-picture costs of climate change known as the Social Cost of Carbon (SCC). This was the first time a US court has considered the legality of carbon accounting. By upholding the SCC, the court empowered the government to keep considering climate change in cost-benefit analyses when making federal regulations. The SCC is not a true price on carbon, but it's a good first step.

Which raises the question, why is a price on carbon one of the most cost-effective and market-friendly solutions to climate change? When a price on earbon forces companies to start paying the real economic and environmental costs of fossil fuels, they naturally look for cheaper options like solar and wind. More investment then goes into clean energy and a virtuous cycle begins, with lower costs attracting more business and investment, driving prices down even further. Which helps attract more business and investment. And on and on.

Here's How You Can Help

So, what can you do about carbon pollution? Here are three ways you can support the US and other nations in marching forward on the path to a clean energy economy:

1. Tell the US Environmental Protection Agency you support clean energy. Submit a comment showing your support for the EPA's Clean Energy Incentive Program (CEIP), which helps states reduce carbon pollution by encouraging early investments in renewable energy.

about:blank 1/2

3/15/2018 Print

STAND UP TO BIG POLLUTERS! TELL THE EPA YOU SUPPORT THE CLEAN ENERGY INCENTIVE PROGRAM:

climaterealityproject.org/CEIP



2. Share this article you just read and raise awareness about carbon pricing in your social network. Now that you understand why we need a price on carbon, share your knowledge and help build the public support to make it a reality.





Share on Facebook

Share on Twitter

3. Already done with #1 and #2? Take the next step and become a Climate Reality Leader. Learn directly from former US Vice President Al Gore about climate science and how to advocate for solutions. Here's how.

Attachments

- · ceipbanner.png (208.35 KB)
- sharing-button-FB_off.jpg (1.70 KB)
- sharing-button-TW_off.jpg (2.20 KB)

Subject:	Re: URGENT Ben Lomond pollution
From:	Bill Laing (bill@laingex.com)
To:	david.sewell Sch 4 CTPI ;
Cc:	mangocube6@yahoo.co.uk; Sch 4 CTPI Michael.Rubenach@jcu.edu.au;
Date:	Wednesday, 31 August 2016, 15:58
Excellent	t email Dave.
Bill	
	Director & Principal Consultant hD FSEG FAusIMM CP(Geo) FAIG MGSA MASEG
Internationa 143 consul	.com
•••••	Sch 4 CTPI
On	31 Aug 2016, at 2:20 pm, David Sewell Adavid.sewell > wrote:
Hi	Mark,
ack mal	re's the letter sent to you, Steven Miles and Andrew Lynam on 8/8/16. We have mowledgement of the receipt of the emailed letter and we want to take further action, by king the situation known to the public, but would prefer a response from either or all of you fore doing so.
Reg	gards,
Dav	ve Sewell

Attachments

- Letter to the Ministers 8:8:16 copy.docx (132.86 KB)
- Ben Lomond Receiving Water Monitoring Results -20160324 copy.xlsx (39.20 KB)
- Ben_Lomond Groundwater Data -20150212 copy.xlsx (25.84 KB)
- Laing Report-Ben Lomond Water Pollution-Final copy.pdf (10.30 MB)

• Mike Rubenach assesment.docx (75.12 KB)



8/08/2016

To:

The Honourable Dr Steven Miles MP Minister for Environment and Heritage Protection. and Minister for National Parks and the Great Barrier Reef
The Honourable Dr Andrew Lynam MP Minister for Natural Resources and Mines
The Honourable Mark Bailey MP Minister for Energy and Water Supply

Dear Ministers Miles, Lynam and Bailey

It is now over a year since the productive meeting between Citizens Against Mining Ben Lomond (CAMBL) and yourselves and staff at the 2015 Community Cabinet in Townsville. You reiterated your Government's policy of prohibiting uranium mining in Queensland, a policy which we applaud.

At that meeting we raised our principal concern - the capacity of the Ben Lomond site, already containing major surface and underground uranium mineralisation, to seriously pollute the local environment (mainly surface and subsurface water regimes), and the larger river watersheds of Keelbottom Creek and the downstream Burdekin River. We raised a series of questions around this issue, you accepted their validity, and you invited us to liaise with your Departments on, inter alia, the sampling regime in the leaseholder Uranium Mineral Ventures Incorporated's Environmental Authority EPML00418313 and related ML's 1399 and 1419.

We have since acquired the water sampling analyses of receiving water and groundwater, as taken by the leaseholder under the conditions of their Environmental Authority (EA) between December 2010 and December 2015. Laing Exploration Pty Ltd has assessed the analyses, and identified the

implications for the water regimes in the Ben Lomond watershed. The Laing Exploration Report is attached.

Each water regime shows major exceeding of the conditions, throughout the five years 2010-2015, in chemical elements critical to human health: alpha radiation, beta radiation, uranium, lead, and arsenic.

			Alpha radiation Be	<u>rta</u>
<u>radiation</u>	<u>Uranium</u>	<u>Lead</u>	<u>Arsenic</u>	~
Number of	samples ove	er Limit	47%	16%
5%	25%	85%	\nearrow	
Highest co	ncentration	vs Limit	274	59
3.4	98	39		

The elemental levels constitute major breaches of the EA - in other words, major pollution. The Laing Report demonstrates that the polluted water regimes cannot be ascribed to anything other than the underground mineralisation brought to surface as ore dumps and associated rock material. Whilever the Ben Lomond surface dumps remain as they are, they will perpetuate the current polluted water regimes.

The consistent temporal linear concentrations over the five year sampling period, with the anomalous analyses spread throughout the period, indicate that the pollution was present before, and after, the sampling period; and they create the reasonable assumption that the pollution began at the time of the original mining and ore dump formation circa 1981, and will most likely be continuing to the present and into the future.

The Ben Lomond pollution is thus a major addition to the environment, in all three possible spaces; (1) geochemical (2) temporal, and (3) spatial:

- (1) It comprises major levels of harmful elements which exceed the EA conditions by orders of magnitude,
- (2) It has continued (and still continues) over probably the three decades of existence of the underground mine and the surface

ore dumps, and

(3) It is present along a significant length of local, and probably regional, streams which lead into the Burdekin River, the largest river in Queensland.

Minister Miles (letter 1 below) advised that your Government is changing the Environmental Authority for the Ben Lomond site. The changes "primarily relate to environmental monitoring" requirements and receiving water quality objectives, to ensure the site is managed in a manner that protects the environmental values of the area." We endorsed this approach in our meeting. While we applaud the recent chain of responsibility amendment to the Environment Act, recently passed in the Queensland Parliament by your government, we have since compared the two Ben Lomond EA's (2007 and 2015), and we are disappointed to see that little if anything has changed in the substantive conditions of the 2015 version of the EA. The geochemical conditions remain unchanged. It can be interpreted furthermore, that the 2015 conditions are broader than the earlier conditions: (2007 EA) "authorises exploration drilling does not authorise any mining, ore extraction or processing" whereas (2015 EA) "authorises exploration drilling does not authorise any mining, ore extraction or processing authorises large bulk sampling or constructing an exploratory shaft, adit or open pit". An open pit in particular would significantly increase the exposure of the orebody to the atmosphere and biosphere, from the current surface ore dumps.

The EA requires the leaseholder to conduct bi-monthly sampling of 'receiving waters affected by the release of process water or storm water contaminated by the mining activities, or both' and 'groundwater, affected by the mining activities' at specified locations, and report to the DEHP if specified levels are exceeded (our italics).

Three issues are raised by the current situation:

- 1. Given the major breach of the DEHP's prescribed standards in five elements harmful to human and animal health, what correction does DEHP plan:
- to the environment, damaged already;
- to the leaseholder, as penalties for major sustained pollution and as a deterrent to continued pollution?
- 2. Has the leaseholder reported the pollution to DEHP as prescribed in their EA? If they have, what has DEHP done in response, and if they have not, what measures do DEHP and DNRM plan to
- penalise the leaseholder,

Yours sincerely

- require them to cleanup and pay for the environmental pollution,
- force them into future compliance, or strip them of their noncompliant leases?
- 3. Have the Charters Towers, Burdekin and Townsville City Councils been notified of this major pollution in their riverine watersheds? If so, what advice has been given to them in regard to their water testing and consumption? We possess the results of water testing from Charters Towers which show inter alia, arsenic levels at 86% of the elemental limits in the Ben Lomond leaseholder's EA.

We look forward to your response. The Ben Lomond pollution being major, long-lived, and continuing, we expect a timely and detailed response to all components of our questions.

David Sewell
Spokesperson for Citizens Against Mining Ben Lomond
(CAMBL)

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Sch 4 CTPI

We attach also the written advice of Dr Michael Rubenach, retired Senior Lecturer, Department of Geology, James Cook University. Dr Rubenach has been involved technically with the Ben Lomond issue since the original Minatome mining and the Warden's Court hearing of 1981-82:

"I essentially agree with the Laing Exploration Report, but am uncertain whether all the contamination comes from surface tailings. A minor proportion could come from groundwater accessing underground workings, as air would probably penetrate these as well. However, I agree that there is no doubt that the contamination is derived from exposed ore. Where do we go from here? Cattle, wildlife and people using creeks (especially Keelbottom Creek) could be affected. Keelbottom Creek should be regularly monitored. Similarly, the Burdekin River, for which Keelbottom Creek is a tributary, should be regularly monitored for radiation and relevant heavy metals in case contamination occurs subsequent to particular weather events.

Yours sincerely Dr Mike Rubenach 6 August 2016"

Virus-free, www.avast.com

Ben Lomond Receiving Water Monitoring Results from 22 December 2010 to 18 December 2015

Environmental authority holder Environmental authority (EA)

Uranium Mineral Ventures Incorporated EPML00418313

C1-1

EA Condition

Date	Site	рН	TDS	As	Cu	Mo	Zn	Pb	Hg	Mobile U	RA-225	Gross alpha	Gross beta
EA Conditions		6.5-8.5	500mg/L	0.007mg/L	1.0mg/L	0.05mg/L		0.01mg/L	0.001mg/L	0.02mg/L	0.5Bq/L	0.1Bq/L	0.5Bq/L
22/12/2010	SMW22	*	121	0.004	0.001	0.003	< 0.005	0.001	<0.0001	<0.001	0.4	<0.06	<0.1
	SWM6	*	148	0.007	0.001	0.008	0.006	<0.001	< 0.0001	0.003	<0.03	0.06	0.12
	SWM23	*	114	0.003	< 0.001	0.001	0.006	0.002	< 0.0001	< 0.001	< 0.03	< 0.07	<0.1
	KB2	*	88	<0.001	0.002	< 0.001	0.017	< 0.001	< 0.0001	<0.001	0.03	<0.07	0.11
	SWM24	*	204	0.014	0.002	< 0.001	0.01	0.001	<0.0001	<0.001	<0.03	<0.08	<0.1
	SWM11	*	92	<0.001	0.001	<0.001	0.008	0.001	<0.0001	< 0.001	< 0.03	<0.06	<0.1
	KB13	*	97	< 0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	0.03	<0.06	<0.1
	KB3	*	105	0.001	0.006	<0.001	0.021	0.001	<0.0001	< 0.001	< 0.04	<0.07	<0.1
	SWM4	*	200	0.004	0.002	<0.001	0.024	0.002	< 0.0001	< 0.001	< 0.03	< 0.08	0.12
							\ (<i>?}</i> })						
29/01/2011	SWM4	7.58	292	0.004	< 0.001	* (0.02	<0.001	<0.0001	0.001	<0.06	<0.05	<0.1
	SWM24	7.57	314	0.039	< 0.001	*	₹0.005	<0.001	<0.0001	<0.001	<0.06	< 0.05	< 0.1
	SWM6	7.79	144	0.002	0.004	*	0.021	<0.001	<0.0001	< 0.001	<0.06	0.05	<0.1
	SWM22	7.82	107	0.009	<0.001) \ *	0.006	<0.001	<0.0001	0.005	< 0.06	< 0.05	<0.1
	SWM11	7.75	58	<0.001	<0.001	*	<0.005	<0.001	< 0.0001	< 0.001	< 0.06	0.06	<0.1
	SWM23	7.21	100	0.003	0,001	*	0.013	0.002	<0.0001	<0.001	< 0.06	<0.07	0.14
	KB2	7.28	69	< 0.001	0.005	*	0.012	0.008	<0.0001	<0.001	<0.06	< 0.05	<0.1
	KB13	7.37	69 (<0.001	< 0.001	*	<0.005	< 0.001	<0.0001	<0.001	<0.06	<0.05	<0.1
	KB3	7.31	86	0.001	<0.001	*	<0.005	<0.001	< 0.0001	<0.001	< 0.06	<0.05	< 0.1
		26	>(0)										
11/03/2011	SWM24	7.75	175	0.02	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	*	<0.05	<0.1
	SWM22	3.37	71	0.013	0.006	0.003	0.099	0.012	<0.0001	0.006	*	0.79	0.37
	SWM11	6.79	55	<0.001	0.005	<0.001	0.022	0.012	<0.0001	0.002	*	< 0.07	0.19
	SWM4	7.84	189	0.008	<0.001	0.01	0.008	<0.001	<0.0001	0.006	*	<0.05	<0.1
	SWI/123	7.45	122	<0.001	<0.001	0.001	<0.005	<0.001	<0.0001	<0.001	*	<0.05	<0.1
	KB3	7.48	116	<0.001	0.005	<0.001	0.024	<0.001	<0.0001	<0.001	*	<0.05	<0.1
	KB13	7.46	74	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	*	<0.05	<0.1

	SWM6	*	*	*	*	*	*	*	*	*	*	*	*
	KB2	*	*	*	*	*	*	*	*	*	*	*	*
				1 10000									
30/04/2011	SMW22	7.8	98	0.002	<0.001	<0.001	<0.005	< 0.001	<0.0001	0.002	<0.03	<0.03	<0.1
	SWM6	8	304	0.004	< 0.001	0.011	<0.005	<0.001	<0.0001	0.025	0.03	0.19	<0.1
	SWM23	7.23	98	< 0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	< 0.001	<0.03	<0.05	<0.1
	KB2	7.67	89	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	SWM24	*	*	*	*	*	*	*	*	*	*	*	*
	SWM11	7.67	94	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB13	7.72	101	< 0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	*	<0.05	<0.1
	KB3	*	*	*	*	*	*	*	*	*	*	*	*
	SWM4	7.84	372	<0.001	0.002	0.004	0.008	0.001	<0.0001	0.003	0.04	<0.06	<0.1
						elita et la							
26/05/2011	SMW22	7.88	504	0.003	0.001	0.007	0.007	< 0.601	<0.0001	0.011	<0.03	0.21	<0.1
	SWM6	8.01	452	0.003	<0.001	0.016	<0.005	<0.001	<0.0001	0.049	0.05	0.73	<0.1
	SWM23	7.37	102	<0.001	<0.001	<0.001	<0.005	<0.00ì	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	7.76	115	< 0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	< 0.03	<0.05	<0.1
	SWM24	7.88	218	0.014	< 0.001	<0.001	∠<0.005	<0.001	< 0.0001	0.001	< 0.04	<0.08	0.1
	SWM11	7.61	97	< 0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB13	7.68	112	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	< 0.03	<0.05	<0.1
	KB3	7.94	218	< 0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	*	*	*
	SWM4	8.1	1090	0.004	0.001	<0.001	<0.005	0.001	<0.0001	0.007	<0.03	<0.16	<0.1
			Managar - T	The state of		2) 4#4 : 11 11							li i i su sijavelar
31/08/2011	SMW22	*	926	0.028	0,002	0.044	<0.005	<0.001	<0.0001	0.046	0.13	<0.28	0.11
	SWM6	*	447	0.004	<0.001	0.04	<0.005	<0.001	<0.0001	0.104	0.06	3.3	0.49
	SWM23	*	dry	dix	dry	dry	dry	dry	dry	dry	dry	dry	dry
	KB2	*	112	≪0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.04	<0.07	<0.1
	SWM24	*	284	0.044	<0.001	0.001	<0.005	<0.001	<0.0001	0.002	0.08	<0.09	<0.1
	SWM11	/*///	1/20	<0.001	< 0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	<0.06	<0.1
	KB13		109	< 0.001	<0.001	< 0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.06	<0.1
	KB3	*	351	<0.001	0.002	< 0.001	0.019	0.002	<0.0001	0.002	0.05	<0.07	<0.1
	SWM4	*	1380	0.007	0.002	0.001	<0.005	0.002	<0.0001	0.025	<0.05	0.79	<0.1
t de transport de la company de la compa La companya de la co													
30/09/2011	SMW22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	7.95	1380	0.01	< 0.001	0.001	<0.005	<0.001	<0.0001	0.018	<0.03	0.39	<0.1

	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	KB2	7.95	155	< 0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	<0.001	0.03	<0.05	<0.1
	SWM24	7.86	282	0.011	<0.001	0.001	< 0.005	< 0.001	< 0.0001	0.002	<0.03	<0.07	<0.1
	SWM11	7.86	156	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.0001	< 0.001	<0.03	< 0.05	<0.1
	KB13	7.24	147	< 0.001	< 0.001	< 0.001	<0.005	< 0.001	< 0.0001	< 0.001	<0.03	<0.05	<0.1
	KB3	7.89	419	< 0.001	<0.001	0.001	<0.005	< 0.001	< 0.0001	0.001	<0.03	<0.07	<0.1
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
			20			4	Jay Ala	y. His	ay Lusy i				,
23/10/2011	SMW22	7.49	892	0.002	< 0.001	0.021	<0.005	<0.001	<0.0001	0.019	0.06	0.31	<0.1
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	KB2	7.89	155	<0.001	< 0.001	< 0.001	< 0.005	< 0.001	<0.0001	<0.001	<0.04	<0.05	<0.1
	SWM24	7.94	303	0.414	0.004	0.002	0.01	0.001	<0.0001	0.001	< 0.03	< 0.05	<0.1
	SWM11	7.67	164	< 0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.1
	KB13	7.15	152	< 0.001	0.003	< 0.001	0.008	<0.901	<0.0001	< 0.001	< 0.04	<0.05	<0.1
	KB3	7.57	499	0.002	0.003	0.001	0.01	<0.001	<0.0001	0.001	0.07	<0.32	0.14
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	w 1							>	y.			e pi	
12/11/2011	SMW22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	div	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	KB2	7.99	191	0.001	0.001	<0.001	<0.005	< 0.001	<0.0001	< 0.001	0.03	< 0.05	<0.1
	SWM24	7.95	309	0.086	<0.001	0.001	<0.005	0.001	<0.0001	0.001	<0.03	<0.05	<0.1
	SWM11	7.85	199	0.001	0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.03	< 0.05	<0.1
	KB13	7.45	176	0.001	0.009	<0.001	0.018	<0.001	<0.0001	< 0.001	0.07	< 0.05	<0.1
	KB3	8.11	498	0.602	0.002	0.001	0.007	<0.001	<0.0001	< 0.001	0.05	< 0.05	<0.1
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	e folkerings.	10	(0)>							4.11.1			10.00
6/01/2012	SMW22	7.96	859	0.005	<0.001	0.019	<0.005	<0.001	<0.0001	0.01	< 0.07	0.2	<0.1
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	7.28	251	0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.04	<0.05	0.18
	KB2	7.5	85	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.06	0.82	<0.1
	SWM24	8.08	338	0.019	0.002	0.001	0.024	<0.001	<0.0001	0.001	<0.08	<0.05	0.14
	SWM11	7.39	105	<0.001	<0.001	<0.001	0.012	<0.001	<0.0001	<0.001	<0.06	<0.05	0.22
	KB13	7.54	100	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	< 0.06	<0.05	< 0.1

	KB3	7.49	131	<0.001	0.006	<0.001	0.018	0.001	<0.0001	<0.001	<0.06	0.47	<0.1
	SWM4	8.23	986	0.011	0.002	0.002	0.006	<0.001	<0.0001	0.006	<0.06	<0.18	<0.1
16/02/2012	SMW22	7.81	266	0.002	<0.001	0.008	<0.005	<0.001	<0.0001	0.002	0.04	<0.05	<0.1
	SWM6	8	290	0.008	<0.001	0.017	<0.005	<0.001	<0.0001	0.01	0.04	<0.08	<0.1
	SWM23	7.03	88	< 0.001	<0.001	< 0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	7.26	108	< 0.001	0.001	< 0.001	0.006	<0.001	<0.0001	<0.001	0.07	<0.05	<0.1
	SWM24	7.02	154	0.001	<0.001	0.011	0.006	<0.001	<0.0001	0.008	0.1	0.26	0.1
	SWM11	7.23	60	< 0.001	<0.001	<0.001	0.007	0.002	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB13	7.34	76	< 0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB3	7.47	142	0.001	0.002	< 0.001	0.007	0.003	<0.0001	<0.001	< 0.03	<0.05	<0.1
	SWM4	7.96	382	0.002	<0.001	<0.001	0.009	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
20/04/2012	SWM22	7.39	406	0.002	0.001	0.005	<0.005	<0.001	<0.0001	0.003	0.04	<0.05	<0.1
	SWM6	7.68	418	0.004	<0.001	0.02	0.03	<0.001	<0.0001	0.022	0.05	0.25	0.12
	SWM23	7.15	90	< 0.001	< 0.001	< 0.001	0.011	0.003	<0.0001	<0.001	< 0.03	<0.05	<0.1
	SWM24	7.88	314	0.014	< 0.001	0.001	<0.005	<0.001	<0.0001	<0.001	0.04	<0.05	<0.1
	SWM11	7.46	83	< 0.001	< 0.001	<0.001	0.024	0.001	<0.0001	<0.001	<0.03	<0.05	< 0.1
	KB13	7.49	85	< 0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	< 0.03	<0.05	<0.1
	KB2	*	*	*	*	*//	*	*	*	*	*	*	*
	KB3	*	*	*	*	///*/>	*	*	*	*	*	*	*
	SWM4	7.81	932	0.004	<0.001	<0.001	<0.005	<0.001	<0.0001	0.007	0.03	0.1	<0.1
				6	$\frac{\lambda}{\lambda}$								
17/05/2012	SMW22	7.82	580	0.003	0.002	0.009	0.009	0.002	<0.0001	0.01	<0.03	0.18	<0.1
	SWM6	7.65	470	0.005	<0.001	0.035	<0.005	< 0.001	< 0.0001	0.045	0.03	1.31	0.19
	SWM23	7.36	101	0,002	0.002	< 0.001	0.061	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	7.78	9.5	0.001	<0.001	< 0.001	0.019	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	SWM24	7.84	316/~	0.041	0.005	0.001	0.012	<0.001	<0.0001	0.002	<0.03	<0.05	<0.1
	SWM11	7.62	99	<0.001	< 0.001	<0.001	0.008	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB13	7.64	99	<0.001	0.005	<0.001	0.015	0.003	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB3	<u>7/.77</u>	212	0.002	< 0.001	< 0.001	0.015	0.003	<0.0001	<0.001	<0.03	<0.05	<0.1
	SWM4	8.49	1250	0.002	0.002	0.001	0.006	<0.001	<0.0001	0.033 -	<0.03	0.56	0.2
**.													
30/06/2012	SMW22	8.15	626	0.005	<0.001	0.018	0.006	0.001	<0.0001	0.047	*	1.21	<0.1
	SWM6	8.08	610	0.001	<0.001	0.012	<0.005	<0.001	<0.0001	0.036	0.04	0.37	0.11

	SWM23	7.21	284	<0.001	<0.001	<0.001	-0 00E	-0.001	0.0001	-0.001	0.00	0.05	
	KB2	7.21 7.49	204 173	<0.001	<0.001	<0.001	<0.005	<0.001	0.0001	<0.001	0.06	<0.05	<0.1
	SWM24	*	*	*	* .	*	0.008 *	0.001 *	<0.0001 *	<0.001 *	0.43 *	<0.05 *	<0.1 *
	SWM11	7.48	123	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.04	<0.05	<0.1
	KB13	7.47	181	< 0.001	0.002	<0.001	0.009	<0.001	0.0001	<0.001	0.007	<0.05	<0.1
	KB3	7.84	227	<0.001	0.003	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	SWM4	8.16	1110	0.002	0.001	<0.001	0.006	<0.001	<0.0001	0.022	<0.03	0.38	
					0.001	401001	0.000	40.001	10.0001	0.022	1 100	0.56	<0.1
26/07/2012	SMW22	7.85	265	< 0.001	<0.001	0.005	<0.005	<0.001	<0.0001	0.005	<0.03	0.09	<0.10
	SWM6	8.03	328	0.005	<0.001	0.009	<0.005	<0.001	<0.0001	0.012	<0.03	0.32	<0.10
	SWM23	7.06	126	0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	< 0.001	<0.03	< 0.05	<0.10
	KB2	7.38	74	<0.001	< 0.001	<0.001	<0.005	0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM24	8.07	267	0.015	< 0.001	<0.001	<0.005	<0.001	<0.0001	0.001	<0.03	<0.05	<0.10
	SWM11	7.01	75	< 0.001	< 0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	KB13	7.31	67	< 0.001	< 0.001	< 0.001	< 0.005	<0.901	<0.0001	<0.001	<0.03	<0.05	<0.10
	КВ3	7.65	133	<0.001	0.002	< 0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM4	7.82	398	0.001	< 0.001	< 0.001	<0.005	<0.001	< 0.0001	0.001	<0.03	<0.05	<0.10
•	0.470	Last T	1,50	00 a.) in with the			44.0		
19/09/2012	KB 13	7.55	108	<0.001	0.001	<0.001	<0.005	0.002	<0.0001	<0.001	<0.03	<0.05	<0.10
	KB 2	7.72	123	< 0.001	< 0.001	<0.001	₹0.005	0.006	<0.0001	<0.001	<0.03	< 0.05	<0.10
	SWM 22	7.74	899	0.005	<0.001	0.014	<0.005	<0.001	<0.0001	0.028	0.05	0.28	0.14
	SWM 23	7.19	187	0.002	<0.001	<0.001	0.076	<0.001	<0.0001	< 0.001	<0.03	<0.05	<0.10
	SWM 24	8.1	339	0.023	0.001	0.001	0.008	0.004	< 0.0001	0.001	< 0.03	<0.05	< 0.10
	SWM 11	7.64	139	<0.001	<0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.10
	SWM 4	8.04	1310	0.005	0.001	< 0.001	0.005	0.005	< 0.0001	0.018	< 0.03	0.18	< 0.10
	SWM 6	8.07	570	0.006	<0.001	0.034	<0.005	0.002	< 0.0001	0.044	< 0.03	0.72	0.23
	KB 3	7.91	288	○ <0.001	0.001	<0.001	<0.005	0.003	<0.0001	<0.001	< 0.03	<0.05	< 0.10
		A 6	100				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 (4)		unik şahri	14 I		M. A.
31/10/2012	KB13	//1//	103	<0.001	0.009	< 0.001	0.182	0.005	<0.0001	< 0.001	0.03	< 0.05	< 0.1
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SMIM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	320	0.012	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	0.06	<0.06	< 0.1
	SWM11	*	133	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	0.04	<0.05	< 0.1

