# Rathmines

PROGRESS ASSOCIATION



DOC ONE

26<sup>th</sup> October 2012

Att: Christine Chapman

NSW Planning, Mining and Industry

23 - 33 Bridge Street Sydney NSW 2000

Re: Environmental Assessment Addition to Awaba Waste Management

Facility Application No. 10\_0139 Awaba Landfill Extension

Local Government Area of The City of Lake Macquarie.

Submission by Rathmines Progress Association with reference to possible subsidence of proposed mining activities by others.

#### Who We Are

The Rathmines Progress Association has been in existence since 1945. The Association covers the Suburbs of Rathmines, Fishing Point, Balmoral and Buttaba.

#### What We Stand For

To quote from our constitution:

Aims and Objectives.

The Rathmines Progress Association and its members shall individually and collectively interest themselves in and work for the good of the community in general and provide and/or maintain Community Amenities.

Yours Faithfully

William McArthur Acting Hon. Secretary 02 4975 3277 mcarthur.julie@bigpond.com Postal Address: THE SECRETARY 43 Cheapside Street Rathmines NSW 2283

# Rathmines

# **PROGRESS ASSOCIATION**



Postal Address: THE SECRETARY 43 Cheapside Street Rathmines,

N.S.W. 2283

10<sup>th</sup> October 2012

Cardno(NSW/ACT)Pty Ltd

Level 9, The Forum,

203 Pacific Highway

St Leonards N.S.W 2065

Dear Sir/Ms

# Drop-in Community Information Session Wednesday 10 October 2012 4pm to 8pm Councillors Workroom Council Administrative Building 126-138 Main Road, Speers Point

# Questions

1. Why were other disused tips(Kilaben Bay & Dorrington Rd) present in the vicinity of Kilaben Bay not mentioned in the Environmental Assessment of Additions to Awaba Waste Management Facility?

The Rathmines Progress Association (RPA) understands that Kilaben Bay Tip (approx 475,000M<sup>2</sup>. It was never capped properly and water continually leaches from the tip after rain. The only thing covering it is lantana vine and spots of morning glory vine. It has very steep batters (approx 1:1.5). The upper areas have been left in a disgraceful condition and dangerous state with sharp garbage and broken bottles sticking out all around the very steep batters. This site is now classified a Crown Land Reserve. At the base of the garbage mound is heavy dis-colouration, still pools in the upper section had an absence of the normal healthy pond e.g. mosquito wrigglers, water boatmen, tadpoles or frogs. They do not support animal life to the naked eye. We enquired of the head of *Landcare*, if the tea trees growing out of the still water would deter animal life and was told no. The dis-coloured area should be tested by the Environmental Protection Authority as a matter concerning public health. At lower the tidal interchange area there was proof of small fish and healthy movements in the water.

- 2. Dorrington Rd Tip (approx. 725,000) which also drains into Kilaben Bay and is intended to be longwalled (LW110 &LW111) also. Please advise if this tip was capped when closed.
- 3. The RPA has had a number of meetings with Centennial coal regarding the Newstan Life Extension and Subsidence Management Plan Longwalls 101 to 103 going back to 8th March 2012 where Kilaben Bay and Dorrington Rd tips were mentioned and written issues papers left with them. It is very concerning that as LMCC staff/consultants have been in contact with Centennial Coal for around at least twelve months. Please advise if any of this information was received by you.
- 4. The EIS did not disclose asbestos disposed of at this facility. It is understood that all asbestos submitted to Awaba Waste Facility (AWMF) is required to be doubly wrapped and taped. It is also understood that there is a register kept of asbestos weight delivered, name and address of person or company bringing asbestos to the tip. Please supply total quantities for the last two years.
- 5. Please give timeline construction of proposed 2.5 km sewer pipeline from AWMF to Rathmines No.6 WWWPS. i.e. before or after longwall 110 & 111 is completed.
- 6. It is the understanding of the RPA that in the event of an environmental catastrophe from leachate spill into the local creeks or Kilaben Bay whether from the AWMF and/or privately owned pipeline, the onus of proof in on Lake Macquarie City Council(LMCC) (us as ratepayers) to prove in the first instance that it was not LMCC's fault. Even though there has been longwalling under either LMCC asset. Is this correct.
- 7. It is understood that significant quantities of gas are released upon longwalling. Please advise if the LMCC AWMF methane gas capture and energy generation on site has any dangerous conflict with released gas from the longwall underneath.
- 8. Two of our members visited the information session held in LMCC Council Chambers on 24/05/2012. The attached Community Forum Questionnaire attached asked about environmental degradation of Stockyard Creek. To which there was not a follow up. In the Subsidence Management Plan from Centennial Coal there were issues of reference is made to Appendix 10 Surface Water Impact Assessment GHD Page 72. Almost the whole page is indicating higher than ANZECC trigger results for Lords, Stockyard and Kilaben Creeks for levels of aluminium, iron, chromium, copper, and zinc. Please advise if you were aware of this.
- 9. Please advise of the AWMF of final submission final public submission date to NSW Planning.

10. Could you please advise your email as there may be more questions as the RPA examine AWMF Environmental Assessment?

Finally by the geographical location of the RPA, its members consider that we are stakeholders in this process.

Our members and communities, swim, fish, eat, sail, and generally enjoy Kilaben Bay and the broader waters of Lake Macquarie. We respectfully request to be included in the information streaming between Lake Macquarie City Council and Centennial Coal with reference to this Environmental Impact Assessment

Yours Faithfully

/ W McArthur

Acting Secretary

10/10/201/

**Awaba Alternative Waste Treatment (AWT) Facility Environmental Impact Statement Community Forum Questionnaire** Community Forum, 24 May 2012 Committee Room, Lake Macquarie Council Administration Building, 126-138 Main Rd, Speers Point Cardno stockstord (Stary CK.) Question 1: What do you think of LMCC's plans to build an Alternative Waste Treatment (AWT) Facility on the parcel of land adjacent to the current landfill site? Do you have alternative suggestions? las wai seta to hat are your key concerns about the proposal? Please provide any additional comments you consider relevant: an Bellevie ANTACH MEATER 13

# DOC THREE

This is a copy of the submission by Rathmines Progress Association (RPA) with reference to the current Subsidence Management Plan (SMP) Newstand Coal Mine

This document outlines our concerns to the Environmental Impact by this Long Wall Mining. These concerns we believe, reflect directly to the proposed additions to Awaba Waste Management Facility

COPY

43 Cheapside Street

Rathmines,

N.S.W. 2283

21st September 2012

Director of Environment and Sustainability,

NSW Department of Trade, Investment, Regional

Infrastructure