	KB2	*	130	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	0.12	<0.05	<0.1
	KB3		384	<0.001	0.002	<0.001	0.04	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
11/12/2012	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
11/12/2012	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	7.98	314	0.063	<0.001	0.001	0.096	0.003	<0.0001	<0.001	9.1	<0.05	<0.1
	SWM11	7.98 7.98	174	< 0.003	0.001	<0.001	0.023	0.003	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	8.08	146	<0.001	<0.001	<0.001	0.023	<0.002	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2 KB3	8.06	462	<0.001	<0.001	<0.001	0.054	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
er en en en en en en en	ND3	8.00	402	70.001	\0.001	\0.001	0.034	\0.001	10.0001	\0.001	\0.03	\0.03	\0.1
15/01/2013	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
, ,	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry <	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	1 dry	dry	dry	dry	dry	dry	dry
	SWM24	8.03	324	0.02	0.003	0.001	0.059	0.003	<0.0001	<0.001	<0.03	<0.07	<0.1
	SWM11	7.78	218	0.002	0.001	0.001	0.021	0.002	< 0.0001	< 0.001	< 0.03	<0.05	<0.1
	KB2	8.3	201	< 0.001	<0.001	<0.001	0.02	0.001	< 0.0001	< 0.001	< 0.03	<0.05	<0.1
	KB3	7.81	550	<0.001 <	<0.001	<0.001	0.008	< 0.001	< 0.0001	< 0.001	< 0.03	<0.05	< 0.1
						Kiranga							
22/02/2013	KB13	7.64	73	<0.001	<0.001	< 0.001	< 0.005	< 0.001	<0.0001	< 0.005	< 0.04	< 0.05	< 0.10
	SWM22	8.19	252	0.002	<0.001	0.012	0.015	< 0.001	< 0.0001	0.002	< 0.03	0.08	<0.1
	SWM23	7.41	100	<0.001	< 0.001	< 0.001	<0.005	< 0.001	< 0.0001	<0.001	0.08	< 0.05	< 0.1
	SWM6	8.29	2.52	0.006	< 0.001	0.021	<0.005	< 0.001	<0.0001	0.012	< 0.03	0.12	<0.1
	SWM4	8.29	466	0.003	< 0.001	< 0.001	< 0.005	<0.001	< 0.0001	< 0.001	0.04	<0.05	<0.1
	SWM24	8,25	261	0.037	< 0.001	0.002	0.014	< 0.001	< 0.0001	< 0.001	0.03	<0.05	<0.1
	SWM11	7,65	73	< 0.001	0.001	< 0.001	0.039	0.003	< 0.0001	< 0.001	0.08	< 0.05	<0.1
	KB2	7.62	69	< 0.001	0.002	< 0.001	0.021	<0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.1
	K83	7.8	103	< 0.001	< 0.001	<0.001	0.033	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	//												The control of the co
26/03/2013	KB2	7.31	49	< 0.001	< 0.001	< 0.001	*	<0.001	<0.0001	<0.001	*	*	*
	SWM22	7.96	459	0.002	< 0.001	0.012	*	0.001	<0.0001	0.009	*	*	*

	SWM11	7.32	51	<0.001	<0.001	<0.001	*	<0.0010	<0.0001	<0.001	*	*	*
27/03/2013	KB13	7.46	49	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM22	8	272	0.002	< 0.001	0.013	<0.005	< 0.001	<0.0001	0.01	<0.03	0.16	< 0.10
	SWM23	7.23	94	0.001	< 0.001	< 0.001	<0.005	< 0.001	<0.0001	< 0.001	<0.04	<0.05	< 0.10
	SWM6	8.1	358	0.008	<0.001	0.03	<0.005	< 0.001	<0.0001	0.037	0.05	0.68	< 0.10
	SWM4	8.09	520	0.006	0.002	0.002	0.006	0.002	<0.0001	0.003	<0.03	0.08	< 0.10
	SWM24	8.06	290	0.018	< 0.001	0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	< 0.10
	SWM11	7.42	61	< 0.001	<0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	<0.05	< 0.10
	KB2	7.32	57	<0.001	0.001	<0.001	0.006	<0.001	<0.0001	<0.001	<0.03	<0.05	< 0.10
	KB3	7.64	93	<0.001	0.002	<0.001	0.01	0.001	<0.0001	< 0.001	<0.03	<0.05	<0.10
30/04/2013	VD12	7.0	C4	-0.001	.0.004	.0.004	0.005						
50/04/2015	KB13 SWM22	7.6 8.08	64	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM23	8.08 7.46	303	0.003	<0.001	0.01	<0.005	0.001	<0.0001	0.007	<0.03	<0.05	< 0.10
	SWM6	7.46 8.15	83	0.001	<0.001	0.001	0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	< 0.10
	SWM4	8.18	372 727	0.007	0.001	0.023	0.008	<0.001	<0.0001	0.028	0.04	0.68	<0.10
	SWM24	8.05	727	0.006	<0.001	<0.001	<0.005	<0.001	<0.0001	0.006	<0.03	<0.05	<0.10
			274	0.017	0.002	<0.001	0.008	<0.001	<0.0001	<0.001	<0.03	<0.06	<0.10
	SWM11 KB2	7.48 7.88	62	<0.001	0.017	<0.001	0.069	0.005	<0.0001	<0.001	<0.04	<0.05	<0.10
	•		43	<0.001	<0.001	<0.001	₹0.005	0.002	<0.0001	<0.001	<0.03	<0.05	<0.10
	KB3	7.72	104	<0.001	0.003	(0.00)	0.009	0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
30/05/2013	KB13	*	62	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM22	*	469	0.007	<0.001	0.011	<0.005	< 0.001	<0.0001	0.016	<0.03	0.17	0.14
	SWM23	*	122	0.002	<0.001	<0.001	< 0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM6	*	433	0.007	<0.001	0.032	< 0.005	0.002	<0.0001	0.058	<0.03	1.34	0.21
	SWM4	*	1360	0.008	<0.001	<0.001	<0.005	< 0.001	< 0.0001	0.019	<0.03	0.42	0.17
	SWM24	*	290	0.017	0.004	0.001	0.006	0.003	<0.0001	0.001	<0.03	<0.05	<0.10
	SWM11	*(72	<0.001	<0.001	< 0.001	< 0.005	<0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.10
	KB2		*	*	*	*	*	*	*	*	*	*	*
	KB3	*	*	*	*	*	*	*	*	*	*	*	*
25/06/2013	КВ13	*	64	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM22	*	597	0.012	<0.001	0.013	0.007	< 0.001	<0.0001	0.021	< 0.03	0.32	<0.10
	SWM23	*	108	0.006	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.10

	SWM6	*	451	0.005	< 0.001	0.034	<0.005	<0.001	<0.0001	0.078	<0.03	1.45	0.27
	SWM4	*	1290	0.008	< 0.001	<0.001	<0.005	0.002	<0.0001	0.024	<0.03	0.43	<0.10
	SWM24	*	286	0.028	< 0.001	0.001	<0.005	<0.001	<0.0001	0.002	0.03	<0.05	<0.10
	SWM11	*	78	< 0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	0.03	<0.05	< 0.10
	KB2	*	61	< 0.001	< 0.001	< 0.001	<0.005	< 0.001	<0.0001	< 0.001	<0.03	\\<0.05>	< 0.10
	KB3	*	115	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
23/07/2013	KB13	*	79	<0.001	< 0.001	<0.001	<0.005	0.001	<0.0001	< 0.001	<0.03	<0.05	<0.10
	SWM22	*	1020	0.048	0.002	0.037	0.006	0.002	<0.0001	0.04	0.04	0.79	<0.10
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	*	440	0.008	< 0.001	0.044	<0.005	< 0.001	<0.0001	0.086	0.03	1.43	0.33
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	304	0.02	<0.001	0.001	<0.005	<0.001	<0.0001	0.001	< 0.03	< 0.05	< 0.10
	SWM11	*	77	< 0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	< 0.05	< 0.10
	KB2	*	99	< 0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	<0.05	< 0.10
	KB3	*	161	< 0.001	< 0.001	< 0.001	<0.005	√0.001	< 0.0001	<0.001	< 0.03	< 0.05	< 0.10
14/08/2013	KB13	*	160	< 0.001	0.007	<0.001	0.016	0.003	<0.0001	<0.001	*	*	*
	SWM22	dry	dry	dry	dry	dry	diy	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	*	527	0.01	<0.001	0.049	<0.005	0.002	< 0.0001	0.107	*	*	*
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	373	0.016	0.004	0.001	0.015	< 0.001	< 0.0001	< 0.001	*	*	*
	SWM11	*	123	<0.001	< 0.001	< 0.001	<0.005	0.001	<0.0001	<0.001	*	*	*
	KB2	*	153	< 0.601	<0.001	< 0.001	<0.005	< 0.001	< 0.0001	<0.001	*	*	*
	KB3	*	183	<0,001	<0.001	< 0.001	<0.005	< 0.001	<0.0001	<0.001	*	*	*
			(2)										
28/02/2014	KB3	*	980	<0.001	< 0.001	< 0.001	0.01	< 0.001	<0.0001	<0.001	< 0.05	<0.05	<0.1
	KB13	*//	54	< 0.001	0.001	< 0.001	<0.005	0.001	<0.0001	< 0.001	0.12	< 0.05	<0.1
	SWM22	> \	127	0.002	0.003	0.003	0.014	0.003	< 0.0001	< 0.001	< 0.05	< 0.06	< 0.13
	SWM6		180	0.005	< 0.001	0.008	< 0.005	< 0.001	< 0.0001	0.003	0.08	<0.1	<0.2
	SWM4	> *	151	0.002	<0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	<0.05	<0.07	<0.14
	SWM24	*	284	0.024	0.012	< 0.001	<0.005	0.001	<0.0001	<0.001	<0.05	<0.16	<0.31
	SWM11	*	75	0.001	<0.001	< 0.001	< 0.001	<0.005	<0.0001	<0.0001	<0.05	<0.05	<0.1
	KB2	*	60	< 0.001	0.001	< 0.001	<0.005	0.001	<0.0001	< 0.001	<0.05	<0.05	<0.1

	SWM23	*	67	0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	i gendi		:	et jet i		4 4,144. 4	iji dharasa				e egypter f	*	
22/04/2014	KB3	*	80	0.001	0.002	<0.001	0.006	0.004	<0.0001	<0.001	*	*	*
	KB13	*	45	<0.001	0.001	< 0.001	0.006	<0.001	< 0.0001	< 0.001	*	*	*
	SWM22	*	132	0.002	0.001	0.003	<0.005	<0.001	< 0.0001	< 0.001	*	*	*
	SWM6	*	233	0.008	0.007	0.006	0.02	0.004	< 0.0001	0.008	(* \ \ \ \	*	*
	SWM4	*	262	0.002	0.003	< 0.001	0.012	0.001	< 0.0001	<0.001	*	*	*
	SWM24	*	294	0.021	< 0.001	0.001	<0.005	<0.001	<0.0001	<0.001	*	*	*
	SWM11	*	69	0.002	0.001	< 0.001	<0.005	0.002	< 0.0001	<0.001	*	*	*
	KB2	*	40	< 0.001	0.002	< 0.001	<0.005	0.002	< 0.0001	<0.001	*	*	*
	SWM23	*	59	0.002	0.002	< 0.001	0.007	0.002	< 0.0001	< 0.001	*	*	*
								200					
18/06/2014	KB3	*	121	< 0.001	0.001	< 0.001	<0.005	<0.001	<0.0001	<0.001	<0.05	<0.05	<0.10
	KB13	*	61	<0.001	0.002	<0.001	0.02	0.002	<0.0001	< 0.001	< 0.05	<0.05	< 0.10
	SWM22	*	224	0.001	< 0.001	0.004	< 0.005	<0.001	<0.0001	0.003	< 0.05	0.09	< 0.10
	SWM6	*	395	0.004	0.001	0.014	<0.005	0.003	<0.0001	0.035	< 0.05	0.9	0.33
	SWM4	*	382	0.002	0.002	< 0.001	0.014	0.003	< 0.0001	< 0.001	< 0.05	<0.05	<0.10
	SWM24	*	303	0.015	< 0.001	0.001	0.61	0.001	< 0.0001	0.001	<0.05	<0.05	<0.10
	SWM11	*	65	<0.001	0.002	<0.001	0.022	0.006	< 0.0001	<0.001	<0.05	<0.05	< 0.10
	KB2	· *	53	<0.001	< 0.001	<0.001	₹0.005	0.003	< 0.0001	<0.001	<0.05	<0.05	< 0.10
	SWM23	*	97	0.001	0.008	<0.001	0.019	0.002	< 0.0001	<0.001	<0.05	<0.05	< 0.10
•					$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$					14 M	:1.	100	
3/09/2014	KB3	*	102	<0.001	<0.001	<0.001	<0.005	0.001	< 0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	*	85	<0.001	<0.001	< 0.001	0.148	< 0.001	< 0.0001	< 0.001	<0.05	<0.05	<0.1
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry 🥒	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	*	1500)0.01	0.002	<0.001	0.015	0.004	< 0.0001	0.019	<0.05	0.2	0.24
	SWM24	*	295	0.033	0.007	< 0.001	0.022	0.005	< 0.0001	0.001	<0.05	<0.05	<0.1
	SWM11	*(66	<0.001	<0.001	< 0.001	<0.005	< 0.001	< 0.0001	< 0.001	< 0.05	< 0.05	<0.1
	KB2	2)/*//	71	<0.001	<0.001	<0.001	<0.005	0.003	< 0.0001	< 0.001	<0.05	<0.05	<0.1
	5WM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
47/40/0044													* * * * *
17/10/2014	KB3	*	166	0.002	0.002	<0.001	0.022	0.006	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	*	86	<0.001	<0.001	<0.001	<0.005	0.006	<0.0001	<0.001	<0.05	<0.05	<0.1
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry

	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	281	0.023	0.005	< 0.001	0.008	0.004	<0.0001	< 0.001	0.06±0.011	≤ 0. 09	<0.18
	SWM11	*	91	< 0.001	< 0.001	< 0.001	<0.005	< 0.001	<0.0001	< 0.001	<0.05	<0.05	<0.1
	KB2	*	108	< 0.001	< 0.001	< 0.001	0.009	0.002	<0.0001	< 0.001	<0.05	<0.05	<0.1
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
								TO SEE					
12/12/2014	KB3	*	286	0.002	0.008	< 0.001	0.012	0.006	<0.0001	< 0.001	0.06	0.06	<0.1
	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	433	4.39	0.036	0.003	0.28	0.054	<0.0001	0.008	0.47	0.47	0.84
	SWM11	*	110	0.004	0.003	< 0.001	<0.005	0.003	<0.0001	< 0.001	<0.05	<0.05	< 0.1
	KB2	*	104	<0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.05	<0.05	< 0.1
	SWM23	dry	dry	dry	dry	dry	dry	dry 📏	dry	dry	dry	dry	dry
t east at a													
27/02/2015	KB3	*	132	0.002	0.002	<0.001	0.012	0.004	<0.001	<0.001	<0.05	<0.05	< 0.1
	KB13	*	77	<0.001	<0.001	<0.001	<0.005	< 0.001	< 0.001	< 0.001	< 0.05	<0.05	<0.1
	SWM22	*	194	0.004	< 0.001	0.009	<0.005	0.006	< 0.001	0.001	< 0.05	<0.05	< 0.1
	SWM6	*	243	0.033	0.002	0.022	0.012	0.022	<0.001	0.019	0.18	0.49	0.16
	SWM4	*	262	0.005	0.001	<0.001	0.012	0.005	<0.001	<0.001	0.1	<0.05	< 0.1
	SWM24	*	366	0.016	<0.001	0.002	<0.005	0.003	<0.001	0.003	< 0.05	0.1	< 0.1
	SWM11	*	75	<0.001	0,002	< 0.001	0.022	0.013	<0.001	<0.001	0.07	<0.05	< 0.1
	KB2	*	74	< 0.001.	<0.001	<0.001	0.009	0.002	<0.001	<0.001	0.05	<0.05	< 0.1
	SWM23	*	89	0.082	0.005	< 0.001	<0.005	<0.001	<0.001	<0.001	<0.05	<0.05	<0.1
	i wigo		_ (7)										
29/05/2015	KB3	*	303	0.001	0.002	<0.001	0.009	0.007	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	> dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
, da	SWI/124	*	398	0.007	< 0.001	0.001	<0.005	<0.001	<0.0001	0.005	<0.05	0.14 ±0.026	< 0.1
	SWM11	*	115	0.001	0.002	<0.001	<0.005	0.008	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB2	*	104	<0.001	< 0.001	< 0.001	<0.005	0.004	<0.0001	< 0.001	<0.05	<0.05	< 0.1

	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
12/08/2015	KB3	*	394	0.011	0.002	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
, ,	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	Vip	dry	dry
	SWM24	*	363	0.011	0.002	0.001	0.008	<0.001	<0.0001	0.003	<0.03	<0.05	<0.1
	SWM11	*	156	0.002	0.001	< 0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	*	142	< 0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
		,	,		٠.,	u., ,	a. _y	ui y		uly	ury	uiy	ury
15/10/2015	KB3	7.19	442	0.001	0.002	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	dry	dry ·	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	1 dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM11	8.02	223	0.002	< 0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB2	8.47	193	0.001	< 0.001	<0.001	<0.0050	0.001	< 0.0001	<0.001	<0.05	<0.05	<0.1
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	to a second of the second of t			<	1 ()		* ***						
18/12/2015	KB3	*	*	0.002	0.002	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB2	*	*	0.003	0.002	<0.001	<0.005	0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	SWM11	*	*	0.009	0.002	0.002	<0.005	0.002	<0.0001	<0.001	<0.005	< 0.05	<0.1

Date	Site	рН	TDS	As	Cu	Мо
EA Conditions			500mg/L	0.007mg/L	1.0mg/L	0.05mg/L
22/12/2010	BL SP DS1	dry	dry	dry	dry	dry
	BL SP DS2		604	0.015	0.013	0.001
	GWM16		250	0.01	0.004	0.001
	GWM6		722	0.009	0.002	<0.001
00/04/0044						
29/01/2011	BL SP DS1	dry	dry	dry	dry	dry
	BL SP US	8.09	376	0.032	0.006	
	BL SP DS2	7.46	504	0.036	0.004	
	GWM6	7.27	740	0.038	0.02	>
	GWM16	7.49	135	0.009	0.002	
11/02/2011	DI CD DC1	a said aga di war alaa s	11 to 11			
11/03/2011	BL SP DS1 BL SP DS2	dry	dry 575	dry (dry	dry
	BL SP US	8.13 7.98	575 3020	0.02	0,001	<0.001
	GWM6	7.98 8.19	759	0.002	0.006	<0.001
	GWM16	7.43	739 136	0.014	0.003	<0.001
	GAMINITO	7.43	T20	0.01	<0.001	<0.001
30/04/2011	BL SP DS1	dry	dry	dry	dry	des
30/04/2011	BL SP DS1	7.44	832	0.013	0.011	dry <0.001
	BL SP US	7.33	3920	0.006	0.011	<0.001
	GWM6	7.12	190	0.000	0.002	0.001
	GWM16	7.85	760	0.01	0.002	< 0.001
TANGEL PARK	GWWIE	7.05	~ (9/5)	0.01	0.002	\0.001
26/05/2011	BL SP DS1	dry	dry	dry	dry	dry
20,03,2011	BL SP DS2	7.19	1030	0.036	0.005	<0.001
	BL SP US	7.12	4160	0.006	0.002	<0.001
	GWM6	7.83	702	0.01	<0.001	< 0.001
	GWM16	7.15	201	0.027	0.001	0.002
			,			
31/08/2011	BL SP DS1	dry	dry	dry	dry	dry
•	BL SP DS2		4300	0.01	0.002	<0.001
	BL SP US	·/s)	1160	0.056	0.02	<0.001
	GWM6		751	0.01	0.003	<0.001
	GWM16		438	0.034	0.004	0.004
	(907					
30/09/2011	BLSP DS1	dry	dry	dry	dry	dry
	BL SP DS2	7.21	1110	0.004	0.001	<0.001
	Bì SP US	7.04	4440	0.028	< 0.001	0.001
	GWM6	7.54	729	0.012	0.001	< 0.001
	GWM16	7.37	522	0.031	0.002	0.004
23/10/2011	BL SP DS1	dry	dry	dry	dry	dry
	BL SP DS2	7	1200	0.053	0.012	<0.001
	BL SP US	7.13	4660	0.009	0.008	< 0.001
	GWM6	7.67	757	0.014	0.002	< 0.001
	GWM16	7.26	559	0.025	0.003	0.003

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	12/11/2011	BL SP DS1	dry	dry	dry	dry	dry
		BL SP DS2	7.37	1290	0.062	0.006	< 0.001
		BL SP US	7.27	4430	0.01	0.002	< 0.001
		GWM6	7.75	815	0.018	0.002	< 0.001
		GWM16	7.44	706	0.025	0.003	0.003
	6/01/2012	BL SP DS1	dry	dry	dry	dry	dry
		BL SP DS2	7.65	1410	0.056	0.006	0.001
		BL SP US	7.43	5080	0.007	0.002	<0.001
		GWM6	8.04	798	0.015	0.002	<0.001
		GWM16	7.36	529	0.022	0.004	0.002
	16/02/2012	BL SP DS1	dry	dry	dry	dry	dry
		BL SP DS2	7.65	290	0.018	Ø.002	0.001
		BL SP US	7.37	776	0.006 <	0.026	<0.001
		GWM6	8.09	798	0.014	0.002	<0.001
		GWM16	7.08	240	(0.011)	0.002	<0.001
٠							
	20/04/2012	BL SP DS1	7.31	1230	0.006	0.009	<0.001
		BL SP DS2	7.34	550	0.004	<0.001	<0.001
		BL SP US	7.28	1260	0.003	<0.001	<0.001
		GWM6	7.92	830	0.008	<0.001	<0.001
		GWM16	7.22	(234)	0.015	<0.001	0.001
	17/05/2012	BL SP DS1	dry	dry	dry	dry	dry
		BL SP DS2	7.18	692	0.023	0.012	<0.001
		BL SP US	7.15	1520	0.007	<0.001	<0.001
		GWM6	7,94	814	0.012	0.003	0.002
	Marie e a central	GWM16	7.18	352	0.028	0.004	0.003
	00/00/0040						
	30/06/2012	BL SP DS1	dry	dry	dry	dry	dry -0.001
		BL SP DS2	7.59	910	0.027	0.008	<0.001 <0.001
		BL SP US	7.54	1670	0.007	<0.001 0.003	0.001
		GWM6 GWM16	8.3 7.69	830 620	0.007 0.025	0.003	0.001
		GAMAITO	7.09		0.025	0.004	0.005
	26/07/2012	BLSP DS1	dry	dry	dry	dry	dry
	20/07/2012	BL SP DS2	7.34	421	0.018	<0.001	<0.001
		BL SP US	7.15	1720	0.018	0.001	<0.001
		GWM6	7.77	761	0.008	0.001	<0.001
		GWM16	6.94	465	0.014	0.001	0.002
		GVVIVIED	0.54		0.011		0.002
	19/09/2012	BL SP DS1	dry	dry	dry	dry	dry
	13/03/2012	BL SP DS2	7.33	1040	0.017	0.003	<0.001
		BL SP US	7.18	2220	0.004	0.004	< 0.001
		GWM 6	7.63	783	0.008	<0.001	< 0.001
		GWM 16	7.02	561	0.017	0.006	0.002
							-

	•					
31/10/2012	BL SP DS1		dry	dry	dry	dry
	BL SP DS2		1100	0.067	0.001	0.002
	BL SP US		1880	0.008	0.041	< 0.001
	GWM6		1220	0.016	0.018	< 0.001
	GWM16		680	0.018	0.004	0.002
•						
11/12/2012	BL SP DS1	dry	dry	dry	dry <	dry
	BL SP DS2	7.59	1150	0.069	0.011	<0.001
	BL SP US	-	-	0.032	0.054	<0.001
	GWM6	7.46	638	0.022	0.01	0.002
	GWM16	7.93	774	0.008	<0.001	<0.001
With the						:
15/01/2013	BL SP DS1	dry	dry	dry <	dry	dry
	BL SP DS2	7.44	1240	0.046	0,004	0.001
	BL SP US	7.3	2000	0.011	0.019	< 0.001
	GWM6	7.97	774	0,007	0.002	<0.001
	GWM16	7.34	1580	0.022	0.011	0.002
system :						
22/02/2013	BL SP DS1	dry	dry	dry	dry	dry
	BL SP DS2	7.84	507 <<	0.057	0.003	<0.001
	BL SP US	7.04	568	0.014	0.055	0.002
	GWM6	8.22	800	0.108	0.016	0.002
	GWM16	6.7	3310	0.068	0.072	0.003
			~ (9/s) ×		313.7 	2.222
27/03/2013	BL SP DS1	dry	dry	dry	dry	dry
,,	BL SP DS2	7.55	704	0.063	0.003	0.001
	BL SP US	7.46	2700	0.017	0.071	< 0.001
	GWM6	7.91	706	0.055	0.001	< 0.001
	GWM16	7.15	3820	0.099	0.117	0.003
			0020	0.000		0.000
30/04/2013	BL SP DS1	dry	dry	dry	dry	dry
,,	BL SP DS2	7.53	995	0.015	0.002	<0.001
	BL SP US	NT	NT	0.003	0.002	< 0.001
	GWM6	7.98	731	0.021	0.003	<0.001
	GWM16	7.25	709	0.01	0.004	<0.001
	$(\Omega \wedge Z)$,	, 33	0.01	0.001	10.002
30/05/2013	BL SP DS1	dry	dry	dry	dry	dry
(\)	BLSP DS2	u.,	981	0.092	0.011	0.001
	Bi SP US		1640	0.053	0.136	0.001
(\bigcirc)	GWM6		715	0.015	0.002	<0.001
	GWM16		5050	0.053	0.063	0.003
	GWWITO		3030	0.055	0.005	0.005
25/06/2013	BL SP DS1	dry	dry	dry	dry	dry
23/00/2013	BL SP DS1	ui y	1090	0.085	0.002	0.003
	BL SP US		7030	0.083	0.002	< 0.005
	GWM6		753	0.045	0.108	0.001
	GWM16					
	GAMINITO		12900	0.271	0.356	0.011

23/07/2013	BL SP DS1	dry	dry	dry	dry	dry
	BL SP DS2		1130	0.104	0.003	0.002
	BL SP US	dry	dry	dry	dry	dry
	GWM6	,	766	0.033	0.001	0.001
	GWM16	dry	dry	dry	dry	dry
14/08/2013	BL SP DS1	dry	dry	dry	dry	dry
	BL SP DS2	•	1080	0.107	0.014	0.002
	BL SP US	dry	dry	dry	dry	dry
	GWM6	,	770	0.022	0.003	<0.001
	GWM16	dry	dry	dry	dry	dry
· 医骨髓 (基础的						
28/02/2014	BL SP DS1	Dry	* - * **			
	BL SP DS 2	•	633	0.082	0.012	0.001
	BL SP US		1220	0.007	0.02	< 0.001
	GWM16		212	0.008	0.003	<0.001
	GWM6		736	0.014	0.005	< 0.001
gradiante de la companya de la compa	antina di Graffia di Salata di Salata di Salata di S	e type e earle Heriotyke gran			en er ar skrivere fransk skriver i ste De liger de dynasje griger og skrive	
22/04/2014	BL SP DS1	Dry				
	BL SP DS 2	·	931	0.051	0.009	< 0.001
	BL SP US		1880	0.007	0.018	< 0.001
	GWM16		120	0.011	0.003	<0.001
	GWM6		788	0.009	0.002	<0.001
10/07/2014	BL SP DS1	Dry				
	BL SP US		2940	0.026	0.29	< 0.001
	GWM16	^	448	0.019	0.005	0.002
	GWM6		699	0.01	0.004	<0.001
	海里是基础。 人					
23/09/2014	BL SP DS1	Dry				
	BL SP US	Dry				
	GWM16	1	1470	0.033	0.029	0.008
	GWM6	/	718	0.012	0.004	< 0.001
					The first server In the cryster of	
17/10/2014	BL SP DS1	Dry				
	BLSP DS 2		1590	0.142	0.007	0.002
\wedge	BL\$# US	Dry				
	GWM16		1960	0.039	0.055	0.005
	GWM6		736	0.012	0.009	< 0.001
12/10/2014	BL SP DS1	Dry				
	BL SP DS 2		1490	0.163	0.005	0.002
	BL SP US	Dry				
	GWM16	Dry				
	GWM6		720	0.012	0.005	<0.001
					154 ₁₄	
27/02/2015	BL SP DS1	Dry				

	BL SP DS 2		1800	0.134	0.008	0.002
	BL SP US	Dry				
	GWM16	•	3270	0.044	0.071	0.003
	GWM6		749	0.007	0.004	<0.001
1.4	1 11 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		g talk for	
29/06/2015	BL SP DS1	Dry				
	BL SP US	Dry				
	GWM16	Dry				
	GWM6		716	0.056	0.007	0.002
V,		45.15	y to	14.11		
12/08/2015	BL SP DS1	Dry			/7	→
	BL SP US	Dry				,
	GWM16	Dry				
:	GWM6		736	0.007	0.002	<0.001
	Villa Little		1. No. 1.		19. E.E.	e e e e e e e e e e e e e e e e e e e
15/10/2015	BL SP DS1	Dry		/7	>	
	BL SP DS 2	6.84	1270	0.105	0.003	0.001
	BL SP US	Dry				
	GWM16	Dry			0.000	0.004
	GWM6	6.64	787	0.113	0.039	0.004
10/10/2015	BL SP DS1	4 - 4 +			A + 1	· · · · · · · · · · · · · · · · · · ·
18/12/2015	BL SP DS 2		2760	0.272	0.044	0.003
	BL SP US		2700	0.272	0.044	0.005
	GWM16		~ (0/3)			
	GWM6		224	0.125	0.006	0.004
	3771710		(\bigcirc)	0.125	0.000	0.004
			\supset			
			>			
		%)				
	(907					
	(7/0)					
<						
6						
	7					
1						

Zn 3.0mg/L	Pb 0.01mg/L	Hg 0.001mg/L	Mobile U 0.02mg/L	RA-226 0.5Bq/L	Gross alpha 0.1Bq/L	Gross beta 0.5Bq/L
dry	dry	dry	dry	dry	dry	dry
0.033	0.016	<0.0001	0.004	<0.03	<0.17	0.55
0.024	0.006	< 0.0001	0.001	0.14	0.11	0.27
0.021	0.002	< 0.0001	<0.001	0.05	<0.1	< 0.1
			n de soletino. Esperante de la composición			\mathcal{L}
dry	dry	dry	dry	dry	dry	dry
0.027	0.013	<0.0001	0.003	<0.06	0.66	0.59
0.018	0.008	< 0.0001	0.002	<0.06	0.19	0.3
0.319	0.094	< 0.0001	0.002	<0.06	<0.1/3	<0.1
0.016	0.003	<0.0001	< 0.001	<0.06	0.2	0.13
dry	dry	dry	dry	dry	dry	dry
0.007	< 0.001	< 0.0001	0.001		<0.1	0.19
0.017	0.004	< 0.0001	0.017		0.76	0.53
0.02	0.004	<0.0001	< 0.001		<0.11	0.1
0.015	0.002	< 0.0001	< 0.001		0.08	0.13
	e, un indingler, bein i. End eingelichendanete					
dry	dry	dry	dry	dry	dry	dry
0.076	0.022	<0.0001	0.005	<0.03	0.62	0.41
0.019	0.003	< 0.0001	0.012	0.06	<0.62	< 0.1
0.127	0.009	< 0.0001	<0.001	<0.03	< 0.11	0.11
0.014	0.01	< 0.0001	<0.001	0.03	<0.12	0.1
21 1				/	tj. N. daj Letak	
dry	dry	dry	dry	dry	dry	dry
0.034	0.005	< 0.0001	0.003	< 0.03	1.09	1.7
0.01	0.002	<0.0001	800,0	0.06	<0.55	<0.1
0.01	0.002	<0.0001	<0.001	<0.03	<0.09	0.11
0.016	0.001	<0.0001	<0.001	< 0.03	<0.08	<0.1
			1.4.5. 1.47.7			10 10 10 10 10 10 10 10 10 10 10 10 10 1
dry	dry	dry)>	dry	dry	dry	dry
0.006	0.002	<0.0001	0.003	0.07	<0.84	<0.1
0.089	0.038	<0.0001	0.005	0.07	<0.25	0.2
0.008	0.009	<0.0001	< 0.001	0.05	< 0.13	<0.1
0.038	0.004	<0.0001	<0.001	< 0.03	<0.28	0.17
	~~(0				1.	1 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1
dry	(dry/s)	dry	dry	dry	dry	dry
0.006	<0.001	<0.0001	0.003	0.03	< 0.41	< 0.1
< 0.005	<0.001	<0.0001	0.001	0.07	<1.32	<0.1
0.015	<0.001	<0.0001	<0.001	< 0.04	<0.13	0.15
0.032	0.003	<0.0001	<0.001	<0.03	0.37	0.56
	>			•		
dry	dry	dry	dry	dry	dry	dry
0.055	0.022	<0.0001	0.004	0.03	<0.38	0.87
0.016	0.01	<0.0001	0.004	<0.04	<0.6	<0.1
0.016	0.003	<0.0001	< 0.001	< 0.04	<0.11	<0.1
0.027	0.004	<0.0001	<0.001	<0.04	0.84	0.32

					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
dry	dry	dry	dry	dry	dry	dry
0.026	0.009	<0.0001	0.004	0.04	< 0.3	0.25
0.006	0.001	<0.0001	0.003	0.08	1.74	1.07
0.016	0.001	< 0.0001	< 0.001	0.04	<0.05	< 0.01
0.047	0.004	< 0.0001	< 0.001	< 0.04	0.26	0.46
dry	dry	dry	dry	dry	dry	\dry_
0.094	0.002	< 0.0001	0.001	0.13	< 0.19	0.22
< 0.005	0.002	< 0.0001	0.01	0.09	0.91	0.46
0.008	0.004	< 0.0001	< 0.001	0.1	<0.05	0.15
0.022	0.007	< 0.0001	0.002	< 0.06	0.13	0.12
*.						
dry	dry	dry	dry	dry	(dry)	dry
0.012	0.004	< 0.0001	<0.001	< 0.03	1.17	0.4
0.077	0.05	< 0.0001	0.002	< 0.03	0.13	0.84
0.02	0.004	< 0.0001	< 0.001	<0.03	<0.09	< 0.1
0.016	0.004	<0.0001	<0.001	0.06	<0.05	0.11
	(x_1, \dots, x_{n-1})					
0.03	0.016	< 0.0001	0.003	ugh water fo	r sample	
<0.005	< 0.001	< 0.0001	0.002	<0.03	<0.05	< 0.1
0.014	0.002	< 0.0001	0.001	0.05	0.08	0.3
0.024	0.008	<0.0001	< 0.001	0.03	< 0.05	< 0.1
0.01	0.003	< 0.0001	<0.001	0.04	<0.05	< 0.1
			\sim (\circ	(5)		
dry	dry	dry	dry	dry	dry	dry
0.053	0.025	<0.0001	0.003	0.03	<0.05	0.27
0.006	0.001	< 0.0001	0.001	< 0.03	<0.18	0.1
0.026	0.016	<0.0001	<0.001	0.03	< 0.05	< 0.1
0.031	0.009	<0.0001	<0.001	< 0.03	0.16	0.19
dry	dry	dry	dry	dry	dry	dry
0.028	0.015	<0.0001	0.002	0.05	0.07	0.24
0.008	< 0.001	<0.0001	< 0.001	0.05	<0.08	<0.1
0.024	0.006	<0.0001	< 0.001	< 0.03	< 0.05	<0.1
0.038	0.005	<0.0001	<0.001	0.04	< 0.13	0.15
	(91) >				
dry	dry	dry	dry	dry	dry	dry
<0.005	<0.001	<0.0001	0.001	,	,	
0.009	0,001	< 0.0001	0.001			
0.016	0.005	< 0.0001	< 0.001			
0.023	0.008	< 0.0001	0.001			
					-	
dry	dry	dry	dry	dry	dry	dry
0.009	0.007	<0.0001	<0.001	<0.04	<0.10	0.3
0.012	0.007	< 0.0001	< 0.001	0.05	<0.19	0.31
0.009	0.004	< 0.0001	< 0.001	< 0.03	<0.05	<0.10
0.021	0.006	< 0.0001	0.002	<0.04	<0.06	0.11
	2.000		0.002		.0.00	

dry	dry	dry	dry	dry	dry	dry
0.014	< 0.001	< 0.0001	< 0.001	0.05	<0.18	<0.1
0.153	0.08	<0.0001	0.012	0.08	0.85	0.8
0.074	0.035	<0.0001	0.005	0.04	<0.08	0.2
0.014	0.004	<0.0001	0.002	<0.03	0.17	0.12
						(())
dry	dry	dry	dry	dry	dry	dry
0.049	0.028	<0.0001	0.006	0.06	<0.42	<0.1
0.276	0.679	<0.0001	0.038	* insuffi	cient water to	sample
0.839	0.033	<0.0001	0.004	0.32	<0.13	0.43
0.008	< 0.001	<0.0001	< 0.001	0.07	<0.05	<0.1
dry	dry	dry	dry	dry	dry	dry
0.028	0.003	<0.0001	< 0.001	<0.03	<1.43	< 0.1
0.157	0.134	<0.0001	0.019	* insuffic	cient water to	sample
0.037	0.005	<0.0001	< 0.001	0.03	<0.05	<0.1
0.629	0.039	< 0.0001	0.004	0.13	0.27	0.58
				\sim		
dry	dry	dry	dry	dry	dry	dry
0.017	0.006	<0.0001	< 0.001	0.32	<0.11	0.15
0.329	0.103	0.0001	0.011	0.18	0.36	0.75
0.059	0.004	<0.0001	<0.001	0.09	<0.05	< 0.1
2.69	0.239	<0.0001	0.018	0.78	0.45	1.03
				有特別的		
dry	dry	dry	(dry)	dry	dry	dry
0.018	0.006	<0.0001	0.001	<0.03	0.49	0.44
1.73	0.161	<0.0001	0.015	0.23	1.3	1.48
0.027	0.007	<0.0001	<0.001	0.03	<0.05	<0.10
4.1	0.353	<0.0001	0.026	0.27	1.02	1.12
dry	dry	dry	dry	dry	dry	dry
0.014	0.001	<0.0001	<0.001	<0.03	<0.90	<0.10
<0.005	0.006	<0.0001	0.009			
0.036	0.005	<0.0001	< 0.001	<0.03	<0.05	<0.10
0.027	0.006	<0.0001	<0.001	<0.03	0.2	0.25
		万				
dry	dry	dry	dry	dry	dry	dry
0.063	0.02	<0.0001	0.003	0.04	<0.25	0.24
0.614	0.279	<0.0001	0.055			
0.018	0.01	<0.0001	<0.001	<0.03	<0.05	0.1
2.41	0.199	<0.0001	0.009			
	> 1.11					
dry	dry	dry	dry	dry	dry	dry
0.023	0.009	<0.0001	0.016	0.06	0.84	0.24
0.452	0.232	<0.0001	0.045			
0.015	0.003	<0.0001	<0.001	<0.03	<0.05	<0.10
11.3	0.981	<0.0005	0.067			

				era	法裁判 化氯化	C. 5	÷
dry	dry	dry	dry	dry	dry	dry	
0.019	0.002	<0.0001	0.007	0.03	2.43	0.12	
dry	dry	dry	dry	dry	dry	dry	
0.011	< 0.001	< 0.0001	< 0.001	<0.03	< 0.05	< 0.10	
dry	dry	dry	dry	dry	dry	dry	
dry	dry	dry	dry	dry	dry	dry	
0.258	0.072	<0.0001	0.004				
dry	dry	dry	dry	dry	dry 🗸	dry	
0.013	0.002	<0.0001	<0.001		/7		
dry	dry	dry	dry	dry	dry	dry	
. •						\checkmark	
0.059	0.013	<0.0001	0.002	0.06	<0.42	<0.83	
0.087	0.026	<0.0001	0.003	0.1	<0.25	<0.5	
0.014	0.005	<0.0001	<0.001	<0.05	<0.05	0.17	
0.037	0.009	<0.0001	< 0.001	<0.05	<0.07	<0.14	
		•			>		
0.027	0.009	<0.0001	0.002				
0.027	0.009	<0.0001	0.002				
0.018	0.010	<0.0001	<0.002	\rightarrow			
0.018	0.008	<0.0001	<0.001				
0.010	0.000	\0.0001	(0.003	3)~			
0.719	0.455	<0.0001	0.055	no result	1.32	6.53	
0.061	0.006	< 0.0001	<0.001	<0.05	<0.05	<0.10	
0.027	0.005	<0.0001	<0.001	< 0.05	0.05	< 0.10	
) P				
1.31	0.053	<0.0001	0.003	0.26	0.3	0.35	
0.049	0.007	<0.0001	<0.001	<0.05	0.07	<0.1	
0.025	2 226	.0.0004	0.000	.0.05	0.45.0.003	0.05	
0.025	0.006	<0.0001	0.002	<0.05	0.15±0.027	0.25	
4.9	0.175	<0.0001	0.008	0.68±0.005	27.4±1.37	20 441 61	
0.038	0.005	<0.0001	< 0.001	<0.05	<0.05	29.4±1.61 0.1	
0.030	(7/1)	<0.0001	<0.001	<0.05	<0.03	0.1	
0.034	0.003	<0.0001	<0.001	0.13	0.17	0.18	
2.23	> 5.005	.0.0001	.0.002	5,25	J. 1.	0.20	
0.068	0.004	<0.0001	<0.001	0.06	0.06	<0.1	

0.056	0.018	<0.001	0.003	<0.05	0.14	0.11
1.51 0.042	0.145 0.021	<0.001 <0.001	0.009 <0.001	0.15 <0.05	3.9 0.07	4.59 <0.1
0.162	0.048	<0.0001	0.001	<0.05	0.06±0.018	<0.1
0.027	0.002	<0.0001	<0.001	<0.03	0.05	<0.10
0.02	0.004	<0.0001	0.004	<0.05	0.18 +/- 0.03	0.27 +/-0.09
7.22	0.233	<0.0001	0.003	<0.05	<0.05	0.14+/-0.07
0.241	0.113	0.241	0.017	0.11 ±0.019	0.57 ±0.052	0.26 ±0.09
0.297	0.034	<0.0001	<0.001	<i>(</i> 0.05	0.28 ±0.036	0.28 ±0.08
			>> \			
	90)					

Sompile Somp	Date	Site	рH	TDS	As	Cu	Мо	Zn	Pb	Hg	Mobile U	RA-226	Gross aipha	Gross beta
22/12/2010 8LSP DS1 dry				500mg/L	0.007mg/L	1.0mg/L	0.05mg/L	3.0mg/L	0.01mg/L	0.001mg/L	0.02mg/L	0.5Bq/L		
BLSP DS2	22/12/2010		dry	dry	dry	dry	dry	dry	dry	dry	dry	dry		
SWM16				604	0.015	0.013	0.001	0.033	0.016	<0.0001	0.004	<0.03		•
SWM6 722 0.009 0.002 0.001 0.001 0.001 0.001 0.001 0.05 0.01 0.01				250	0.01	0.004	0.001	0.024	0.006	< 0.0001	0.001	0.14	/ \ \	
29/01/2011 BL SP DS1		GWM6		722	0.009	0.002	<0.001	0.021	0.002	< 0.0001	<0.001	0.05	<0.1	
29/01/2011 BLSP DS1 dry												/////		
BL SP DS2 7.46 504 0.036 0.004 0.018 0.008 0.0001 0.002 0.06 0.19 0.3 GWM6 7.27 740 0.038 0.02 0.319 0.094 0.0001 0.002 0.06 0.13 0.13 0.13 0.004 0.001 0.002 0.06 0.13 0.13 0.13 0.004 0.001 0.002 0.06 0.13 0.13 0.13 0.004 0.001 0.002 0.06 0.001 0.002 0.06 0.13 0.13 0.13 0.14 0.15 0.001 0	29/01/2011					dry	dry	dry		dry	dry	dry	dry	dry
GWM6 7.27 740 0.038 0.02 0.319 0.094 <0.001 0.002 <0.06 <0.13 <0.1 GWM16 7.49 135 0.009 0.002 0.016 0.003 <0.0001 0.002 <0.06 0.2 0.13 11/03/2011 BL SP DS1 dry						0.006		0.027	0.013	< 0.0001	0.003	<0.06	0.66	0.59
GWM16 7.49 135 0.009 0.002 0.016 0.003 <0.0001 0.002 <0.06 <0.13 <0.1 11/03/2011 BL SP DS1 dry dry		BL SP DS2		504	0.036	0.004		0.018	0.008	<0.0001	0.002	<0.06	0.19	0.3
SWM16				740	0.038	0.02		0.319	0.094	<0.0001	0.002	<0.06	<0.13	
11/03/2011 BL SP DS1 dry		GWM16	7.49	135	0.009	0.002		0.016	0.003	< 0.0001	<0.001	< 0.06	0.2	
11/03/2011 BL SP DS1 dry													•	
BL SP US 7.98 3020 0.002 0.006 <0.001 0.017 0.004 <0.0001 0.017 0.76 0.53 GWM6 8.19 759 0.014 0.003 <0.001 0.02 0.004 <0.0001 <0.001 <0.001 <0.011 0.1 GWM16 7.43 136 0.01 <0.001 <0.001 <0.001 0.025 0.002 <0.0001 <0.001 <0.001 BL SP DS1 dry dry dry dry dry dry 0.001 0.015 0.022 <0.0001 0.005 <0.03 0.62 0.41 BL SP US 7.33 3920 0.006 0.002 <0.001 0.019 0.003 <0.0001 0.012 0.06 <0.62 <0.1 GWM6 7.12 190 0.017 0.002 0.001 0.014 0.01 0.01 GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.001 <0.0001 <0.001 <0.001 <0.003 <0.11 0.11 GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.0001 <0.0001 <0.003 <0.001 0.03 <0.012 26/05/2011 BL SP DS1 dry	11/03/2011	BL SP DS1	dry	dry		dry	dry	dry	dry	dry	dry	dry	dry	dry
GWM6 8.19 759 0.014 0.003 <0.001 0.02 6.004 <0.0001 <0.001 <0.001 0.08 0.13 30/04/2011 BL SP DS1 dry		BL SP DS2			0.02	0.001	< 0.001	0.007	<0.001	<0.0001	0.001		<0.1	0.19
GWM16 7.43 136 0.01 <0.001					0.002	0.006	<0.001	0.017	0.004	<0.0001	0.017		0.76	0.53
30/04/2011 BL SP DS1 dry			8.19	759	0.014	0.003	< 0.001	0.02	6.904	<0.0001	< 0.001		< 0.11	0.1
BL SP DS2 7.44 832 0.013 0.011 <0.001 0.076 0.022 <0.0001 0.005 <0.03 0.62 0.41 BL SP US 7.33 3920 0.006 0.002 <0.001 0.019 0.003 <0.0001 0.012 0.06 <0.62 <0.1 GWM6 7.12 190 0.017 0.002 0.01 0.127 0.009 <0.0001 <0.001 <0.001 <0.03 <0.11 0.11 GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.0001 <0.001 <0.001 <0.03 <0.12 0.1 0.11 GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.0001 <0.0001 <0.001 0.03 <0.12 0.1 0.1 0.11 GWM16 7.85 7.19 1030 0.036 0.005 <0.001 0.034 0.005 <0.0001 0.003 <0.03 1.09 1.7 GWM16 7.83 702 0.01 0.002 <0.001 0.01 0.002 <0.001 0.001 0.002 <0.0001 0.008 0.06 <0.55 <0.1 GWM16 7.83 702 0.01 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.003 <0.003 <0.03 <0.09 0.11 GWM16 7.15 201 0.027 0.001 0.002 0.016 0.001 <0.001 <0.0001 <0.001 <0.003 <0.003 <0.03 <0.08 <0.1		GWM16	7.43	136	0.01	<0.001	< 0.001	0.015	0.002	< 0.0001	<0.001		0.08	0.13
BL SP DS2 7.44 832 0.013 0.011 <0.001 0.076 0.022 <0.0001 0.005 <0.03 0.62 0.41 BL SP US 7.33 3920 0.006 0.002 <0.001 0.019 0.003 <0.0001 0.012 0.06 <0.62 <0.1 GWM6 7.12 190 0.017 0.002 0.01 0.127 0.009 <0.0001 <0.001 <0.003 <0.011 0.11 GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.0001 <0.001 <0.003 <0.011 0.11 0.11 GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.0001 <0.001 0.03 <0.12 0.1 0.11 0.11 0.11 0.11 0.11 0.11 0								- ('(
BL SP US 7.33 3920 0.006 0.002 <0.001 0.019 0.003 <0.0001 0.012 0.06 <0.62 <0.1 GWM6 7.12 190 0.017 0.002 0.001 0.127 0.009 <0.0001 <0.001 <0.001 <0.003 <0.11 0.11 GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.0001 <0.001 0.03 <0.12 0.1 26/05/2011 BL SP DS1 dry	30/04/2011		dry	dry		dry	dry	grA	dry	dry	dry	dry	dry	dry
GWM6 7.12 190 0.017 0.002 0.001 0.127 0.009 <0.0001 <0.001 <0.003 <0.11 0.11 GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.0001 <0.0001 <0.001 <0.003 <0.12 0.1 0.1 0.1 0.002			7.44			0.011	<0.001		0.022	<0.0001	0.005	<0.03	0.62	0.41
GWM16 7.85 760 0.01 0.002 <0.001 0.014 0.01 <0.0001 <0.001 0.03 <0.12 0.11 26/05/2011 BL SP DS1 dry			7.33					0.019	0.003	<0.0001	0.012	0.06	<0.62	<0.1
26/05/2011 BL SP DS1 dry						0.002	0.001	0.127	0.009	<0.0001	< 0.001	< 0.03	< 0.11	0.11
26/05/2011 BL SP DS1 dry		GWM16	7.85	760	0.01	0.002	<0.001	0.014	0.01	<0.0001	< 0.001	0.03	<0.12	0.1
26/05/2011 BL SP DS1 dry		janta. Santas								2				
BL SP DS2 7.19 1030 0.036 0.005 <0.001 0.034 0.005 <0.0001 0.003 <0.003 1.09 1.7 BL SP US 7.12 4160 0.006 0.002 <0.001 0.01 0.002 <0.0001 0.008 0.06 <0.55 <0.1 GWM6 7.83 702 0.01 <0.001 <0.001 0.001 0.002 <0.0001 <0.001 <0.001 <0.001 <0.001 GWM16 7.15 201 0.027 0.001 0.002 0.016 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.	26/05/2011		dry	dry	dry	giv	dry	dry	dry		dry	dry	dry	dry
GWM6 7.83 702 0.01 <0.001 0.01 0.002 <0.0001 <0.001 <0.003 <0.09 0.11 GWM16 7.15 201 0.027 0.001 0.002 0.016 0.001 <0.0001 <0.0001 <0.001 <0.003 <0.08 <0.1 31/08/2011 BL SP DS1 dry		BL SP DS2	7.19			0.005	< 0.001	0.034	0.005	<0.0001	0.003	< 0.03	1.09	
GWM16 7.15 201 0.027 0.001 0.002 0.016 0.001 <0.0001 <0.001 <0.003 <0.08 <0.1 31/08/2011 BL SP DS1 dry						0.002	<0.001	0.01	0.002	<0.0001	0.008	0.06	<0.55	<0.1
31/08/2011 BL SP DS1 dry				702		<0.001	<0.001	0.01	0.002	< 0.0001	< 0.001	< 0.03	< 0.09	0.11
31/08/2011 BL SP DS1 dry		GWM16	7.15	201	0.027	0.001	0.002	0.016	0.001	< 0.0001	< 0.001	< 0.03	<0.08	<0.1
ni an nee				(0)									•	
BL SP DS2 \ 4300 0.01 0.002 <0.001 0.006 0.002 <0.0001 0.003 0.07 <0.84 <0.1	31/08/2011		dry	dry		dry	dry	dry	dry	dry	dry	dry	dry	dry
			//(0	< / /			<0.001	0.006	0.002	<0.0001	0.003	0.07	< 0.84	<0.1
BL SP US 1160 0.056 0.02 <0.001 0.089 0.038 <0.0001 0.005 0.07 <0.25 0.2							<0.001	0.089	0.038	<0.0001	0.005	0.07	<0.25	0.2
GWM6 751 0.01 0.003 <0.001 0.008 0.009 <0.0001 <0.001 0.05 <0.13 <0.1						0.003	<0.001	800.0	0.009	<0.0001	<0.001	0.05	< 0.13	<0.1
GWM16 438 0.034 0.004 0.004 0.038 0.004 <0.0001 <0.001 <0.03 <0.28 0.17		GWM16		438	0.034	0.004	0.004	0.038	0.004	<0.0001	<0.001	< 0.03	<0.28	0.17
			>				•	:		* * * * * * * * * * * * * * * * * * *				• •
30/09/2011 BL SP DS dry	30/09/2011	~	•			•	dry	dry	dry	dry	dry	dry	dry	dry
BL SP DS2 7.21 1110 0.004 0.001 <0.001 0.006 <0.001 <0.0001 0.003 0.03 <0.41 <0.1		BL SP DS2	7.21	1110			<0.001	0.006	< 0.001	<0.0001	0.003	0.03	< 0.41	
BL SP US 7.04 4440 0.028 <0.001 0.001 <0.005 <0.001 <0.0001 0.001 0.001 0.07 <1.32 <0.1		BL SP US	7.04	4440	0.028	<0.001	0.001	<0.005	<0.001	<0.0001	0.001	0.07	<1.32	<0.1

	GWM6	7.54	729	0.012	0.001	<0.001	0.015	<0.001	<0.0001	<0.001	<0.04	<0.13	0.15
	GWM16	7.37	522	0.031	0.002	0.004	0.032	0.003	<0.0001	<0.001	<0.03	0.37	0.56
23/10/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
20, 10, 2011	BL SP DS2	7	1200	0.053	0.012	<0.001	0.055	0.022	<0.0001	0.004	0.03	<0.38	0.87
	BL SP US	7.13	4660	0.009	0.008	<0.001	0.016	0.01	<0.0001	0.004	<0.04	<0.6	<0.1
	GWM6	7.67	757	0.014	0.002	<0.001	0.016	0.003	<0.0001	<0.001	<0.04	0.11	<0.1
	GWM16	7.26	559	0.025	0.003	0.003	0.027	0.004	<0.0001	<0.001	<0.04	0.84	0.32
12/11/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
12/11/2011	BL SP DS2	7.37	1290	0.062	0.006	<0.001	0.026	0.009	<0.0001	0,004	0.04	<0.3	0.25
	BL SP US	7.27	4430	0.01	0.002	<0.001	0.006	0.001	<0.0001	0.003	0.04	1.74	1.07
•	GWM6	7.75	815	0.018	0.002	<0.001	0.016	0.001	<0.0001	<0.001	0.03	<0.05	<0.01
	GWM16	7.44	706	0.025	0.003	0.003	0.047	0.004	<0.0001	<0.001	<0.04	0.26	0.46
a (a. (a. a.													
6/01/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.65	1410	0.056	0.006	0.001	0.094	0.002	<0.0001	0.001	0.13	<0.19	0.22
	BL SP US	7.43	5080	0.007	0.002	<0.001	<0.005	0.002	<0.0001	0.01	0.09	0.91	0.46
	GWM6 GWM16	8.04 7.36	798 529	0.015 0.022	0.002 0.004	<0.001 0.002	0.008 0.022	0.004 0.007	<0.0001 <0.0001	<0.001 0.002	0.1 <0.06	<0.05 0.13	0.15 0.12
	GANIATO	7.30	J25	0.022	0.004	0.002	(0,622)	0.007	<0.0001	0.002	\0.06	0.12	0.12
16/02/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.65	290	0.018	0.002	0.001	0.012	0.004	<0.0001	< 0.001	< 0.03	1.17	0.4
	BL SP US	7.37	776	0.006	0.026	<0.001	0.077	0.05	<0.0001	0.002	<0.03	0.13	0.84
	GWM6	8.09	798	0.014	0.002	<0.001	0.02	0.004	<0.0001	< 0.001	<0.03	<0.09	<0.1
	GWM16	7.08	240	0.011	0.002	<0.001	0.016	0.004	<0.0001	<0.001	0.06	<0.05	0.11
20/04/2012	BL SP DS1	7.31	1230	0.006	0.009	<0.001	0.03	0.016	<0.0001	0.003	ugh water fo	r sample	**
	BL SP DS2	7.34	550	0,094	< 0.001	< 0.001	< 0.005	<0.001	< 0.0001	0.002	<0.03	<0.05	< 0.1
	BL SP US	7.28	1260	0.003	< 0.001	< 0.001	0.014	0.002	< 0.0001	0.001	0.05	0.08	0.3
	GWM6	7.92	830	0.008	<0.001	<0.001	0.024	0.008	< 0.0001	< 0.001	0.03	<0.05	< 0.1
	GWM16	7.22	214	0.015	<0.001	0.001	0.01	0.003	<0.0001	<0.001	0.04	<0.05	<0.1
17/05/2012	BL SP DS1	dry	dry	dry	dry	đry	dry	dry	dry	dry	dry	dry	dry
1,,00,2012	BL SP DS2	7.18	692	0.023	0.012	<0.001	0.053	0.025	<0.0001	0.003	0.03	<0.05	0.27
	BL SR US	7.15	1520	0.023	< 0.001	<0.001	0.006	0.001	<0.0001	0.001	<0.03	<0.18	0.1
	GWM6	7.94	814	0.012	0.003	0.002	0.026	0.016	<0.0001	<0.001	0.03	<0.05	<0.1
	GWM16	7.18	352	0.028	0.004	0.002	0.031	0.009	<0.0001	<0.001	<0.03	0.16	0.19
30/06/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	an an pendapa manggantapa	der	dry	de.	dn.	dry
30/00/2012	DE DE DOT	uiy	ui y	uiy	uiy	ui y	ury	dry	dry	ury	dry	dry	ury

	BL SP DS2	7.59	910	0.027	0.008	<0.001	0.028	0.015	<0.0001	0.002	0.05	0.07	0.24
	BL SP US	7.54	1670	0.007	< 0.001	<0.001	0.008	< 0.001	< 0.0001	<0.001	0.05	<0.08	<0.1
	GWM6	8.3	830	0.007	0.003	0.001	0.024	0.006	<0.0001	<0.001	< 0.03	<0.05	<0.1
i i	GWM16	7.69	620	0.025	0.004	0.003	0.038	0.005	< 0.0001	< 0.001	0.04	<0.13	0.15
												<i>)</i>	
26/07/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry/	dry	dry
	BL SP DS2	7.34	421	0.018	< 0.001	< 0.001	<0.005	< 0.001	<0.0001	0.001			
	BL SP US	7.15	1720	0.009	0.001	< 0.001	0.009	0.001	<0.0001	0.001	1//4/17		
	GWM6	7.77	761	0.008	0.001	< 0.001	0.016	0.005	<0.0001	<0.001			
	GWM16	6.94	465	0.014	0.001	0.002	0.023	0.008	<0.0001	0.001			
													for Herry fr
19/09/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.33	1040	0.017	0.003	< 0.001	0.009	0.007	<0.0001	<0.001	< 0.04	< 0.10	0.3
	BL SP US	7.18	2220	0.004	0.004	< 0.001	0.012	0.007	<0.0001	< 0.001	0.05	<0.19	0.31
	GWM 6	7.63	783	800.0	<0.001	< 0.001	0.009	0.604	<0.0001	< 0.001	< 0.03	<0.05	<0.10
	GWM 16	7.02	561	0.017	0.006	0.002	0.021	0.006	<0.0001	0.002	< 0.04	<0.06	0.11
31/10/2012	BL SP DS1		dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2		1100	0.067	0.001	0.002	0.014	< 0.001	<0.0001	< 0.001	0.05	<0.18	<0.1
	BL SP US		1880	0.008	0.041	<0.061	0.153	0.08	< 0.0001	0.012	0.08	0.85	8.0
	GWM6		1220	0.016	0.018	<0.001	0,074	0.035	<0.0001	0.005	0.04	<0.08	0.2
	GWM16		680	0.018	0.004	0.002	0.014	0.004	< 0.0001	0.002	<0.03	0.17	0.12
		· .											14 14 15 15 15 15 15 15 15 15 15 15 15 15 15
11/12/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.59	1150	0.069	0.011	<0.001	0.049	0.028	< 0.0001	0.006	0.06	<0.42	<0.1
	BL SP US	-	-	0.032	0.054	<0.001	0.276	0.679	< 0.0001	0.038	* insuffi	icient water to	
	GWM6	7.46	638	0.022	0.01	0.002	0.839	0.033	< 0.0001	0.004	0.32	< 0.13	0.43
	GWM16	7.93	774	0.008	<0.001	< 0.001	0.008	< 0.001	< 0.0001	< 0.001	0.07	< 0.05	<0.1
				>(1/2)									
15/01/2013	BL SP DS1	dry	dry (dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.44	1240	0.046	0.004	0.001	0.028	0.003	< 0.0001	< 0.001	< 0.03	<1.43	<0.1
	BL SP US	7.3	2000	0.011	0.019	< 0.001	0.157	0.134	< 0.0001	0.019	* insuffi	icient water t	o sample
	GWM6	7.97	774	0.007	0.002	< 0.001	0.037	0.005	< 0.0001	< 0.001	0.03	< 0.05	<0.1
	GWM16	7.34	1580	0.022	0.011	0.002	0.629	0.039	< 0.0001	0.004	0.13	0.27	0.58
											ya shiriyasa a		January ang Ka
22/02/2013	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	> 7.84	507	0.057	0.003	< 0.001	0.017	0.006	<0.0001	<0.001	0.32	<0.11	0.15
	BL SP US	7.04	568	0.014	0.055	0.002	0.329	0.103	0.0001	0.011	0.18	0.36	0.75
	GWM6	8.22	800	0.108	0.016	0.002	0.059	0.004	<0.0001	<0.001	0.09	<0.05	<0.1
	GWM16	6.7	3310	0.068	0.072	0.003	2.69	0.239	<0.0001	0.018	0.78	0.45	1.03

27/03/2013 BL SP DS1 dry	•
RISPINS 755 704 0.063 0.003 0.001 0.018 0.006 <0.0001 0.001 <0.03 0.	9 044
BESF D32 7.55 704 0.005 0.005 0.001 0.016 0.000 0.0001 0.001 0.005 0	0.77
BLSP US 7.46 2700 0.017 0.071 <0.001 1.73 0.161 <0.0001 0.015 0.23	1.48
GWM6 7.91 706 0.055 0.001 <0.001 0.027 0.007 <0.0001 <0.001 0.03	5 <0.10
GWM16 7.15 3820 0.099 0.117 0.003 4.1 0.353 <0.0001 0.026 0.27 1	2 1.12
30/04/2013 BL SP DS1 dry	, dry
BL SP DS2 7.53 995 0.015 0.002 <0.001 0.014 0.001 <0.0001 <0.001 <0.003 <0	-
BLSP US NT NT 0.003 0.002 <0.001 <0.005 0.006 <0.0001 0.009	70 \0.10
GWM6 7.98 731 0.021 0.003 <0.001 0.036 0.005 <0.0001 <0.001 <0.001 <0.003 <0.001	05 <0.10
GWM16 7.25 709 0.01 0.004 <0.001 0.027 0.006 <0.0001 <0.001 <0.03 0	
30/05/2013 BL SP DS1 dry	, dry
BL SP DS2 981 0.092 0.011 0.001 0.063 0.02 <0.0001 0.003 0.04 <0	25 0.24
BL SP US 1640 0.053 0.136 0.001 0.614 0.279 <0.0001 0.055	
GWM6 715 0.015 0.002 <0.001 0.018 0.01 <0.0001 <0.001 <0.003 <0	0.1
GWM16 5050 0.053 0.063 0.003 2.41 0.199 <0.0001 0.009	
25/06/2013 BL SP DS1 dry	/ dry
BL SP DS2 1090 0.085 0.002 0.003 0.023 0.009 <0.0001 0.016 0.06 0	·
BL SP US 0.043 0.106 <0.001 0.452 0.232 <0.0001 0.045	4 0.24
)5 <0.10
GWM16 12900 0.271 0.356 0.011 11.3 0.981 <0.0005 0.067	
23/07/2013 BL SP DS1 dry	y dry
BL SP DS2 1130 0.104 0.003 0.002 0.019 0.002 <0.0001 0.007 0.03 2	3 0.12
	y dry
	0.10
GWM16 dry	y dry
14/08/2013 BL SP DS1 dry	y dry
BL SP DS2 1080 0.107 0.014 0.002 0.258 0.072 <0.0001 0.004	,,
	y dry
GWM6 770 0.022 0.003 <0.001 0.013 0.002 <0.0001 <0.001	, u.,
	y dry
28/02/2014 BL SP DS1 Dry	
	42 <0.83
BL SP US 1220 0.007 0.02 <0.001 0.087 0.026 <0.0001 0.003 0.1 <	25 <0.5

	GWM16 GWM6		212 736	0.008 0.014	0.003 0.005	<0.001 <0.001	0.014 0.037	0.005 0.009	<0.0001 <0.0001	<0.001 <0.001	<0.05 <0.05	<0.05 <0.07	0.17 <0.14
22/04/2014	BL SP DS1	Dry											
	BL SP DS 2		931	0.051	0.009	<0.001	0.027	0.009	<0.0001	0.002) \	
	BL SP US		1880	0.007	0.018	<0.001	0.046	0.016	<0.0001	0.002	~ [1]		
	GWM16		120	0.011	0.003	<0.001	0.018	0.008	<0.0001	<0.001	$1/1/I_A$		
	GWM6		788	0.009	0.002	<0.001	0.018	0.008	<0.0001	<0.001	11/1/10		
10/07/2014	Di CD DC4									/ \ \ \ \ \	\. \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
10/07/2014	BL SP DS1	Dry	22.0										
	BL SP US		2940	0.026	0.29	<0.001	0.719	0.455	<0.0001	0.055	no result	1.32	6.53
	GWM16		448	0.019	0.005	0.002	0.061	0.006	<0.0001	<0.001	<0.05	<0.05	<0.10
	GWM6		699	0.01	0.004	<0.001	0.027	0.005	<0.0001	<0.001	<0.05	0.05	<0.10
22/00/2014	DI CD DC4												
23/09/2014	BL SP DS1	Dry											
	BL SP US	Dry	4.470	0.022	0.000	0.000)\\					
	GWM16 GWM6		1470	0.033	0.029	0.008	1.31	6.053	<0.0001	0.003	0.26	0.3	0.35
	GWIND		718	0.012	0.004	<0.001	0.049	0.007	<0.0001	<0.001	<0.05	0.07	<0.1
17/10/2014	BL SP DS1	D=-		****			\\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\						
17/10/2014	BL SP DS 2	Dry	1500	0.143	0.007	0.000		0.000					
	BL SP US	Day	1590	0.142	0.007	0.002	0.025	0.006	<0.0001	0.002	<0.05	0.15±0.027	0.25
	GWM16	Dry	1960	0.039	0.055		4.0	0.475	.0.004				
	GWM6		736	0.039	0.055	0.005	4.9	0.175	<0.0001	0.008	0.68±0.005	27.4±1.37	29.4±1.61
	OWIVIO		/50	0.012	0.009	<0.001	0.038	0.005	<0.0001	<0.001	<0.05	<0.05	0.1
12/10/2014	BL SP DS1	Dry											
12/10/2014	BL SP DS 2	Diy	1490	0.163	0.005	0.002	0.024	0.002	-0.0004	.0.004	0.40		
	BL SP US	Dry	1450	0.10.5	0.003	0.002	0.034	0.003	<0.0001	<0.001	0.13	0.17	0.18
	GWM16	Dry			~								
	GWM6	Diy	720	0.012	0.005	<0.001	0.068	0.004	40.0001	-0.001	0.00	2.25	
			720	0.612	0.005	<0.001	0.000	0.004	<0.0001	<0.001	0.06	0.06	<0.1
27/02/2015	BL SP DS1	Dry											
27,02,2010	BL SP DS 2	(0)	1800	0.134	0.008	0.002	0.056	0.018	<0.001	0.003	40.0E	0.4.4	0.44
	BL SP US	-Bry)	0.154	0.008	0.002	0.050	0.016	<0.001	0.003	<0.05	0.14	0.11
	GWM16	22//	3270	0.044	0.071	0.003	1.51	0.145	<0.001	0.009	0.15	2.0	4.50
	GWM6	(0)	749	0.007	0.004	<0.001	0.042	0.021	<0.001			3.9	4.59
			F 144	0.007	5.00-7	·0.001	U.U44	0.021	~0.001	<0.001	<0.05	0.07	<0.1
29/06/2015	BL SP DS1	Dry					.1.			***			
-,,	BL SP US	Dry								5			
	GWM16	Dry											
		1											

	GWM6		716	0.056	0.007	0.002	0.162	0.048	<0.0001	0.001	<0.05	0.06±0.018	<0.1
12/08/2015	BL SP DS1 BL SP US GWM16 GWM6	Dry Dry Dry	736	0.007	0.002	<0.001	0.027	0.002	<0.0001	<0.001	<0.03	<0.05	<0.10
15/10/2015	BL SP DS1 BL SP DS 2 BL SP US GWM16 GWM6	Dry 6.84 Dry Dry 6.64	1270 787	0.105	0.003	0.001	0.02 7.22	0.004	<0.0001	0.004 0.003	<0.05	0.18 +/- 0.03 <0.05	0.27 +/-0.09
18/12/2015	BL SP DS1 BL SP DS 2 BL SP US		2760	0.272	0.044	0.003	0.241	0.113	0.241	0.017		0.57 ±0.052	
	GWM16 GWM6		224	0.125	0.006	0.004	0.297	0.034	<0.0001	<0.001	<0.05	0.28 ±0.036	0.28 ±0.08

I essential agree with the assessment, but am uncertain whether all the contamination comes from surface tailings. Could a minor come from groundwater accessing underground workings, as air would probably penetrate these as well. However, I agree that there is no doubt that the contamination is derived from exposed ore.

Where do we go from here? Cattle, wildlife and people using creeks (especially Keelbottom Creek) could be affected. Keelbottom Creek should be regularly monitored. Similarly, the Burdekin River, for which Keelbottom Creek is a tributary, should be regularly monitored for radiation and relevant heavy metals in case contamination occurs subsequent to particular weather events.

Yours sincerely Mike Rubenach

(Dr Mike Rubenach, retired Senior lecturer, Geology, JCU)

6/8/2016

3/15/2018 Print

Subject: URGENT Ben Lomond pollution

From: David Sewell Sch 4 CTPI

To: mangocube6@yahoo.co.uk;

Sch 4 CTPI

Cc: Sch 4 CTPI bill@laingex.com

Date: Wednesday, 31 August 2016, 14:21

Hi Mark,

Here's the letter sent to you, Steven Miles and Andrew Lynam on 8/8/16. We have acknowledgement of the receipt of the emailed letter and we want to take further action, by making the situation known to the public, but would prefer a response from either or all of you before doing so.

Regards,

Dave Sewell

Attachments

- Letter to the Ministers 8:8:16 copy.docx (132.86 KB)
- Ben Lomond Receiving Water Monitoring Results -20160324
- Ben Lomond Groundwater Data -20150212 copy.xlsx (25.8)
- Laing Report-Ben Lomond Water Pollution-Final copy.pdf (10
- Mike Rubenach assesment.docx (75.12 KB)

8/08/2016

To:

The Honourable Dr Steven Miles MP Minister for Environment and Heritage Protection. and Minister for National Parks and the Great Barrier Reef
The Honourable Dr Andrew Lynam MP Minister for Natural Resources and Mines
The Honourable Mark Bailey MP Minister for Energy and Water Supply

Dear Ministers Miles, Lynam and Bailey

It is now over a year since the productive meeting between Citizens Against Mining Ben Lomond (CAMBL) and yourselves and staff at the 2015 Community Cabinet in Townsville. You reiterated your Government's policy of prohibiting uranium mining in Queensland, a policy which we applaud.

At that meeting we raised our principal concern - the capacity of the Ben Lomond site, already containing major surface and underground uranium mineralisation, to seriously pollute the local environment (mainly surface and subsurface water regimes), and the larger river watersheds of Keelbottom Creek and the downstream Burdekin River. We raised a series of questions around this issue, you accepted their validity, and you invited us to liaise with your Departments on, inter alia, the sampling regime in the leaseholder Uranium Mineral Ventures Incorporated's Environmental Authority EPML00418313 and related ML's 1399 and 1419.

We have since acquired the water sampling analyses of receiving water and groundwater, as taken by the leaseholder under the conditions of their Environmental Authority (EA) between December 2010 and December 2015. Laing Exploration Pty Ltd has assessed the analyses, and identified the

implications for the water regimes in the Ben Lomond watershed. The Laing Exploration Report is attached.

Each water regime shows major exceeding of the conditions, throughout the five years 2010-2015, in chemical elements critical to human health: alpha radiation, beta radiation, uranium, lead, and arsenic.

			Alpha radiation Be	<u>ta</u>
<u>radiation</u>	<u>Uranium</u>	<u>Lead</u>	<u>Arsenic</u>	
Number of	samples ove	er Limit	47%	16%
5%	25%	85%	\nearrow	
Highest con	ncentration ⁻	vs Limit	274	59
3.4	98	39		

The elemental levels constitute major breaches of the EA - in other words, major pollution. The Laing Report demonstrates that the polluted water regimes cannot be ascribed to anything other than the underground mineralisation brought to surface as ore dumps and associated rock material. Whilever the Ben Lomond surface dumps remain as they are, they will perpetuate the current polluted water regimes.

The consistent temporal linear concentrations over the five year sampling period, with the anomalous analyses spread throughout the period, indicate that the pollution was present before, and after, the sampling period; and they create the reasonable assumption that the pollution began at the time of the original mining and ore dump formation circa 1981, and will most likely be continuing to the present and into the future.

The Ben Lomond pollution is thus a major addition to the environment, in all three possible spaces; (1) geochemical (2) temporal, and (3) spatial:

- (1) It comprises major levels of harmful elements which exceed the EA conditions by orders of magnitude,
- (2) It has continued (and still continues) over probably the three decades of existence of the underground mine and the surface

ore dumps, and

(3) It is present along a significant length of local, and probably regional, streams which lead into the Burdekin River, the largest river in Queensland.

Minister Miles (letter 1 below) advised that your Government is changing the Environmental Authority for the Ben Lomond site. The changes "primarily relate to environmental monitoring" requirements and receiving water quality objectives, to ensure the site is managed in a manner that protects the environmental values of the area." We endorsed this approach in our meeting. While we applaud the recent chain of responsibility amendment to the Environment Act, recently passed in the Queensland Parliament by your government, we have since compared the two Ben Lomond EA's (2007 and 2015), and we are disappointed to see that little if anything has changed in the substantive conditions of the 2015 version of the EA. The geochemical conditions remain unchanged. It can be interpreted furthermore, that the 2015 conditions are broader than the earlier conditions: (2007 EA) "authorises exploration drilling does not authorise any mining, ore extraction or processing" whereas (2015 EA) "authorises exploration drilling does not authorise any mining, ore extraction or processing authorises large bulk sampling or constructing an exploratory shaft, adit or open pit". An open pit in particular would significantly increase the exposure of the orebody to the atmosphere and biosphere, from the current surface ore dumps.

The EA requires the leaseholder to conduct bi-monthly sampling of 'receiving waters affected by the release of process water or storm water contaminated by the mining activities, or both' and 'groundwater, affected by the mining activities' at specified locations, and report to the DEHP if specified levels are exceeded (our italics).

Three issues are raised by the current situation:

- 1. Given the major breach of the DEHP's prescribed standards in five elements harmful to human and animal health, what correction does DEHP plan:
- to the environment, damaged already;
- to the leaseholder, as penalties for major sustained pollution and as a deterrent to continued pollution?
- 2. Has the leaseholder reported the pollution to DEHP as prescribed in their EA? If they have, what has DEHP done in response, and if they have not, what measures do DEHP and DNRM plan to
- penalise the leaseholder,

Yours sincerely

- require them to cleanup and pay for the environmental pollution,
- force them into future compliance, or strip them of their noncompliant leases?
- 3. Have the Charters Towers, Burdekin and Townsville City Councils been notified of this major pollution in their riverine watersheds? If so, what advice has been given to them in regard to their water testing and consumption? We possess the results of water testing from Charters Towers which show inter alia, arsenic levels at 86% of the elemental limits in the Ben Lomond leaseholder's EA.

We look forward to your response. The Ben Lomond pollution being major, long-lived, and continuing, we expect a timely and detailed response to all components of our questions.

David Sewell	
Spokesperson for Citizens Against Minin	g Ben Lomond
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/R	

We attach also the written advice of Dr Michael Rubenach, retired Senior Lecturer, Department of Geology, James Cook University. Dr Rubenach has been involved technically with the Ben Lomond issue since the original Minatome mining and the Warden's Court hearing of 1981-82:

"I essentially agree with the Laing Exploration Report, but am uncertain whether all the contamination comes from surface tailings. A minor proportion could come from groundwater accessing underground workings, as air would probably penetrate these as well. However, I agree that there is no doubt that the contamination is derived from exposed ore. Where do we go from here? Cattle, wildlife and people using creeks (especially Keelbottom Creek) could be affected. Keelbottom Creek should be regularly monitored. Similarly, the Burdekin River, for which Keelbottom Creek is a tributary, should be regularly monitored for radiation and relevant heavy metals in case contamination occurs subsequent to particular weather events.

Yours sincerely Dr Mike Rubenach 6 August 2016"

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Ben Lomond Receiving Water Monitoring Results from 22 December 2010 to 18 December 2015

Environmental authority holder Environmental authority (EA) **Uranium Mineral Ventures Incorporated**

EPML00418313

EA Condition

C1-1

Data	C** .				_								
Date	Site	рН	TDS	As	Cu	Mo	Zn	Pb	Hg	Mobile U	RA-226	Gross alpha	Gross beta
EA Conditions		6.5-8.5		0.007mg/L	1.0mg/L		3.0mg/L		_	0.02mg/L	\0.5Bq/₽	0.1Bq/L	0.5Bq/L
22/12/2010	SMW22	*	121	0.004	0.001	0.003	<0.005	0.001	<0.0001	< 0.601	9.4	<0.06	<0.1
	SWM6	*	148	0.007	0.001	0.008	0.006	<0.001	<0.0001	€00.0	<0.03	0.06	0.12
	SWM23	*	114	0.003	<0.001	0.001	0.006	0.002	<0.0001	<0.001	<0.03	< 0.07	< 0.1
	KB2	*	88	<0.001	0.002	<0.001	0.017	<0.001	<0.0001	<0.001	0.03	< 0.07	0.11
	SWM24	*	204	0.014	0.002	<0.001	0.01	0.001	<0.0001	<0.001	< 0.03	<0.08	< 0.1
	SWM11	*	92	<0.001	0.001	<0.001	0.008	0.001	<0.0001	<0.001	<0.03	< 0.06	<0.1
	KB13	*	97	<0.001	<0.001	< 0.001	<0.005	<0.091	<0.0001	<0.001	0.03	< 0.06	<0.1
	KB3	*	105	0.001	0.006	<0.001	0.021	0.001	<0.0001	< 0.001	<0.04	< 0.07	<0.1
	SWM4	*	200	0.004	0.002	<0.001	0.024	0.002	< 0.0001	< 0.001	< 0.03	<0.08	0.12
		12.424	* * * * * *	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·		(9)				***		
29/01/2011	SWM4	7.58	292	0.004	< 0.001	*	0.02	<0.001	<0.0001	0.001	<0.06	<0.05	<0.1
	SWM24	7.57	314	0.039	< 0.001	*	<0.005	< 0.001	< 0.0001	< 0.001	<0.06	<0.05	<0.1
	SWM6	7.79	144	0.002	0.004	*	0.021	< 0.001	< 0.0001	<0.001	<0.06	0.05	<0.1
	SWM22	7.82	107	0.009	<0.001		0.006	< 0.001	<0.0001	0.005	<0.06	<0.05	<0.1
	SWM11	7.75	58	<0.001	<0.001	*	<0.005	< 0.001	< 0.0001	< 0.001	<0.06	0.06	<0.1
	SWM23	7.21	100	0.003	0.001	*	0.013	0.002	< 0.0001	< 0.001	< 0.06	<0.07	0.14
	KB2	7.28	69	<0.001	0.005	*	0.012	0.008	<0.0001	<0.001	<0.06	< 0.05	<0.1
	KB13	7.37	69	<0.002	< 0.001	*	<0.005	< 0.001	<0.0001	<0.001	< 0.06	<0.05	<0.1
	KB3	7.31	86	0.001	< 0.001	*	< 0.005	< 0.001	< 0.0001	< 0.001	< 0.06	<0.05	<0.1
		A . C	100		* **					100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
11/03/2011	SWM24	7.75	175	0.02	< 0.001	< 0.001	<0.005	<0.001	<0.0001	<0.001	*	<0.05	<0.1
	SWM22	7.37	71	0.013	0.006	0.003	0.099	0.012	< 0.0001	0.006	*	0.79	0.37
	SWM11	6,79	55	<0.001	0.005	< 0.001	0.022	0.012	< 0.0001	0.002	*	<0.07	0.19
	SWM4	7.84	189	0.008	<0.001	0.01	0.008	< 0.001	<0.0001	0.006	*	<0.05	<0.1
	SWM23	7.45	122	< 0.001	< 0.001	0.001	< 0.005	< 0.001	<0.0001	<0.001	*	<0.05	<0.1
	KB3	7.48	116	< 0.001	0.005	< 0.001	0.024	< 0.001	<0.0001	<0.001	*	<0.05	<0.1
	KB13	7.46	74	< 0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	*	<0.05	<0.1
							_	·				10.03	70.1

	SWM6	*	*	*	*	*	*	*	*	*	*	*	*
	KB2	*	*	*	*	*	*	*	* Na poprava karanca n	*	*	* General experiences	*
							0.005	(10.000 (10.000)	-0.004				
30/04/2011	SMW22	7.8	98	0.002	<0.001	<0.001	<0.005	<0.001	<0.0001	0.002	<0.03	<0.08	<0.1
	SWM6	8	304	0.004	<0.001	0.011	<0.005	<0.001	<0.0001	0.025	0.03	0.19	<0.1
	SWM23	7.23	98	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	7.67 *	89 *	<0.001 *	<0.001 *	<0.001 *	<0.005 *	<0.001 *	<0.0001 *	<0.001	<0.03	<0.05 *	<0.1 *
	SWM24									10 000	1000		
	SWM11	7.67 7.72	94	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001)) <0.63 *	<0.05	<0.1
	KB13 KB3	1.72 *	101 *	<0.001 *	<0.001 *	<0.001 *	<0.005 *	<0.001 *	<0.0001	<0.001	*	<0.05 *	<0.1 *
	SWM4	7.84	372	<0.001	0.002	0.004	0.008	0.001	<0.0001	0.003	0.04	<0.06	<0.1
	34414	7.04	3/2 148124	<0.001	0.002	0.004	0.008	0.001	C0.0001	0.005 V	0.04	~0.06	70.I
26/05/2011	SMW22	7.88	504	0.003	0.001	0.007	0.007	<0.001	<0.0001	0.011	<0.03	0.21	<0.1
20,00,2011	SWM6	8.01	452	0.003	<0.001	0.016	<0.005	<0.001	<0.0001	0.049	0.05	0.73	<0.1
	SWM23	7.37	102	<0.001	< 0.001	< 0.001	<0.005	₹0.001	<0.0001	< 0.001	<0.03	<0.05	<0.1
	KB2	7.76	115	<0.001	< 0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	<0.05	<0.1
	SWM24	7.88	218	0.014	< 0.001	< 0.001	<0.005	<0.001	< 0.0001	0.001	< 0.04	<0.08	0.1
	SWM11	7.61	97	< 0.001	< 0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.1
	KB13	7.68	112	< 0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.1
	KB3	7.94	218	< 0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	< 0.001	*	*	*
	SWM4	8.1	1090	0.004	0.001	<0.001	<0.005	0.001	<0.0001	0.007	<0.03	<0.16	<0.1
					7//			14-41-14-15					
31/08/2011	SMW22	*	926	0.028	0.002	0.044	<0.005	<0.001	<0.0001	0.046	0.13	<0.28	0.11
	SWM6	*	447	0.064	<0.001	0.04	<0.005	<0.001	<0.0001	0.104	0.06	3.3	0.49
	SWM23	*	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	KB2	*	114	<9.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.04	<0.07	<0.1
	SWM24	* (284	0.044	<0.001	0.001	<0.005	< 0.001	<0.0001	0.002	0.08	<0.09	<0.1
	SWM11	*//	120	< 0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	< 0.001	< 0.03	<0.06	<0.1
	KB13		109	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.06	<0.1
	KB3	*	351	< 0.001	0.002	<0.001	0.019	0.002	<0.0001	0.002	0.05	<0.07	<0.1
	SWM4	*	1380	0.007	0.002	0.001	<0.005	0.002	<0.0001	0.025	<0.05	0.79	<0.1
						*** *.						este d'avecta d'Alexandra Alexandra (1965) Option de la company de la Option de la company de la	
30/09/2011	SMW22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	7.95	1380	0.01	< 0.001	0.001	<0.005	< 0.001	<0.0001	0.018	<0.03	0.39	<0.1

	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	KB2	7. 9 5	155	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	0.03	<0.05	<0.1
	SWM24	7.86	282	0.011	<0.001	0.001	<0.005	<0.001	<0.0001	0.002	<0.03	<0.07	<0.1
	SWM11	7.86	156	< 0.001	< 0.001	< 0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB13	7.24	147	<0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB3	7.89	419	< 0.001	<0.001	0.001	<0.005	< 0.001	<0.0001	0.001	<0.03	<0.07	<0.1
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
											1/		A.J
23/10/2011	SMW22	7.49	892	0.002	< 0.001	0.021	<0.005	<0.001	<0.0001	0.019	0.06	0.31	<0.1
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	KB2	7.89	155	< 0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.04	<0.05	<0.1
	SWM24	7.94	303	0.414	0.004	0.002	0.01	0.001	<0.0001	0.001	<0.03	<0.05	<0.1
	SWM11	7.67	164	< 0.001	<0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	<0.05	<0.1
	KB13	7.15	152	< 0.001	0.003	<0.001	0.008	<0,091	<0.0001	< 0.001	<0.04	<0.05	<0.1
	KB3	7.57	499	0.002	0.003	0.001	0.01	<0.001	<0.0001	0.001	0.07	<0.32	0.14
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	1,340,13		1.				(0)		n wife.	is alif			
12/11/2011	SMW22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry <	dry	dry	dry	dry	dry	dry	dry	dry
	KB2	7.99	191	0.001	0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	0.03	<0.05	<0.1
	SWM24	7.95	309	0.086	<0.001	0.001	<0.005	0.001	<0.0001	0.001	< 0.03	<0.05	< 0.1
	SWM11	7.85	199	0.001	0.001	<0.001	<0.005	< 0.001	<0.0001	< 0.001	< 0.03	< 0.05	<0.1
	KB13	7.45	176	0,001	0.009	<0.001	0.018	< 0.001	< 0.0001	< 0.001	0.07	<0.05	<0.1
	KB3	8.11	498	0.002	0.002	0.001	0.007	< 0.001	<0.0001	< 0.001	0.05	<0.05	< 0.1
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
		26	100°	> : ::: .		-234		estible	100 100 100		4.42	er er er er Herringer	
6/01/2012	SMW22	7.96	859	0.005	<0.001	0.019	<0.005	< 0.001	<0.0001	0.01	<0.07	0.2	<0.1
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	7 28	251	0.001	< 0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.04	< 0.05	0.18
	KB2	7.5	85	< 0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.06	0.82	< 0.1
	SWM24	8.08	338	0.019	0.002	0.001	0.024	<0.001	<0.0001	0.001	<0.08	< 0.05	0.14
	SWM11	7.39	105	<0.001	<0.001	<0.001	0.012	< 0.001	<0.0001	< 0.001	<0.06	<0.05	0.22
	KB13	7.54	100	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	< 0.06	< 0.05	< 0.1

	KB3	7.49	131	<0.001	0.006	<0.001	0.018	0.001	<0.0001	<0.001	<0.06	0.47	<0.1
	SWM4	8.23	986	0.011	0.002	0.002	0.006	<0.001	<0.0001	0.006	<0.06	<0.18	<0.1
16/02/2012	SMW22	7.81	266	0.002	< 0.001	0.008	<0.005	<0.001	<0.0001	0.002	0.04	<0.05	<0.1
	SWM6	8	290	0.008	<0.001	0.017	<0.005	<0.001	<0.0001	0.01	0.04	80.0>	<0.1
	SWM23	7.03	88	<0.001	< 0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	< 0.1
	KB2	7.26	108	< 0.001	0.001	<0.001	0.006	<0.001	<0.0001	<0.001	0.07	<0.05	<0.1
	SWM24	7.02	154	0.001	< 0.001	0.011	0.006	<0.001	< 0.0001	0.008	0.1	0.26	0.1
	SWM11	7.23	60	<0.001	<0.001	< 0.001	0.007	0.002	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB13	7.34	76	< 0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB3	7.47	142	0.001	0.002	< 0.001	0.007	0.003	<0.0001	<0.001	<0.03	<0.05	<0.1
	SWM4	7.96	382	0.002	<0.001	<0.001	0.009	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	Hayyakad												Tital (1989)
20/04/2012	SWM22	7.39	406	0.002	0.001	0.005	<0.005	<0.001	<0.0001	0.003	0.04	<0.05	<0.1
	SWM6	7.68	418	0.004	< 0.001	0.02	0.03	<0.001	< 0.0001	0.022	0.05	0.25	0.12
	SWM23	7.15	90	< 0.001	< 0.001	< 0.001	0.011	0.003	<0.0001	<0.001	< 0.03	<0.05	< 0.1
	SWM24	7.88	314	0.014	< 0.001	0.001	<0.005	<0.001	<0.0001	< 0.001	0.04	<0.05	< 0.1
	SWM11	7.46	83	<0.001	<0.001	<0.001	0.024	0.001	<0.0001	<0.001	< 0.03	<0.05	<0.1
	KB13	7.49	85	< 0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.1
	KB2	*	*	*	*		*	*	*	*	*	*	*
	KB3	*	*	*	*	(* /	*	*	*	*	*	*	*
	SWM4	7.81	932	0.004	<0.001	<0.001	<0.005	<0.001	<0.0001	0.007	0.03	0.1	<0.1
	Problém ($\gtrsim \setminus \cdot \cdot \cdot \setminus$								
17/05/2012	SMW22	7.82	580	0.003	0.002	0.009	0.009	0.002	< 0.0001	0.01	<0.03	0.18	<0.1
	SWM6	7.65	470	0.005	<0.001	0.035	<0.005	<0.001	<0.0001	0.045	0.03	1.31	0.19
	SWM23	7.36	101	0.092	0.002	<0.001	0.061	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	7.78	95	<0.001	<0.001	<0.001	0.019	< 0.001	<0.0001	< 0.001	<0.03	<0.05	<0.1
	SWM24	7.84	316	0.041	0.005	0.001	0.012	< 0.001	<0.0001	0.002	<0.03	< 0.05	<0.1
	SWM11	7.62	99	< 0.001	<0.001	<0.001	0.008	< 0.001	<0.0001	<0.001	<0.03	< 0.05	<0.1
	KB13	7,64	99	< 0.001	0.005	<0.001	0.015	0.003	<0.0001	<0.001	<0.03	<0.05	<0.1
	(KB3)	7.77	212	0.002	<0.001	< 0.001	0.015	0.003	<0.0001	<0.001	<0.03	<0.05	<0.1
	SWM4	> 8.49	1250	0.002	0.002	0.001	0.006	< 0.001	<0.0001	0.033	<0.03	0.56	0.2
30/06/2012	SMW22	8.15	626	0.005	< 0.001	0.018	0.006	0.001	<0.0001	0.047	*	1.21	<0.1
	SWM6	8.08	610	0.001	<0.001	0.012	<0.005	<0.001	<0.0001	0.036	0.04	0.37	0.11

	SWM23	7.21	284	<0.001	<0.001	<0.001	<0.00E	-0.001	0.0004	-0.001	0.00	2.05	
	5WW25 KB2	7.21 7.49	173	<0.001	<0.001	<0.001 <0.001	<0.005 0.008	< 0.001	0.0001	<0.001	0.06	<0.05	<0.1
	SWM24	*	*	*	*	*	v.uua *	0.001 *	<0.0001 *	<0.001 *	0.43 *	<0.05 *	<0.1 *
	SWM11	7.48	123	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.04	<0.05	
	KB13	7.47	181	<0.001	0.002	<0.001	0.009	<0.001	0.0001	<0.001	0.007	<0.05	<0.1 <0.1
	KB3	7.84	227	<0.001	0.003	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	SWM4	8.16	1110	0.002	0.001	<0.001	0.006	<0.001	< 0.0001	0.022	<0.03	0.38	<0.1
				[444]	2.112	A. 1915						V 0.30	
26/07/2012	SMW22	7.85	265	<0.001	<0.001	0.005	<0.005	<0.001	<0.0001	0.005	<0.03	0.09	<0.10
	SWM6	8.03	328	0.005	< 0.001	0.009	<0.005	< 0.001	<0.0001	0.012	<0.03	0.32	<0.10
	SWM23	7.06	126	0.001	< 0.001	< 0.001	<0.005	< 0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.10
	KB2	7.38	74	<0.001	< 0.001	< 0.001	<0.005	0.001	<0.0001	<0.001	< 0.03	< 0.05	< 0.10
	SWM24	8.07	267	0.015	< 0.001	< 0.001	<0.005	<0.001 <	<0.0001	0.001	< 0.03	< 0.05	<0.10
	SWM11	7.01	75	<0.001	<0.001	< 0.001	< 0.005	<0.501	<0.0001	< 0.001	<0.03	<0.05	<0.10
	KB13	7.31	67	< 0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	<0.001	< 0.03	< 0.05	<0.10
	KB3	7.65	133	<0.001	0.002	< 0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	< 0.05	<0.10
	SWM4	7.82	398	0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	0.001	<0.03	< 0.05	< 0.10
			101	7,44 2,44 4,44			(9/	V ::::::::::::::::::::::::::::::::::::	the Market Committee of the Committee of		2754 		
19/09/2012	KB 13	7.55	108	<0.001	0.001	<0.001	<0.005	0.002	<0.0001	<0.001	<0.03	<0.05	<0.10
	KB 2	7.72	123	<0.001	<0.001	<0.001	<0.005	0.006	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM 22	7.74	8 99	0.005	<0.001	0.014	<0.005	<0.001	<0.0001	0.028	0.05	0.28	0.14
	SWM 23	7.19	187	0.002	<0.001	<0.001	0.076	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	SWM 24	8.1	339	0.023	100.0	0.001	0.008	0.004	<0.0001	0.001	< 0.03	<0.05	<0.10
	SWM 11	7.64	139	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	< 0.03	<0.05	<0.10
	SWM 4	8.04	1310	0.005	0.001	< 0.001	0.005	0.005	<0.0001	0.018	< 0.03	0.18	<0.10
	SWM 6	8.07	570	0.006	<0.001	0.034	<0.005	0.002	<0.0001	0.044	<0.03	0.72	0.23
	KB 3	7.91	288	<0.001	0.001	< 0.001	<0.005	0.003	<0.0001	<0.001	<0.03	<0.05	<0.10
31/10/2012	VD42	(*(-0.004	0.000					A compression			
31/10/2012	KB13 SWM22	/// <	103	<0.001	0.009	<0.001	0.182	0.005	<0.0001	<0.001	0.03	<0.05	<0.1
	SWM23	dry dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
			dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6 SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	dry *	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM11	*	320	0.012	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	0.06	<0.06	<0.1
	PANIAITT	·	133	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	0.04	<0.05	<0.1

	KB2	*	130	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	0.12	<0.05	<0.1
	KB3	* Angar Pilin sa Pan	384	<0.001	0.002	<0.001	0.04	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
14/12/2012	IZD4D	regijaste em	rintaa jijaan Liitaa	oran mendigaleksi. Mana	in an applications.	The production of the second o	er e						andra en la graditation de la company
11/12/2012	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	diy	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	/div	dry	dry
	SWM24	7.98	314	0.063	<0.001	0.001	0.096	0.003	<0.0001	<0.001	0.3	<0.05	<0.1
	SWM11	7.98	174	<0.001	0.001	<0.001	0.023	0.002	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	8.08	146	<0.001	<0.001	<0.001	0.009	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB3	8.06	462	<0.001	<0.001	<0.001	0.054	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
		i a digilikashir T	e elleren jarre	eri ekalaban	vilalaşlarıdır. T		Madir	t it Diffusion					The second of th
15/01/2013	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry 📏	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	/ dty	dry	dry	dry	dry	dry	dry
	SWM24	8.03	324	0.02	0.003	0.001	0.059	0.003	<0.0001	< 0.001	<0.03	<0.07	<0.1
	SWM11	7.78	218	0.002	0.001	5.601	0.021	0.002	<0.0001	< 0.001	<0.03	<0.05	<0.1
	KB2	8.3	201	< 0.001	<0.001	<0.001	0.02	0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB3	7.81	550	<0.001	<0.001	<0.001	0.008	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
					$\geq /- $								
22/02/2013	KB13	7.64	73	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.005	<0.04	<0.05	< 0.10
	SWM22	8.19	252	0 092	<0.001	0.012	0.015	< 0.001	<0.0001	0.002	<0.03	0.08	<0.1
	SWM23	7.41	100	<0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	80.0	< 0.05	<0.1
	SWM6	8.29	252	0.006	< 0.001	0.021	<0.005	< 0.001	<0.0001	0.012	< 0.03	0.12	<0.1
	SWM4	8:29	466	0.003	< 0.001	< 0.001	<0.005	< 0.001	< 0.0001	< 0.001	0.04	<0.05	<0.1
	SWM24	8.25	251	0.037	< 0.001	0.002	0.014	< 0.001	< 0.0001	< 0.001	0.03	< 0.05	<0.1
	SWM11	7.65	73	< 0.001	0.001	< 0.001	0.039	0.003	< 0.0001	< 0.001	0.08	< 0.05	<0.1
	KB2)	7.62	69	< 0.001	0.002	< 0.001	0.021	< 0.001	< 0.0001	< 0.001	< 0.03	<0.05	<0.1
	КВЗ	> 7.8	103	<0.001	< 0.001	< 0.001	0.033	<0.001	<0.0001	<0.001	< 0.03	<0.05	<0.1
		14.54											
26/03/2013	KB2	7.31	49	<0.001	< 0.001	<0.001	*	< 0.001	<0.0001	<0.001	*	*	*
	SWM22	7.96	459	0.002	< 0.001	0.012	*	0.001	< 0.0001	0.009	*	*	*

	SWM11	7.32	51	<0.001	<0.001	<0.001	*	<0.0010	<0.0001	<0.001	*	*	*
				e ette katti e									The Asserts
27/03/2013	KB13	7.46	49	<0.001	<0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	<0.05	<0.10
	SWM22	8	272	0.002	<0.001	0.013	<0.005	<0.001	<0.0001	0.01	< 0.03	0.16	<0.10
	SWM23	7.23	94	0.001	< 0.001	<0.001	<0.005	< 0.001	< 0.0001	< 0.001	<0.04	<0.05	< 0.10
	SWM6	8.1	358	0.008	<0.001	0.03	<0.005	<0.001	<0.0001	0.037	0.05	0.68	<0.10
	SWM4	8.09	520	0.006	0.002	0.002	0.006	0.002	<0.0001	0.003	<0.03	0.08	< 0.10
	SWM24	8.06	290	0.018	< 0.001	0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	< 0.10
	SWM11	7.42	61	<0.001	< 0.001	<0.001	<0.005	< 0.001	<0.0001	< 0.001	<0.03	< 0.05	< 0.10
	KB2	7.32	57	<0.001	0.001	< 0.001	0.006	<0.001	<0.0001	<0.001	< 0.03	< 0.05	<0.10
	KB3	7.64	93	<0.001	0.002	<0.001	0.01	0.001	<0.0001	< 0.001	< 0.03	<0.05	< 0.10
			12				ng gyber	n saga qariib	\mathcal{N}				
30/04/2013	KB13	7.6	64	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	<0.05	<0.10
	SWM22	8.08	303	0.003	<0.001	0.01	<0.005	0.001	<0.0001	0.007	< 0.03	< 0.05	< 0.10
	SWM23	7.46	83	0.001	<0.001	0.001	0.005	<0.091	<0.0001	< 0.001	< 0.03	< 0.05	<0.10
	SWM6	8.15	372	0.007	0.001	0.023	0.008	<0.001	<0.0001	0.028	0.04	0.68	< 0.10
	SWM4	8.18	727	0.006	<0.001	<0.001	<0.005	<0.001	<0.0001	0.006	<0.03	<0.05	<0.10
	SWM24	8.05	274	0.017	0.002	<0.001	0.008	<0.001	<0.0001	< 0.001	< 0.03	< 0.06	<0.10
	SWM11	7.48	62	< 0.001	0.017	<0.001	0.069	0.005	<0.0001	< 0.001	< 0.04	< 0.05	< 0.10
	KB2	7.88	43	<0.001	< 0.001	<0.001	₹0.005	0.002	<0.0001	< 0.001	<0.03	<0.05	<0.10
	KB3	7.72	104	<0.001	0.003	<0.001	0.009	0.001	< 0.0001	< 0.001	< 0.03	< 0.05	< 0.10
			33.		\) / : / : / :							
30/05/2013	KB13	*	62	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	< 0.05	<0.10
	SWM22	*	469	0.007	<0.001	0.011	<0.005	<0.001	<0.0001	0.016	<0.03	0.17	0.14
	SWM23	*	122	0.002	<0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	< 0.03	<0.05	<0.10
	SWM6	*	433	0.007	<0.001	0.032	<0.005	0.002	<0.0001	0.058	<0.03	1.34	0.21
	SWM4	*	1360	Ø.008	< 0.001	<0.001	<0.005	<0.001	<0.0001	0.019	< 0.03	0.42	0.17
	SWM24	* (290	0.017	0.004	0.001	0.006	0.003	<0.0001	0.001	< 0.03	<0.05	<0.10
	SWM11	/*(772	< 0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	<0.03	< 0.05	<0.10
	KB2	<u>}</u>	*	*	*	*	*	*	*	*	*	*	*
	KB3	(J)* \	*	*	*	*	*	*	*	*	*	*	*
			-1						4.848				
					0.004	0.004		-0.001	0.0004				
25/06/2013	KB13	*	64	<0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
25/06/2013	KB13 SWM22 SWM23	* *	64 597 108	<0.001 0.012 0.006	<0.001 <0.001 <0.001	<0.001 0.013 <0.001	<0.005 0.007	<0.001	<0.0001	<0.001 0.021	<0.03 <0.03	<0.05 0.32	<0.10 <0.10

	SWM6	*	451	0.005	<0.001	0.034	<0.005	<0.001	<0.0001	0.078	<0.03	1.45	0.27
	SWM4	*	1290	0.008	<0.001	<0.001	<0.005	0.002	<0.0001	0.024	<0.03	0.43	< 0.10
	SWM24	*	286	0.028	<0.001	0.001	<0.005	<0.001	<0.0001	0.002	0.03	<0.05	<0.10
	SWM11	*	78	< 0.001	< 0.001	<0.001	<0.005	<0.001	<0.0001	< 0.001	0.03	<0.05	< 0.10
	KB2	*	61	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	< 0.10
	KB3	*	115	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
23/07/2013	KB13	*	79	< 0.001	< 0.001	<0.001	<0.005	0.001	<0.0001	<0.001	<0.03	<0.05	< 0.10
	SWM22	*	1020	0.048	0.002	0.037	0.006	0.002	<0.0001	0.04	0.04	0.79	< 0.10
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	*	440	0.008	< 0.001	0.044	<0.005	< 0.001	< 0.0001	0.086	0.03	1.43	0.33
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	304	0.02	< 0.001	0.001	<0.005	<0.001	<0.0001	0.001	< 0.03	<0.05	< 0.10
	SWM11	*	77	< 0.001	< 0.001	< 0.001	<0.005	<0.901	<0.0001	< 0.001	< 0.03	<0.05	< 0.10
	KB2	*	99	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	<0.0001	<0.001	< 0.03	<0.05	< 0.10
	KB3	*	161	< 0.001	< 0.001	< 0.001	<0.005	0.001	<0.0001	< 0.001	< 0.03	<0.05	< 0.10
								\\### *					
14/08/2013	KB13	*	160	< 0.001	0.007	< 0.001	0.016	0.003	<0.0001	<0.001	*	*	*
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	*	527	0.01	< 0.001	0.049	<0.005	0.002	<0.0001	0.107	*	*	*
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	373	0.016	0.004	0.001	0.015	< 0.001	<0.0001	<0.001	*	*	*
	SWM11	*	123	<0,001	<0.001	< 0.001	<0.005	0.001	<0.0001	< 0.001	*	*	*
	KB2	*	153	<0.001	<0.001	< 0.001	<0.005	< 0.001	< 0.0001	< 0.001	*	*	*
	KB3	*	183	<0.001	< 0.001	< 0.001	<0.005	< 0.001	<0.0001	<0.001	*	*	*
	1 1 1 1 1 1												
28/02/2014	KB3	* (980	<0.001	< 0.001	< 0.001	0.01	< 0.001	< 0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	/*/(64	< 0.001	0.001	< 0.001	<0.005	0.001	<0.0001	< 0.001	0.12	<0.05	<0.1
	SWM22		127	0.002	0.003	0.003	0.014	0.003	< 0.0001	< 0.001	<0.05	<0.06	< 0.13
	SWM6	*	180	0.005	< 0.001	0.008	<0.005	< 0.001	< 0.0001	0.003	0.08	<0.1	<0.2
	SWM4	*	151	0.002	< 0.001	< 0.001	<0.005	< 0.001	< 0.0001	<0.001	<0.05	<0.07	< 0.14
	SWM24	*	284	0.024	0.012	< 0.001	<0.005	0.001	< 0.0001	<0.001	< 0.05	<0.16	< 0.31
	SWM11	*	75	0.001	<0.001	< 0.001	<0.001	<0.005	< 0.0001	<0.0001	<0.05	<0.05	<0.1
	KB2	*	60	< 0.001	0.001	<0.001	<0.005	0.001	< 0.0001	<0.001	<0.05	<0.05	<0.1

	SWM23	*	67	0.001	<0.001	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
		Year (201)											
22/04/2014	KB3	*	80	0.001	0.002	<0.001	0.006	0.004	<0.0001	<0.001	*	*	*
	KB13	*	45	<0.001	0.001	<0.001	0.006	<0.001	< 0.0001	<0.001	*		*
	SWM22	*	132	0.002	0.001	0.003	<0.005	< 0.001	<0.0001	<0.001	*	*	*
	SWM6	*	233	0.008	0.007	0.006	0.02	0.004	<0.0001	0.008	*	*	*
	SWM4	*	262	0.002	0.003	<0.001	0.012	0.001	<0.0001	<0.001	* / /	*	*
	SWM24	*	294	0.021	<0.001	0.001	<0.005	< 0.001	< 0.0001	<0.001	// *///	*	*
	SWM11	*	69	0.002	0.001	< 0.001	<0.005	0.002	< 0.0001	< 0.001	*	*	*
	KB2	*	40	<0.001	0.002	<0.001	<0.005	0.002	< 0.0001	<0.001	*	*	*
	SWM23	*	59	0.002	0.002	< 0.001	0.007	0.002	<0.0001	<0.001	*	*	*
	<u></u>		1,11	12.11.12		16,000	e 1. esperie				J. 196		
18/06/2014	KB3	*	121	<0.001	0.001	<0.001	<0.005	<0.001 <	<0.0001	<0.001	<0.05	<0.05	<0.10
	KB13	*	61	<0.001	0.002	<0.001	0.02	0.002	<0.0001	<0.001	< 0.05	< 0.05	< 0.10
	SWM22	*	224	0.001	<0.001	0.004	<0.005	<0.091	<0.0001	0.003	<0.05	0.09	<0.10
	SWM6	*	395	0.004	0.001	0.014	<0.005	0.003	<0.0001	0.035	<0.05	0.9	0.33
	SWM4	*	382	0.002	0.002	< 0.001	0.014	0.003	< 0.0001	<0.001	<0.05	< 0.05	<0.10
	SWM24	*	303	0.015	< 0.001	0.001	0.01	0.001	<0.0001	0.001	<0.05	< 0.05	<0.10
	SWM11	*	65	<0.001	0.002	<0.001	0.022	0.006	< 0.0001	< 0.001	<0.05	< 0.05	<0.10
	KB2	*	53	<0.001	< 0.001	<0.001	√0.005	0.003	<0.0001	<0.001	< 0.05	< 0.05	<0.10
	SWM23	*	97	0.001	0.008	<0.001	0.019	0.002	<0.0001	<0.001	< 0.05	< 0.05	<0.10
							ers III is				elegis.		
3/09/2014	KB3	*	102	<0.001	<0.001	<0.001	<0.005	0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	*	85	<0.001	<0.001	< 0.001	0.148	<0.001	< 0.0001	<0.001	<0.05	< 0.05	<0.1
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry (dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	*	1500	0.01	0.002	< 0.001	0.015	0.004	<0.0001	0.019	<0.05	0.2	0.24
	SWM24	*	295	0.033	0.007	< 0.001	0.022	0.005	< 0.0001	0.001	< 0.05	<0.05	<0.1
	SWM11	*(66	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.0001	<0.001	< 0.05	< 0.05	<0.1
	KB2)/*//	71	<0.001	<0.001	< 0.001	<0.005	0.003	< 0.0001	<0.001	< 0.05	< 0.05	<0.1
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
						* ***	Flw.		utayé <u>e</u>	uwawiji n	, topul		
17/10/2014	КВЗ	*	166	0.002	0.002	< 0.001	0.022	0.006	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	*	86	< 0.001	< 0.001	< 0.001	<0.005	0.006	<0.0001	<0.001	<0.05	< 0.05	<0.1
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry		

	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	281	0.023	0.005	<0.001	0.008	0.004	< 0.0001	< 0.001	0.06±0.011	<0.09	<0.18
	SWM11	*	91	< 0.001	< 0.001	< 0.001	<0.005	< 0.001	< 0.0001	< 0.001	<0.05	< 0.05	< 0.1
	KB2	*	108	< 0.001	< 0.001	< 0.001	0.009	0.002	< 0.0001	<0.001	<0.05	<0.05	<0.1
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
*****							1742.17						
12/12/2014	KB3	*	286	0.002	0.008	< 0.001	0.012	0.006	<0.0001	< 0.001	0.06	0.06	< 0.1
	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dipy	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	433	4.39	0.036	0.003	0.28	0.054	<0.0001	0.008	0.47	0.47	0.84
	SWM11	*	110	0.004	0.003	< 0.001	<0.005	0.003	<0.0001	<0.001	<0.05	<0.05	< 0.1
	KB2	*	104	< 0.001	< 0.001	< 0.001	<0.005	<0.001	<0.0001	< 0.001	<0.05	<0.05	<0.1
	SWM23	dry	dry	dry	dry	dry	dry	dry \	dry	dry	dry	dry	dry
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	es degradada filologia en 11 de es					1						
27/02/2015	KB3	*	132	0.002	0.002	< 0.001	0.012	0.004	<0.001	<0.001	<0.05	<0.05	<0.1
	KB13	*	77	< 0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.05	<0.05	<0.1
	SWM22	*	194	0.004	<0.001	0.009	<0.005	0.006	<0.001	0.001	< 0.05	<0.05	<0.1
	SWM6	*	243	0.033	0.002	0.022	0.012	0.022	<0.001	0.019	0.18	0.49	0.16
	SWM4	*	262	0.005	0.001	<0.001	0.012	0.005	<0.001	< 0.001	0.1	<0.05	<0.1
	SWM24	*	366	0.016	<0.001	0.002	<0.005	0.003	<0.001	0.003	<0.05	0.1	<0.1
	SWM11	*	75	<0.001	0.002	< 0.001	0.022	0.013	<0.001	< 0.001	0.07	<0.05	<0.1
	KB2	*	74	<0.001	<0.001	< 0.001	0.009	0.002	<0.001	<0.001	0.05	<0.05	<0.1
	SWM23	*	89	0.002	0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.05	<0.05	<0.1
			_ (2)										
29/05/2015	KB3	* (303	0.001	0.002	< 0.001	0.009	0.007	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	> dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	398	0.007	< 0.001	0.001	<0.005	<0.001	<0.0001	0.005	<0.05	0.14 ±0.026	<0.1
	SWM11	*	115	0.001	0.002	<0.001	<0.005	0.008	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB2	*	104	<0.001	<0.001	< 0.001	<0.005	0.004	<0.0001	< 0.001	<0.05	<0.05	<0.1

	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
12/08/2015	KB3	*	394	0.011	0.002	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.03	≤0.05	<0.1
	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	*	363	0.011	0.002	0.001	0.008	<0.001	< 0.0001	0.003	<0.03	<0.05	<0.1
	SWM11	*	156	0.002	0.001	<0.001	<0.005	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.1
	KB2	*	142	< 0.001	< 0.001	< 0.001	< 0.005	<0.001	< 0.0001	£00.0>	<0.03	<0.05	< 0.1
	SWM23	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	en e									/			
15/10/2015	KB3	7.19	442	0.001	0.002	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB13	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM22	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM6	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM4	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	SWM24	dry	dry	dry	dry,	dry	dry	dry	dry	dry	dry	dry	dry
	SWM11	8.02	223	0.002	< 0.001	<0.001	<0.005	<0.001	< 0.0001	<0.001	<0.05	<0.05	<0.1
	KB2	8.47	193	0.001	< 0.001	< 0.001	<0.0050	0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	SWM23	dry	dry	dry	dry	//dry//	dry	dry	dry	dry	dry	dry	dry
·		na trisi					1.0	y yakaran k	eri elleri				
18/12/2015	KB3	*	*	0.002	0.002	<0.001	<0.005	<0.001	<0.0001	<0.001	<0.05	<0.05	<0.1
	KB2	*	*	0.003	0.002	<0.001	<0.005	0.001	< 0.0001	<0.001	< 0.05	<0.05	<0.1
	SWM11	*	*	0.009	0.002	0.002	< 0.005	0.002	< 0.0001	<0.001	< 0.005	<0.05	<0.1
			(

Date	Site	рH	TDS	As	Cu	Mo	Zn	Рb	Hg	Mobile U	RA-226	Gross alpha	Gross beta
EA Conditions		•	500mg/L	0.007mg/L	1.0mg/L	0.05mg/L	3.0mg/L	0.01mg/L	0.001mg/L	0.02mg/L	0.5Bq/L	0.1Bq/L	0.5Bq/L
22/12/2010	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2		604	0.015	0.013	0.001	0.033	0.016	<0.0001	0.004	<0.03	<0.17	0.55
	GWM16		250	0.01	0.004	0.001	0.024	0.006	< 0.0001	0.001	0.14	0.11	0.27
	GWM6		722	0.009	0.002	<0.001	0.021	0.002	< 0.0001	< 0.001	0,05	<0.1	<0.1
	(1944年)	4, 4, 21	111111	المستقران	1.7	-15,000				i oper		\\\	10.1
29/01/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP US	8.09	376	0.032	0.006	-	0.027	0.013	<0.0001	0.003	<0.06	0.66	0.59
	BL SP DS2	7.46	504	0.036	0.004		0.018	0.008	<0.0001	0.002	<0.06	0.19	0.3
	GWM6	7.27	740	0.038	0.02		0.319	0.094	<0.0001	0.002	<0.06	<0.13	<0.1
	GWM16	7.49	135	0.009	0.002		0.016	0.003	<0.0001	<0.001	<0.06	0.2	0.13
	e proesie by Andr Karamana stalie	1.144.1			$\mathcal{I}_{\mathcal{P}_{i}^{1}}(Y_{i}^{1})$	en makipe e					un kali		
11/03/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
•	BL SP DS2	8.13	575	0.02	0.001	< 0.001	0.007	<0.001	<0.0001	0.001		<0.1	0.19
	BL SP US	7.98	3020	0.002	0.006	< 0.001	0.017	0,004	<0.0001	0.017		0.76	0.53
	GWM6	8.19	759	0.014	0.003	< 0.001	0.02	6.904	<0.0001	< 0.001		<0.11	0.1
	GWM16	7.43	136	0.01	<0.001	< 0.001	0.015	0.002	< 0.0001	<0.001		0.08	0.13
	e de la dese					V 2162 1	- 46		kin hilan		+ <u>1</u>		3.13
30/04/2011	BL SP DS1	dry	dry	dry	dry	dry\ /	yık	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.44	832	0.013	0.011	< 0.001	0.076	0.022	<0.0001	0.005	<0.03	0.62	0.41
	BL SP US	7.33	3920	0.006	0.002	<0.001	0.019	0.003	< 0.0001	0.012	0.06	<0.62	<0.1
	GWM6	7.12	190	0.017	0.002	0.001	0.127	0.009	<0.0001	< 0.001	< 0.03	<0.11	0.11
	GWM16	7.85	760	0.01	0.002	<0.001	0.014	0.01	<0.0001	< 0.001	0.03	<0.12	0.1
				上世界的人									m william para
26/05/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.19	1030	0.036	0.005	< 0.001	0.034	0.005	< 0.0001	0.003	<0.03	1.09	1.7
	BL SP US	7.12	4160	0.006	0.002	< 0.001	0.01	0.002	<0.0001	0.008	0.06	<0.55	<0.1
	GWM6	7.83	702	0.01	<0.001	<0.001	0.01	0.002	<0.0001	< 0.001	< 0.03	< 0.09	0.11
	GWM16	7.15	201	0.027	0.001	0.002	0.016	0.001	< 0.0001	< 0.001	< 0.03	<0.08	<0.1
		#13.1.	(Q)			44.50[4.5	J. Charles		46 (46) 4		J. 24	Andrew Control	
31/08/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	//(43 0 0	0.01	0.002	< 0.001	0.006	0.002	<0.0001	0.003	0.07	<0.84	<0.1
	BL SP US		1160	0.056	0.02	< 0.001	0.089	0.038	< 0.0001	0.005	0.07	<0.25	0.2
	GWM6		751	0.01	0.003	< 0.001	0.008	0.009	< 0.0001	< 0.001	0.05	<0.13	<0.1
	GWM16		438	0.034	0.004	0.004	0.038	0.004	<0.0001	< 0.001	< 0.03	<0.28	0.17
a jan anaa		>	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	12		1.2	12.		and the second of the second o				
30/09/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.21	1110	0.004	0.001	<0.001	0.006	<0.001	< 0.0001	0.003	0.03	<0.41	<0.1
	BL SP US	7.04	4440	0.028	<0.001	0.001	<0.005	<0.001	<0.0001	0.001	0.07	<1.32	<0.1

	GWM6	7.54	729	0.012	0.001	<0.001	0.015	<0.001	<0.0001	<0.001	<0.04	<0.13	0.15
	GWM16	7.37	522	0.031	0.002	0.004	0.032	0.003	<0.0001	<0.001	<0.03	0.37	0.56
23/10/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	ary	dry
25/10/2011	BL SP DS2	7	1200	0.053	0.012	<0.001	0.055	0.022	< 0.0001	0.004	0.03	<0.38	0.87
	BL SP US	7.13	4660	0.009	0.008	<0.001	0.016	0.01	<0.0001	0.004	<0.04	<0.6	<0.1
	GWM6	7.67	757	0.014	0.002	<0.001	0.016	0.003	<0.0001	< 0.001	<0.04	<0.11	< 0.1
	GWM16	7.26	559	0.025	0.003	0.003	0.027	0.004	<0.0001	<0.001	<0.04	0.84	0.32
12/11/2011	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
,,	BL SP DS2	7.37	1290	0.062	0.006	<0.001	0.026	0.009	<0.0001	0.004	0.04	<0.3	0.25
	BL SP US	7.27	4430	0.01	0.002	<0.001	0.006	0.001	<0.0001	0.003	0.08	1.74	1.07
	GWM6	7.75	815	0.018	0.002	<0.001	0.016	0.001	<0.0001	<0.001	0.04	<0.05	< 0.01
	GWM16	7.44	706	0.025	0.003	0.003	0.047	0.004	<0.0001	<0.001	<0.04	0.26	0.46
6/01/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
0/01/2012	BL SP DS2	7.65	1410	0.056	0.006	0.001	0.094	0.002	<0.0001	0.001	0.13	<0.19	0.22
	BL SP US	7.43	5080	0.007	0.002	<0.001	<0.005	0.002	<0.0001	0.001	0.09	0.91	0.46
	GWM6	8.04	798	0.015	0.002	<0.001	0.008	0.004	<0.0001	<0.001	0.1	<0.05	0.15
	GWM16	7.36	529	0.022	0.004	0.002	9.922	0.007	<0.0001	0.002	<0.06	0.13	0.12
16/02/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.65	290	0.018	0.002	0.001	0.012	0.004	<0.0001	<0.001	<0.03	1.17	0.4
	BL SP US	7.37	776	0.006	0.026	<0.001	0.077	0.05	<0.0001	0.002	<0.03	0.13	0.84
	GWM6	8.09	798	0.014	0.002	<0.001	0.02	0.004	<0.0001	<0.001	<0.03	<0.09	<0.1
	GWM16	7.08	240	0.011	0.002	<0.001	0.016	0.004	<0.0001	<0.001	0.06	<0.05	0.11
20/04/2012	BL SP DS1	7.31	1230	0.005	0.009	< 0.001	0.03	0.016	<0.0001	0.003	ugh water for	r sample	
	BL SP DS2	7.34	550	0.004	<0.001	< 0.001	<0.005	< 0.001	<0.0001	0.002	<0.03	<0.05	<0.1
	BL SP US	7.28	1260	0,003	<0.001	< 0.001	0.014	0.002	<0.0001	0.001	0.05	0.08	0.3
	GWM6	7.92	830	0.008	<0.001	< 0.001	0.024	0.008	<0.0001	< 0.001	0.03	<0.05	<0.1
	GWM16	7.22	2140	0.015	<0.001	0.001	0.01	0.003	<0.0001	<0.001	0.04	<0.05	<0.1
17/05/2012	BL SP DS1			al an a	dry	alus s		i jaka jaka na	and a surface of the	al mu	n ett vogfisigste der		d m .
1//05/2012	BL SP DS2	dry 7:18	dry 692	dry 0.023	0.012	dry <0.001	dry 0.053	dry 0.025	dry <0.0001	dry 0.003	dry 0.03	dry <0.05	dry 0.27
	BL SP US		1520	0.023	<0.012	<0.001	0.033	0.023	<0.0001	0.003	<0.03	<0.03	0.27
	GWM5	7.15	814	0.007	0.003	0.001	0.006	0.001	<0.0001	<0.001	0.03	<0.18	<0.1
	GWM16	7.94 7.18	814 352	0.012	0.003	0.002	0.026	0.009	<0.0001	<0.001	<0.03	0.16	<0.1 0.19
30/06/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry

	BL SP DS2	7.59	910	0.027	0.008	40.004	0.020	0.045	0.0004				
	BL SP US	7.53 7.54	1670	0.027	<0.001	<0.001	0.028	0.015	<0.0001	0.002	0.05	0.07	0.24
	GWM6	8.3	830	0.007	0.001	< 0.001	0.008	<0.001	<0.0001	<0.001	0.05	<0.08	<0.1
	GWM16	7.69				0.001	0.024	0.006	<0.0001	< 0.001	<0.03	<0.05	<0.1
	GAAIAITO	7.09	620	0.025	0.004	0.003	0.038	0.005	<0.0001	<0.001	0.04	<0.13	0.15
26/07/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.34	421	0.018	< 0.001	< 0.001	< 0.005	< 0.001	<0.0001	0.001			,
	BL SP US	7.15	1720	0.009	0.001	< 0.001	0.009	0.001	< 0.0001	0.001	$ _A r $		
	GWM6	7.77	761	0.008	0.001	< 0.001	0.016	0.005	< 0.0001	<0.001			
	GWM16	6.94	465	0.014	0.001	0.002	0.023	0.008	<0.0001	0.001			
40 100 100 10													
19/09/2012	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.33	1040	0.017	0.003	<0.001	0.009	0.007	<0.0001	< 0.001	< 0.04	< 0.10	0.3
	BL SP US	7.18	2220	0.004	0.004	<0.001	0.012	0.007	<0.0001	< 0.001	0.05	<0.19	0.31
	GWM 6	7.63	783	800.0	<0.001	<0.001	0.009	0.004	<0.0001	<0.001	<0.03	< 0.05	<0.10
	GWM 16	7.02	561	0.017	0.006	0.002	0.021	0.006	<0.0001	0.002	<0.04	<0.06	0.11
31/10/2012	BL SP DS1				·								
31/10/2012	BL SP DS1		dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
			1100	0.067	0.001	0.002	0.01.4	<0.001	<0.0001	<0.001	0.05	<0.18	<0.1
	BL SP US		1880	0.008	0.041	<0.061	0.153	0.08	<0.0001	0.012	80.0	0.85	8.0
	GWM6		1220	0.016	0.018	<0.001	0.074	0.035	<0.0001	0.005	0.04	<0.08	0.2
•	GWM16		680	0.018	0.004	0.002	0.014	0.004	<0.0001	0.002	<0.03	0.17	0.12
11/12/2012	BL SP DS1	dry	dry	dry	dry	dry							
ww, 22, 2011	BL SP DS2	7.59	1150	0.069	0.011	<0.001	dry 0.049	dry	dry	dry	dry	dry	dry
	BL SP US	-	-	0.032	0.054	>		0.028	<0.0001	0.006	0.06	<0.42	<0.1
	GWM6	7.46	638	0.032	0.034	<0.001 0.002	0.276	0.679	<0.0001	0.038		cient water to	
	GWM16	7.93	774	0.022	0.01	<0.002	0.839 0.008	0.033	<0.0001	0.004	0.32	<0.13	0.43
		7.55		(0.00)	V0.001	\0.001	0.006	<0.001	<0.0001	<0.001	0.07	<0.05	<0.1
15/01/2013	BL SP DS1	dry	dry (C	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.44	1240	0.046	0.004	0.001	0.028	0.003	<0.0001	<0.001	<0.03	<1.43	<0.1
	BL SP US	7.3	2000	0.011	0.019	< 0.001	0.157	0.134	< 0.0001	0.019		cient water to	
	GWM6	7.97	774	0.007	0.002	< 0.001	0.037	0.005	<0.0001	< 0.001	0.03	<0.05	<0.1
	GWM16	7.34	1580	0.022	0.011	0.002	0.629	0.039	<0.0001	0.004	0.13	0.27	0.58
							*.	1777					0.50
22/02/2013	BL SP OS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	> 7.84	507	0.057	0.003	< 0.001	0.017	0.006	<0.0001	<0.001	0.32	<0.11	0.15
	BL SP US	7.04	568	0.014	0.055	0.002	0.329	0.103	0.0001	0.011	0.18	0.36	0.75
	GWM6	8.22	800	0.108	0.016	0.002	0.059	0.004	< 0.0001	< 0.001	0.09	<0.05	<0.1
	GWM16	6.7	3310	0.068	0.072	0.003	2.69	0.239	<0.0001	0.018	0.78	0.45	1.03

		*	Turk										
27/03/2013	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2	7.55	704	0.063	0.003	0.001	0.018	0.006	<0.0001	0.001	<0.03	0.49	0.44
	BL SP US	7.46	2700	0.017	0.071	<0.001	1.73	0.161	<0.0001	0.015	0.23	13	1.48
	GWM6	7.91	706	0.055	0.001	< 0.001	0.027	0.007	< 0.0001	<0.001	0.03	<0.05	< 0.10
manana and an and an and an	GWM16	7.15	3820	0.099	0.117	0.003	4.1	0.353	<0.0001	0.026	0.27	1.02	1.12
20/04/2012	DI CD DC1	المالية		ida da priministra. Ame	radioanida (nombre		verille i berger Ame	der	dry	dentification of the second		dne	dry
30/04/2013	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	<0.0001	dry <0.001	dry <0.03	dry <0.90	<0.10
	BL SP DS2	7.53	995	0.015	0.002	<0.001	0.014	0.001			\\\C0.05	<0.90	<0.10
	BL SP US	NT	NT	0.003	0.002	< 0.001	<0.005	0.006	<0.0001	0.009	*0.07	-0.05	.0.10
	GWM6	7.98	731	0.021	0.003	<0.001	0.036	0.005	<0.0001	<0.001	<0.03	<0.05	<0.10
	GWM16	7.25	709	0.01	0.004	<0.001	0.027	0.006	<0.0001	<0.001	<0.03	0.2	0.25
30/05/2013	BL SP DS1	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
,,	BL SP DS2	,	981	0.092	0.011	0.001	0.063	0.02	<0.0001	0.003	0.04	<0.25	0.24
	BL SP US		1640	0.053	0.136	0.001	0.614	0.279	<0.0001	0.055			
	GWM6		715	0.015	0.002	<0.001	0.018	0.01	<0.0001	< 0.001	<0.03	<0.05	0.1
	GWM16		5050	0.053	0.063	0.003	2.41	0.199	< 0.0001	0.009			
										ar en el colonida de portes. A la resta de la participação			
25/06/2013	BL SP DS1	dry	dry	dry	dry	dry 🔷	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2		1090	0.085	0.002	0.003	0.023	0.009	<0.0001	0.016	0.06	0.84	0.24
	BL SP US			0.043	0.106	< 0.001	0.452	0.232	< 0.0001	0.045			
	GWM6		753	0.066	0.001	0.002	0.015	0.003	<0.0001	<0.001	< 0.03	<0.05	< 0.10
	GWM16		12900	0.271	0.356	0,011	11.3	0.981	<0.0005	0.067			
					A = V C),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
23/07/2013	BL SP DS1	dry	dry	dry	dry dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2		1130	0.104	0.003	0.002	0.019	0.002	<0.0001	0.007	0.03	2.43	0.12
	BL SP US	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	GWM6		766	0.033	0.001	0.001	0.011	< 0.001	<0.0001	<0.001	<0.03	<0.05	<0.10
	GWM16	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
4 100 10040			\sim $\langle 0 \rangle$		ereni, giraini, da Alba	Side of segli							Major de Major de Major Alexandro
14/08/2013	BL SP DS1	dny	Alfa	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	BL SP DS2		1080	0.107	0.014	0.002	0.258	0.072	<0.0001	0.004	- 3	-t	-1
	BL SP US	dity	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
	GWM6		770	0.022	0.003	<0.001	0.013	0.002	<0.0001	<0.001	.1 .		al-
	GWM16	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
28/02/2014	BL SP DS1	Dry	e designative (film)	Production (Section)	and the second succession	AND THE TOTAL THE DE	Agent 1 114			droje Virter (djeradil)	11 - 3 (4.00 (5.00 (4	Here a statut section	
20/02/2014	BL SP DS 2	Diy	633	0.082	0.012	0.001	0.059	0.013	<0.0001	0.002	0.06	<0.42	<0.83
	BL SP US 2		1220	0.002	0.012	< 0.001	0.033	0.013	<0.0001	0.002	0.00	<0.42	<0.5
	DL 37 U3		1220	0.007	0.02	<0.00T	0.007	0.026	<0.0001	0.003	0.1	NU.23	~0.3

	GWM16		212	0.008	0.003	<0.001	0.014	0.005	<0.0001	<0.001	<0.05	<0.05	0.17
	GWM6		736	0.014	0.005	<0.001	0.037	0.009	<0.0001	< 0.001	< 0.05	<0.07	<0.14
22/04/2014	BL SP DS1	Dry											
• •	BL SP DS 2	,	931	0.051	0.009	<0.001	0.027	0.009	<0.0001	0.002		\bigcirc	
	BL SP US		1880	0.007	0.018	<0.001	0.046	0.016	<0.0001	0.002			
	GWM16		120	0.011	0.003	< 0.001	0.018	0.008	<0.0001	<0.001	$\langle \langle $		
	GWM6		788	0.009	0.002	< 0.001	0.018	0.008	<0.0001	<0.001	7/1/4/17		
						4.50 may r	1.11.43		-, 1 1.				
10/07/2014	BL SP DS1	Dry			•	* ** ******		1944					
	BL SP US		2940	0.026	0.29	< 0.001	0.719	0.455	<0.0001	0.055	no result	1.32	6.53
	GWM16		448	0.019	0.005	0.002	0.061	0.006	< 0.0001	<0.001	< 0.05	< 0.05	<0.10
	GWM6		699	0.01	0.004	<0.001	0.027	0.005	<0.0001	<0.001	<0.05	0.05	<0.10
20 100 100 4		· <u>-</u> -											
23/09/2014	BL SP DS1	Dry											
	BL SP US	Dry	4.470	0.000	0.000		<	$\langle \rangle \rangle_{} \setminus \langle \rangle$					
	GWM16		1470	0.033	0.029	0.008	1.31	0.053	<0.0001	0.003	0.26	0.3	0.35
	GWM6		718	0.012	0.004	<0.001	0.049	0.007	<0.0001	< 0.001	<0.05	0.07	<0.1
17/10/2014	BL SP DS1	Dry											
4,,40,401.	BL SP DS 2	υ.,	1590	0.142	0.007	0.002	0.025	0.006	<0.0001	0.002	<0.0E	0.4510.007	0.25
	BL SP US	Dry	2000	V13.72	0.007	0.052	9.925	0.000	<0.001	0.002	<0.05	0.15±0.027	0.25
	GWM16		1960	0.039	0.055	0.005	4.9	0.175	<0.0001	0.008	0.68±0.005	27.4±1.37	29.4±1.61
	GWM6		736	0.012	0.009	<0.001	0.038	0.005	<0.0001	<0.001	<0.05	<0.05	0.1
	Asta-As							0.000	40.0002	10.001	40.03	~0.05	0.1
12/10/2014	BL SP DS1	Dry		(<i>></i>			e de la companya de l La companya de la companya de	·		·	
	BL SP DS 2		1490	0.163	0.005	0.002	0.034	0.003	<0.0001	<0.001	0.13	0.17	0.18
	BL SP US	Dry								•			
	GWM16	Dry		> \									
	GWM6		720	0.012	0.005	<0.001	0.068	0.004	<0.0001	<0.001	0.06	0.06	<0.1
			(2)										
27/02/2015	BL SP DS1	Dry	\bigcirc										
	BL SP DS 2	_///	1.800	0.134	0.008	0.002	0.056	0.018	<0.001	0.003	<0.05	0.14	0.11
	BL SP US	Dry\\	22-2										
	GWM16	(0)	3270	0.044	0.071	0.003	1.51	0.145	<0.001	0.009	0.15	3.9	4.59
	GWM6	>	749	0.007	0.004	<0.001	0.042	0.021	<0.001	< 0.001	<0.05	0.07	<0.1
29/06/2015	BL SP DS1	Dry								1. 1.1.			
23/00/2013	BL SP US	Dry											
	GWM16	Dry											
	31111110	U y											

	GWM6		716	0.056	0.007	0.002	0.162	0.048	<0.0001	0.001	<0.05	0.06±0.018	<0.1
12/08/2015	BL SP DS1 BL SP US GWM16 GWM6	Dry Dry Dry	736	0.007	0.002	<0.001	0.027	0.002	<0.0001	<0.001	<0.03	<0.05	<0.10
15/10/2015	BL SP DS1 BL SP DS 2 BL SP US GWM16	Dry 6.84 Dry Dry	1270	0.105	0.003	0.001	0.02	0.004	<0.0001	9.004			0.27 +/-0.09
	GWM6	6.64	787	0.113	0.039	0.004	7.22	0.233	<0.0001	0.003	<0.05	<0.05	0.14+/-0.07
18/12/2015	BL SP DS1 BL SP DS 2 BL SP US		2760	0.272	0.044	0.003	0.241	0.113	0.241	0.017	0.11 ±0.019	0.57 ±0.052	0.26 ±0.09
	GWM16 GWM6		224	0.125	0.006	0.004	0.297	0.034	<0.0001	<0.001	<0.05	0.28 ±0.036	0.28 ±0.08

I essential agree with the assessment, but am uncertain whether all the contamination comes from surface tailings. Could a minor come from groundwater accessing underground workings, as air would probably penetrate these as well. However, I agree that there is no doubt that the contamination is derived from exposed ore.

Where do we go from here? Cattle, wildlife and people using creeks (especially Keelbottom Creek) could be affected. Keelbottom Creek should be regularly monitored. Similarly, the Burdekin River, for which Keelbottom Creek is a tributary, should be regularly monitored for radiation and relevant heavy metals in case contamination occurs subsequent to particular weather events.

Yours sincerely Mike Rubenach

(Dr Mike Rubenach, retired Senio (lecturer, Geology, JCU)

6/8/2016

^_sent^_ ^_you^_ a ^_new^_ ^_message^_ Subject: From: messaging-digest-noreply@linkedin.com mangocube6@yahoo.co.uk Date: Monday, 5 September 2016 12:33:06 PM AEST Mark Bailey You have unread messages from X Sch 4 CTPI Hi Mark Thanks for connecting. I hope all is going well. Let me know if you ever wish to catch up and chat about the water sector. **Best Wishes** Sch 4 CTP Reply Opportunity is always within reach. Get the LinkedIn app. iOS (Android Unsubscribe Help This email was intended for Mark Bailey (MP for State Seat of Yeerongpilly, Minister for Main Roads, Road Safety, Ports, Energy, Biofuels, Water Supply). Learn why we included this.

Linked

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Subject: Re: EHP

From:

David Sewell (david.sewell

To:

mangocube6@yahoo.co.uk;

Date:

Wednesday, 14 September 2016, 7:03

Thanks Mark

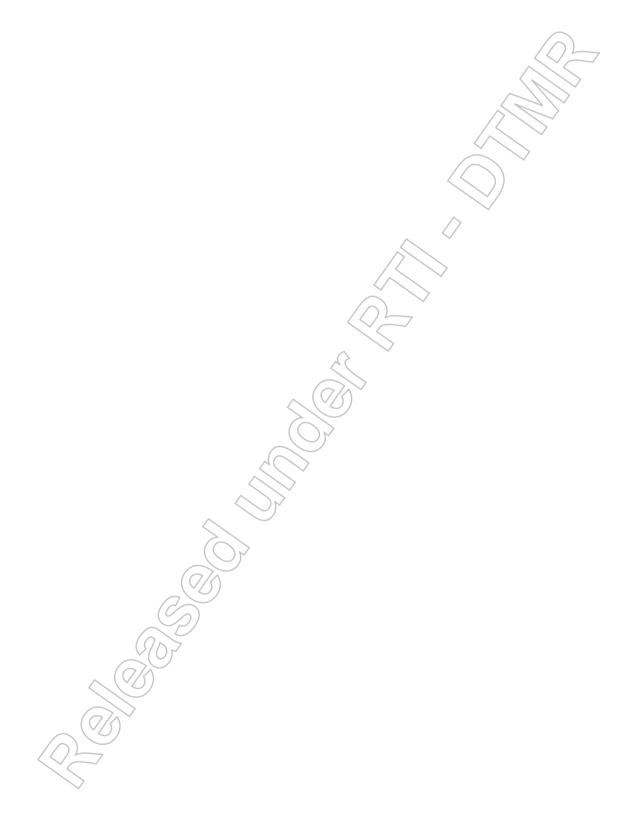
Sent from my iPhone

> On 14 Sep 2016, at 6:16 AM, Mark Bailey <mangocube6@yahoo.co.uk> wrote:

> Hey Dave,

> Don't have a formal response just yet but our office has been working with EHP and should have something soon, hopefully today. M

> Sent from my iPhone



Subject: Ministers response

From: David Sewell (david.sewell

mangocube6@yahoo.co.uk;

Date: Saturday, 17 September 2016, 6:31

Hi Mark,

To:

Thanks for getting on to our issue. We were extremely disappointed in the response from the Environment Ministers office (attached) which failed to answer the central question about what the government and the leaseholder have done to stop the pollution.

In addition the question regarding advice to councils affected by the pollution in relation to water supply was unanswered. As Minister for water do you have any thing to add?

Also. I can't say I'm filled with confidence that your staff failed to bring this matter to your attention. We are now working closely with NQCC and seek to gain answers to which we are entitled.

Regards, Dave Sewell

Attachments

• ministers response 16.9.16.pdf (285.65 KB)



Hon Dr Steven Miles MP Minister for Environment and Heritage Protection and Minister for National Parks and the Great Barrier Reef

Ref CTS 20161/16

Level 13
400 George Street Brisbane Qld 4000
GPO Box 2454 Brisbane
Queensland 4001 Australla
Telephone +61 7 37 19 7330
Email environment@ministerial.qid.gov.au

1 6 SEP 2016

Mr David Sewell Spokesperson Citizens Against Mining Ben Lomond Sch 4 CTPI

Dear Mr Sewell

Thank you for your emails of 8 August 2016 concerning the Ben Lomond mine site. I am responding on the Minister's behalf.

The Department of Environment and Heritage Protection has responded to matters of non-compliance and has required the Environmental Authority (EA) holder to undertake an Environmental Evaluation (EE) in relation to contaminant sources at Ben Lomond. The EE did identify both natural and mining activity sources of mineralisation.

I can advise you that the findings of the EE, combined with reporting that the EA holder has provided to the department as a requirement of the conditions of the EA, are now the basis for further compliance action at the Ben Lomend site. Given that this is an active compliance matter, the department is not at liberty to comment further. I can assure you that departmental officers continue to monitor compliance with the statutory requirements and ensure that measures are in place to protect the environmental values.

I note your concern with regard to the EA and the 2015 amendment. I have been advised that the 2015 amendment was a minor administrative amendment and did not change any of the existing conditions contained in the EA. The description of the Environmentally Relevant Activity was amended to reflect the only activity which is authorised on the site being exploration. Mining, ore extraction and mineral processing continue to be unauthorised on this site.

Should you have any further enquiries, please contact Mr Scott Sullivan, Program Manager, Compliance of the Department of Environment and Heritage Protection on telephone (07) 4722 5200.

Yours sincerely

Sch 4 CTPI

Hhilip Halton Chief of Staff

direct when there is a flat

Subject: Ben Lomond

From: David Sewell (david.sewell

Sch 4 CTPI

To:

EHPMinister.Corro@ehp.qld.gov.au;

Cc:

sdnrm@ministerial.qld.gov.au; energyandwatersupply@ministerial.qld.gov.au;

Date:

Sunday, 18 September 2016, 20:50

Dear Minister Miles,

Thank you for your response to our letter of 8/08/2016.

Let me start by emphasizing the high level of concern that we, as local residents, have about the serious pollution of nearby waterways with heavy metals and radioactive compounds for many years by the Ben Lomond leaseholder, which DNRM and DEHP have allowed to continue. For us, this situation is urgent, and constitutes a threat to public health.

Therefore we request that you release the recent Environmental Evaluation in relation to contaminant sources at Ben Lomond to us, the public affected, and tell us what constitutes your department's "further compliance action".

We also request that you explain why we should believe your advice that your officers "will continue to monitor compliance with the statutory requirements" given that the serious pollution and ongoing non-compliance took place over five years (and presumably over much or all of the 30 years prior to that, from the original operation of the mine). Given that we asked you directly, your letter provides no indication that DEHP knew of, or did anything about, the more than five years of serious pollution. The evidence is that it took us, the public, to detect the non-compliance and bring it to your attention.

Given the seriousness of the pollution and the utter failure of the existing regulatory regime to prevent it over at least five years (and probably more like 35 years), we feel a civic duty to facilitate a broader public discussion of the issue. Therefore, we intend to publish your response in the Townsville and Brisbane media, where no doubt the public will be able to judge for themselves how serious the Queensland Labor Government is regarding radioactive and heavy metal pollution of a major Queensland waterway.

Should your letter provide adequate responses to our questions, in a timely manner by the end of this week, we will of course transmit these to the public.

Yours sincerely,

David Sewell

Spokesperson for CAMBL Citizens Against Mining Ben Lomond

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Attachments			
 Dear Minister Miles 	.docx (103.94 KB)		
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		,	
	4		

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Yours sincerely,	
David Sewell	(\mathcal{S})
Spokesperson for	r CAMBL Citizens Against Mining Ben Lomond
V/(<u> </u>



•	Re: Ben Lomond
From:	Sch 4 CTPI David Sewell (david.sewell
То:	mangocube6@yahoo.co.uk;
Date:	Monday 19 Sentember 2016, 7:51

Thanks Mark

Sent from my iPhone

On 19 Sep 2016, at 7:43 AM, Mark Bailey <mangocube6@yahoo.co.uk> wrote:

Hi Dave... Will be discussing both yr emails with my staff today. Mark

Sent from my iPhone

On 18 Sep 2016, at 8:50 PM, David Sewell <david.sewell

Sch 4 CTPI

wrote:

Dear Minister Miles.

Thank you for your response to our letter of 8/08/2016.

Let me start by emphasizing the high level of concern that we, as local residents, have about the serious pollution of nearby waterways with heavy metals and radioactive compounds for many years by the Ben Lomond leaseholder, which DNRM and DEHP have allowed to continue. For us, this situation is urgent, and constitutes a threat to public health.

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Yours sincerely,	
David Sewell	
Spokesperson for CAMBL Citizens Against Mining Ben Lomond Sch 4 CTPI	
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Sch 4 CTPI	\rightarrow
N/R	~
<dear miles.docx="" minister=""></dear>	
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7/5/2018 Print window

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Sch 4 CTPI

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From: notification+o=_2cfsy@facebookmail.com

To: mangocube6@yahoo.co.uk

Date: Thursday, 22 September 2016, 5:51:47 pm AEST

facebook

Sch 4 CTPI

tagged you and 2 others in a post. You can choose if you want to add it to your Timeline.

Sch 4 wrote: "Hon Mark Bailey, Minister for TMR visiting Lockhart, we spoke to our Road Gang Supervisor (Solly) about the beach project and also visited the Old Site Road works. Great to see Ryan and Paul (team) taking on some local business opportunities, they're delivery our QRA project to Old Site this year. With support from Council workforce Massey and others!"

Remember: Posts you hide from your Timeline may still appear in News Feed and elsewhere on Facebook.

Learn more about tagging on Facebook.

Review Post

This message was sent to mangocube6@yahoo.co.uk. If you don't want to receive these emails from Facebook in the future, please unsubscribe.

Facebook, Inc., Attention: Community Support, Menlo Park, CA 94025

Subject: Curriculum Vitae

From: Mike Reynolds Sch 4 CTPI

To: mangocube6@yahoo.co.uk;

Date: Sunday, 25 September 2016, 14:03

Good afternoon Mark

I confirm my interest in becoming a Director of the Port of Townsville Corporation. As you may be aware, I have had a significant corporate history and involvement with the Port which would be most useful as the Port continues to grow and face challenging times.

Please find attached my Curriculum Vitae.

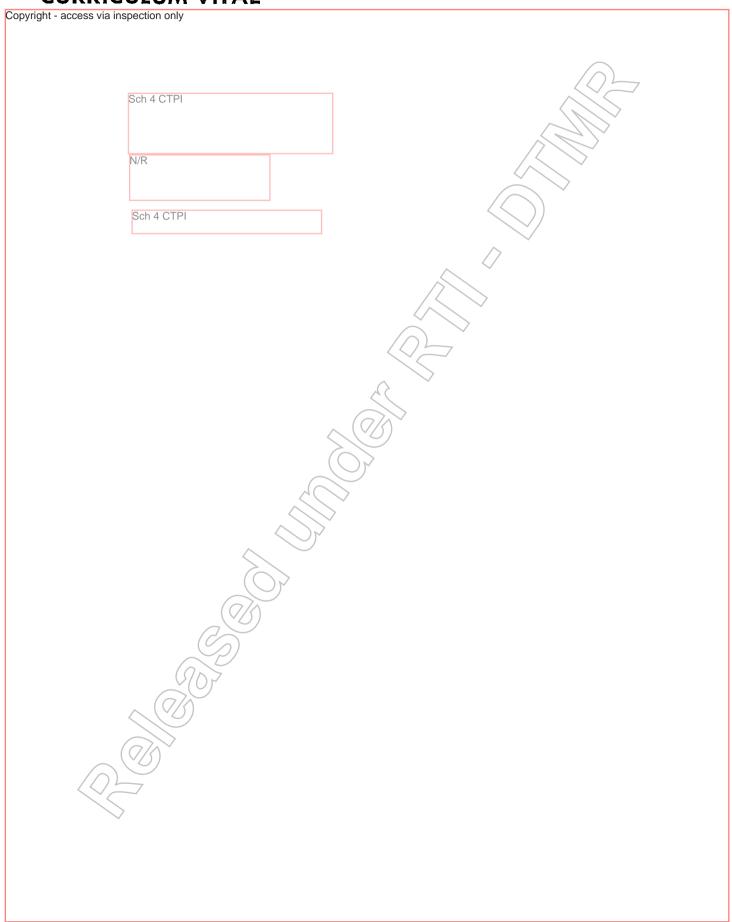
Kind regards

Mike Reynolds

Attachments

• Curriculum Vitae Mike Reynolds September 2016.doc (479.50 KB)

CURRICULUM VITAE













7/5/2018 Print window

From: Denise.Spinks@ministerial.qld.gov.au

To: mangocube6@yahoo.co.uk

Date: Wednesday, 28 September 2016, 1:17:37 pm AEST

Checked in with Terry

Denise Spinks Chief of Staff

Office of the Minister for Main Roads, Road Safety and Ports

Minister for Energy, Biofuels and Water Supply

P 07 3719 7300 MN/R

Capital Hill Building 85 George Street Brisbane QLD 4000

PO Box 15185 City East QLD 4002

----Original Message----

From: Mark Bailey [mailto:mangocube6@yahoo.co.uk]

Sent: Wednesday, 28 September 2016 11:59 AM

To: Denise Spinks < Denise. Spinks @ministerial.qld.gov.au >

Subject: South Australia braces for storm that could be most severe in 50 years

This looks potentially very bad - thinking we should talk to EQ re having power crews on standby if needed in response? M https://linkprotect.cudasvc.com/url?a=https://www.theguardian.com/australia-news/2016/sep/28/south-australia-braces-for-storm-that-could-be-most-severe-in-50-

years%3fCMP%3dshare btn link&c=E,1,EzFN0Wh2LvRl5g0c7kGzDHAwPuU7P G-

8MtKuwtuGYqD1n1pDXboHp349mSbMqie8r0JMj2e-X4TvemVr2UKEsyST_UHW0GBMgihpQ,,&typo=1

Sent from my iPhone

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Subject: ^_Fwd^_: ^_Climate^_ ^_Council^_

From: Mark.Bailey@ministerial.qld.gov.au

To: mangocube6@yahoo.co.uk

Date: Friday, 30 September 2016, 10:30:31 am AEST

Sent from my iPhone

Begin forwarded message:

From: "Zoe Russell" < Zoe.Russell@ministerial.qld.gov.au>

To: "Mark Bailey" < Mark.Bailey@ministerial.qld.gov.au >, "Denise Spinks"

<Denise.Spinks@ministerial.qld.gov.au>, "Tam van Alphen" < Tam.VanAlphen@ministerial.qld.gov.au>,

"Amy Hunter" < Amy. Hunter@ministerial.qld.gov.au>

Subject: Climate Council

Thinking of sharing this vid on Min's FB page. It's a great wrap-up. Any objections?

https://www.facebook.com/climatecouncil/

[image1.PNG]

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image1.PNG 233kB

Subject: Meeting

From: David Sewell Sch 4 CTPI

To: mangocube6@yahoo.co.uk;

Sch 4 CTPI

Sch 4 CTPI

bill@laingex.com;

office@nqcc.org.au;

Date: Friday, 30 September 2016, 18:20

Hi Mark,

Just FYI I have requested through Coralee O'Rourke's office for a meeting with you, the Environment Minister and the Mines for Minister during your visit to Townsville next week. Hoping we'll be able to catch up to discuss the situation.

Sent from my iPhone

Subject: Re: south Australian power

From:

Sch 4 CTPI Paul Lucas

To:

mangocube6@yahoo.co.uk;

Date:

Sunday, 2 October 2016, 13:15

Just be really careful that they don't end up foisting a new regime on you (ie QLD) that makes our customers pay for network or reliability insurance (eg paying for SA or Vic old coal plant to be available even when you don't need it)

They will:

- 1. Try and spread costs on QLD and NSW
- 2. Try and fuck QLD government owned coal plant (the opposite to what they should do). Swan did that to us previously under Rudd do don't think federal labor will protect you. 3. They'll try and hoodwink you with green rhetoric. Think of one thing in any assessment--> what will do for QLD domestic power prices. That's the political bottom line.

Kind Regards
Paul Lucas

On 2 Oct. 2016, at 11:18 am, Mark Bailey < mangocube6@yahoo.co.uk > wrote:

Thx Paul. Def systematic issue for them. M

Sent from my iPhone

On 1 Oct 2016, at 9:20 PM, Paul Lucas

> wrote:

https://medium.com/@andynehl/why-did-so-many-of-south-australias-electricity-transmission-towers-collapse-1604702516b1#.p474gceii

finally someone writes a bit of sense (patting aside the privatisation red herring)

mind you, I suspect those towers were built fit for purpose in an area that would never expect to see even sub-cyclonic winds.

And I very much doubt that (in a declining energy load state) that those tow ers were installed post 1999 when ETSA was privatised.

Yours in Network

Subject: There are two issues the South Australian blackout should make us think about | Tony Wood | Opinion | The Guardian

From: Paul Lucas Sch 4 CTF

To: mangocube6@yahoo.co.uk;

Date: Monday, 3 October 2016, 12:00

This is the guy you should talk to as I've indicated

https://www.theguardian.com/commentisfree/2016/sep/30/there-are-two-issues-the-south-australian-blackout-should-make-us-think-about?

utm_source=esp&utm_medium=Email&utm_campaign=Politics+AUS&utm_term=193080&subid=7983662&CMP=ema_792

Kind Regards
Paul Lucas
N/R

Subject: Re: 20 new jobs for My Job Search Paul Lucas Sch 4 CTPI From: To: mangocube6@yahoo.co.uk; Date: Friday, 21 October 2016, 8:28 Quite honestly you guys have so got your fingerprints over energy GOCs and policy that you have to have it work. If it does you'll be heroes. If not..... Remember the media shift goal posts on you. The McKinsey Greenhouse Cost Curve illustrates that power generation is far more problematic than emissions reduced in the building and transport sector. Power prices will go up. But that's not the point. We need cleaner energy. So a narrative that prices won't go up is really dangerous You are much better off going on another demand side campaign. Be at the forefront of a campaign to ban halogen bulbs and also a new program of led bulb grants for homes. I'm yet to see a State owned corporation like Powerlink than is more nimble than the private sector. Look at Cairns Airport (massively overcapitalised under Government ownership - including my time) compared to Gold Coast. This is a conversation to have another time. Kind Regards Paul Lucas On 21 Oct. 2016, at 7:50 am, Mark Bailey <mangocube6@yahoo.co.uk> wrote: Powerlink facing new and vigorous competition from privatised NSW networks in unregulated market so need to refocus to prevent being muscled out. M Sent from my iPhone Sch 4 CTPI On 21 Oct 2016, at 6:26 AM, Paul Lucas wrote: Thought you might be interested in this. Powerlink want a "business development manager"???? Part of a business development team? They are a regulated business! They are not really able to be entrepreneurial except for perhaps running s bit of fibre along the lightning wires. Sch 4 CTPI

Paul

Begin forwarded message:

From: "SEEK JobMail" <jobmail@s.seek.com.au>

Date: 21 October 2016 at 1:22:32 am AEST

To: Sch 4 CTPI

Subject: 20 new jobs for My Job Search



Hi Paul.

Check out **20** new jobs. Update your SEEK profile to get more opportunities tailored for you.

Featured

Chief Executive Officer-MWAC

Meelup Management

Geraldton, Gascoyne & Midwest

Featured

Manager

Carers Plus

Perth

Director of Marketing, Asia Pacific Cochlear Limited.

Sydney, Ryde & Macquarie Park

Use your Consumer and 82B Marketing Leadership experience to drive Marketing excellence across Cochlear APAC

Cochlear*

Australian & New Zealand General Manager -Industrial Automation Roc Consulting

Sydney \$200,000 - \$250,000 Neg.

GLOBAL LEADER WITHIN INDUSTRIAL AUTOMATION - \$200,000 - \$250.000 SALARY PLUS STANDARD EXTRAS



General Manager - Business Development Powerlink

Brisbane, Northern Suburbs

This is an exciting opportunity to develop and grow Powerlink's newly formed Business Development Group.

Senior Mining Engineer

Rio Tinto

Broome & Kimberley

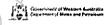
Opportunity to provide technical and operational support for the Underground Mining Department to deliver Business Plan targets

Regional Inspector of Mines

Department of Mines and Petroleum

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Inspirational leader with extensive mining experience, accountable for multidisciplinary teams for regulatory functions and leading practice.



Principal UG Mining Engineer

Thiess Pty Ltd

Perth, CBD, Inner & Western Suburbs

Perth based Principal UG Mining Engineer required. Must have extensive UG Mining experience along with strong technical expertise. Apply New.

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Davidson Executive

Brisbane, CBD & Inner Suburbs

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Transdev Australasia Pty Ltd

Sydney, CBD, Inner West & Eastern Suburbs

- Full Time - Based in Pyrmont - Responsible for projects across NSW and QLD

Supply Chain Leader- Sibelco Australia & New Zealand Sibelco Australia Limited

Sydney, North Shore & Northern Beaches

We are recruiting for a Regional Supply Chain Leader, to be based out of our North Sydney or South Brisbane locations

Procurement Advisor

Hays Procurement

Sydney, CBD, Inner West & Eastern Suburbs



Procurement advisor job available for 6 months in Sydney CBD.

Analysis Leader, Energy Markets

EnergyAustralia Services Pty Ltd

Melbourne, CBD & Inner Suburbs Very attractive & competitive annual salary + STIs

Senior level opportunity to join a very well regarded team in the industry



Chief Operating Officer

Department of Transport and Main Roads

Brisbane, CBD & Inner Suburbs

You will lead the PSBA through a commitment to the provision of a high standard of impartial evidence-based advice to the PSBA Board.

Supply Chain Leader- Sibelco Australia & New Zealand Sibelco Australia Limited

Sydney, North Shore & Northern Beaches

We are recruiting for a Regional Supply Chain Leader, to be based out of our North Sydney or South Brisbane locations

Boilermaker

Downer EDI Limited

Geraldton, Gascoyne & Midwest

Downer EDI Mining is currently seeking an experienced Boilermaker to join the team at Karara

Mine Production Superintendent

AGL Energy

Traraigon & La Trobe Valley

Fantastic opportunity to utilize your senior mine production experience in the southern hemispheres largest open cut brown coal mine

Superintendent Maintenance Mobile Trucks (SRM) BHP Billiton

Mackay & Coalfields

Reporting to the Maintenance Manager, this critical leadership position will be based at Saraji Mine

Superintendent Maintenance Execution (SRM) **BHP** Billiton

Mackay & Coalfields

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Downer EDI Mining is currently seeking experienced Heavy Duty Fitters to join the team at Karara

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7/5/2018 Print window

Subject: RE: ^_GetUp^_! ^_2^_/^_2^_ ^_fyi^_

From: Tam.VanAlphen@ministerial.qld.gov.au

To: mangocube6@yahoo.co.uk; Denise.Spinks@ministerial.qld.gov.au; Zoe.Russell@ministerial.qld.gov.au

Date: Wednesday, 12 October 2016, 4:13:58 pm AEST

Panel recommends against legislating..

----Original Message----

From: Mark Bailey [mailto:mangocube6@yahoo.co.uk]

Sent: Wednesday, 12 October 2016 4:13 PM

To: Denise Spinks < Denise. Spinks@ministerial.qld.gov.au >; Tam van Alphen

< Tam. Van Alphen @ministerial.qld.gov.au>; Zoe Russell < Zoe. Russell @ministerial.qld.gov.au>

Subject: GetUp! 2/2 fyi

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Subject:	My parent's traffic dilemma + Adriene's exhibition	
From:	Sch 4 CTPI	
To:	mangocube6@yahoo.co.uk;	
Date:	Tuesday, 25 October 2016, 9:43	
G'day Ma	ark, how's it going?	
in Sch 4 CT could loo issues ma have been	I've attached all the info as a separate doc ok into it further it would be greatly appreciated by any times to both council and Dept for Main Roads n made. My father Sch 4 CTPI the current arrangements (see attachment for more	sument outlining the pertinent issues, so if you all. As I said, residents have mentioned these, and feel they are being ignored as no cahnges, and is constantly
attached a	arate issuethe lovely Adriene Strampp is having Hill. Sch 4 CTPI and I will be in attendance, along was catalogue - the work looks as gorgeous as always ion of being told that you might be out of townlet all get together again.	. Are you in town this weekend? I have a vague
Anyway,	many thanks again for you help re the traffic issue	
BTW, we	e loved your rebuttal re the Liberal's ridiculous resp	onse to the SA power outages!
Hope all's	s well with you and yours,	
regards,	(Op	
Sch 4 CTPI		
ch 4 CTPI		

Attachments

• Sch 4 CTPI Crossing and speed limit reduction..docx (193.87 KB)

• BRISBANE EXHIBITION.pdf (247.73 KB)

Here's some rather more detailed inf	formation regarding the dangerous
pedestrian crossing in Sch 4 CTPI	near where my parents live
As I told you, my father Sch 4 CTPI	
3014 0171	, so his observations and concerns
come from an informed perspective.	
Having used this crossing myself sev	veral times, I can also confirm that there are
	fact, it is considered so dangerous by
	ise very easy walking distance to the Coles
supermarket) that they are choosing t	
shopping, rather than use the crossing	g!
The points most bitterly complained	about are:
1) The speed limit along Sch 4 CTPI	
 speed limit for a shopping pred would appear to be in keeping shopping centres in other parts towards reduced speed limits. The current speed limit of 60 F come to a safe halt when a ped refer to point 3) for further clarand it can be quite hair-raising over by a speeding motorcycle misses' whilst using this crossis more) on either side of the cross 40 KPM limit. To further facilitate safety at the 	, and other residents all have tales of 'nearing. A section of road (e.g. 200 meters or ssing would therefore benefit from the safer his crossing, traffic calming methods could
pedestrian traffic at all times of gives the impression	f the day. Currently, the generous width of ession to drivers that this is <i>not</i> a
residential area, when in fact it	. 18.
• There is inadequate signage on	the approach to the Sch 4 CTPI out indicating that the speed limit is about

to drop from 100KPH, and that drivers are about to enter a shopping precinct and residential area. This in itself contributes to drivers entering
at speeds much greater than the current 60 KPM limit
(which all agree is too high a limit anyway,) and is one of the reasons
why drivers then have difficulty in coming to a stop at the pedestrian
crossing, a couple of hundred meters from the roundabout.
crossing, a couple of number meters from the roundabout.
2) The positioning of the crossing itself:
• The pedestrian crossing is situated north o which means
that shoppers wishing to shop at the main shopping centre – which houses
Coles, the Post Office, and the bulk of Sch 4 CTPI shops — have to
then cross over Sch 4 CTPI to do their shopping. The issue here is
again one of safety: The speed limit for Sch 4 CTPI is also 60 KPM,
and there is no pedestrian crossing here. So, you have residents who do
the right thing by crossing at the Sch 4 CTPL Crossing, only to be
potentially knocked over as they try to cross Sch 4 CTPI . Either the
crossing needs to be moved to the other side of Sch 4 CTPI (ie closer
to Coles) or else a second pedestrian crossing needs to be installed on
Sch 4 CTPI
3) The speed limit immediately preceding :
5) The speed limit immediately proceding
• Sch 4 CTPI is easily accessed by turning off the Sch 4 CTPI
onto Sch 4 CTPI, which takes you all the way to Sch 4 CTPI
Sch 4 The ground lives to those Sch 4 CTPl in 1001r Thorn in
CTPI The speed limit along is fixed by the drivers that at the round shout the speed
minimal signage indicating to drivers that at the roundabout the speed
limit is about to drop to 60 KPM. As a result of this, motorists drive
through the roundabout still in "100 KPM mode" and continue to drive at
speed, hence the difficulty in slowing down at the pedestrian crossing
when someone dares to step out. There is an urgent need for prominent
signage to be erected on the approach to the Sch 4 CTPI roundabout, indicating to drivers that they are about
to enter a pedestrian and shopping zone. However, even with such
signage, it is simplistic and unrealistic to expect drivers to suddenly drop
their speed from 100 KPM, and so to this end it would be more
appropriate that the speed limit be significantly reduced on the approach
$to^{\frac{\text{Sch 4 CTPI}}{\text{Note of the supposed to when they are actually already } on}$
Sch 4 CTPI . Further traffic calming measures would also help drivers
to make this transition.
4. 1-41:4-4

Anecdotally, several residents have raised these safety concerns either with the local council, the Department of Transport and Main Roads, or both. They feel they are being ignored or not being taken seriously, and fear that nothing will change until someone is either seriously injured or killed as a result of either one or both of these two safety issues. and its surrounds have recently experienced a In addition to this, growth in permanent residents and new housing estates, not to mention a significant growth in temporary residents employed by local industries such as the Sch 4 CTPI This increased population has led to an increase in traffic volume, and as such local residents feel this precincts' speed re-zoning is now long overdue. As with most dubious crossing arrangements, those most at risk are the elderly, those with a disability, and small impulsive children, I, however, am none of these, and even I feel vulnerable using this crossing! If there is any further information I can give you please let me know. sent me below: I have included an image Sch 4 CTPI

Pedestrian access to Coles Supermarket

Many thanks for taking the time to look into this!

Kind regards,



Brisbane exhibition at Jan Manton Art opening next week.

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View catalogue here.

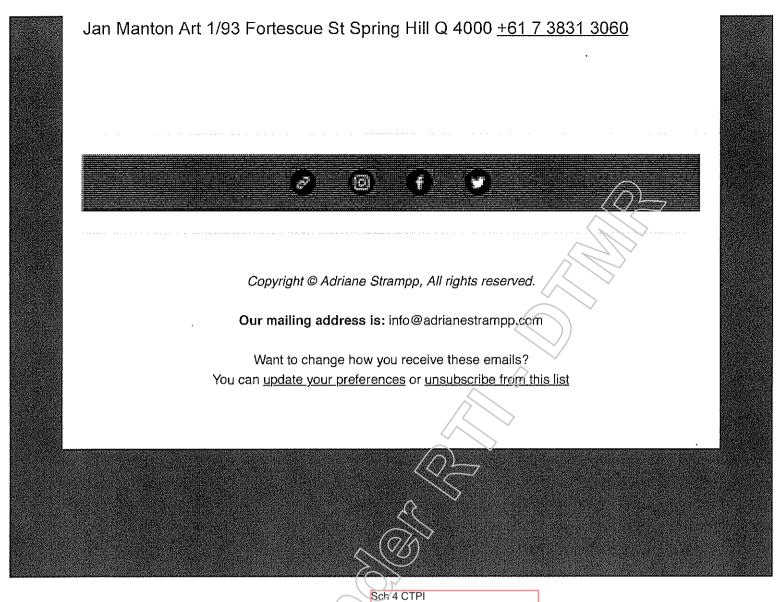
Adriane Strampp

SHADOWLANDS

26 October - 19 November

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135-05868 - release.pdf - Page Number: 110 of 116



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Adriane Strampp Studio · 18A/236-248 Brunswick St · Fitzroy, Vic 3065 · Australia



7/5/2018 Print window

Subject: ^_CBD^_ ^_BUG^_

From: Mark.Bailey@ministerial.qld.gov.au

To: mangocube6@yahoo.co.uk

Date: Wednesday, 26 October 2016, 3:31:43 pm AEST

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26102016152241-0001.pdf 94.3kB



Brisbane Central Business District Bicycle User Group CBD BUG

GPO Box 2104, Brisbane 4001

convenors@cbdbug.org.au 0423 974 825 www.cbdbug.org.au

Office of the Lord Mayor GPO Box 2287 Brisbane Old 4001

My dear Lord Mayor

The North Brisbane Bikeway (stage 1B) officially opened on Wednesday 14 September 2016. It is an excellent facility with what appears to be Brisbane's first priority road crossing for people riding bikes, and the Department of Transport and Main Roads (TMR) path terminal treatment at either end. These are both commendable treatments based on TMR's Technical Note 128 "Selection and Design of Cycle Tracks".1

The BUG has previously communicated with you about these subjects (concerning BCC facilities: Archer Street in Toowong and banana bars)² recommending the TMR approach, with limited success.

On a related note, we are delighted that "floating bus stops" as in the Technical Note are to be implemented in the forthcoming Stanley Street protected bike lane project, but dismayed that BCC explicitly rejected the concept in the Kingsford Smith Drive (KSD) project.3 In the BUG's view this will render the KSD "bike lanes" (between Theodore St and Racecourse Rd) wedged between a bus lane and traffic lane with a 60 km/h speed limit unsuitable for "8 to 80" riders and useless for all except "fast and fearless" riders. This is again in defiance of TMR's guidelines which show that separated cycle tracks should be provided where posted speed limits are 60 km/h. The design also defies Austroads guidelines - "Cycling Aspects of Austroads Guides 2014" Figure 2.2 on "Separation of cyclists and motor vehicles by speed and volume" guidelines indicate that with a speed limit of 60 km/h and a volume of traffic of more than 5,000 vehicles per day the appropriate facility is "separate paths", not "bicycle lanes or shoulders" or "mixed traffic". Kingsford Smith Drive average annual daily traffic figures are currently about 65,000 vehicles per day with 15% being heavy vehicles.

By refusing to provide separated cycling facilities in new build locations Council will continue to miss lowered active transport targets such as the already missed 2.5% of trips by bike in 2016, and 5% of trips by bike in 2026.

We are also concerned about the total lack of progress in lighting on the Grammar Shared Path. A petition containing 185 signatures (170 electronic and 15 paper) concerning this issue was presented to Council in September 2015.⁵

Advocacy

Advice

Action

¹ http://www.tmr.qld.gov.au/business-industry/Technical-standards-publications/Technical-Notes/Fraffic-engineering.aspx

http://www.cbdbug.org.au/wp-content/uploads/1970/01/0/CBD-BUG-letter-to-BCC-LM-re-archer-street-20140707.pdf

http://www.cbdbug.org.au/wp-content/uploads/1970/01/0/CBD-BUG-letter-BCC-LM-re-Banana-Bars-20150611.pdf

³ http://www.cbdbug.org.au/wp-content/uploads/1970/01/0/CBD-BUG-From-LM-KSD-20160629.pdf

⁴ https://www.onlinepublications.austroads.com.au/items/AP-G88-14

⁵ http://www.epetitions.brisbane.qld.gov.au/petition/view/pid/272

The response (20 January 2016, petitions CA15/802356 and CA15/860110) stated:

The location of this route provides significant complexities to the installation of lighting with consultation and formal agreements needing to be reached with property owners including Queensland Rail and the Brisbane Girls and Boys Grammar Schools.

Council recognizes this path is an important commuter route and it is identified as a primary cycle route within Brisbane City Plan 2014. Primary routes provide key lines in the bicycle network and are therefore Council's priority to ensure they are of suitable standard. ...

As such, this route has been identified as a high priority lighting project to be completed in stages as funding is available and integration with adjoining land holders is feasible.

Unfortunately, this response was virtually superfluous. It is similar to trite phrases offered verbally by Council officers in explanation such as "if this was easy it would have been done by now".

There is no difference from the petitioners' perspective between Council doing nothing and the (now repetitive and quite tiresome) response to petitions that Council "supports the project but funding has already been allocated for bikeway projects for the current financial year".

We also note that the path is a shared path, not a dedicated bikeway, and any lighting improvement would benefit both people riding and people walking. There have been several incidents since the petition closed, most recently a commuter who broke his arm slipping on gravel there in June 2016 and an incident involving multiple people riding bikes falling after one slipped on leaves (sustaining concussion) in August 2016.

Communication with the BUG and petitioners on this issue has been non-existent since this time. This is deeply disappointing, given Main Roads Minister Mark Bailey's continued personal involvement on this issue, with two letters of support sent to you. The North Brisbane Bikeway stages 2, 3B and 3C are due for completion in late 2018. These excellent facilities with priority bike crossings will attract more riders. But the bikeway cannot achieve its full potential without lighting in the Grammar Path area. The issue will not "go away" and the safety issues around the Grammar schools will only worsen with increasing traffic.

As the State Government supports the lighting project, this leaves negotiation with the Grammar schools as the only sticking point; but it is inexplicable that with the adjacent Normanby Pedestrian Cycle Link opening in September 2007 that nothing has been achieved in the nine years since.

Are you able to provide any substantive update on this issue?

I look forward to your response.

Yours faithfully

Dr Richard Bean Co-convenor Brisbane CBD BUG

22 October 2016

cc Mark Bailey cc Adrian Schrinner cc Vicki Howard

⁶ https://www.brisbane.qld.gov.au/sites/default/files/20160421 - cclo - council - minutes - post recess - 2 feb 2016.doc

Subject: ^_M1^_ ^_info^_

From: Sch 4 CTPI

To: mangocube6@yahoo.co.uk

Date: Friday, 28 October 2016 07:53:02 AM AEST

Hi Mark

Sorry for the delay in getting this to you but I've had my email system crash on Monday and it took until yesterday to get it back. I'm sending this via an unlinked account.

I have more to send but haven't yet got access back to the incomings from our mutual friend at Burleigh. cheers

Sch 4 CTPI

The federal National Land Transport Act 2014 does not actually make a distinction between 'urban" vs "metropolitan" roads. In 2014 the M1 was declared part of the National Land Transport Network, and is therefore part of the National Highway Upgrade program, providing for the 80:20 federal: state funding split as occurs on other parts of this network. This has been legislated:

https://www.legislation.gov.au/Details/F2015C00261 and the network shown

thus: http://investment.infrastructure.gov.au/whatis/network/

The National Partnership Agreement (NPA) needs to be read in conjunction with the above: http://investment.infrastructure.gov.au/publications/policies/pdf/NPA 30 October 2014.pdf

This provides some further guidance, specifically around funding and administration.

None of these documents makes any distinction between road types vis the level of funding. The classification of roads in this sense is therefore irrelevant.

The National Land Transport Determination 2014 specifically notes the roads part of this network, referencing the Gold Coast M1 thus: "The Pacific Highway from its junction with the New England Highway at Hexham, New South Wales, to its junction with Ewingsdale Road, then the Pacific Motorway to its junction with the Gateway Motorway at Eight Mile Plains, Queensland". This is noted under the heading "non-urban" to delineate roads in capital cities from links between them. There is no technical aspect to this nomenclature.

What is interesting about this determination is that the entire corridor is noted in the one listing, with the NSW section already attracting 80:20 federal funding....

Historically speaking, the 50:50 arrangement for upgrading the section of the M1 from Springwood to the Gold Coast can be considered a historical artefact, as at the time this was not designated part of the national highway network and traffic was considerably less. Since the 2014 legislation and designation, the M1 is noted by the federal government as being part of the National Land Transport Network.

Subject: RE: ^_M1^_ ^_info^_

From: Denise.Spinks@ministerial.qld.gov.au

To: mangocube6@yahoo.co.uk

Date: Monday, 31 October 2016 09:35:11 AM AEST

Great - thx. I will check out informally first then discuss,



Denise Spinks

Chief of Staff

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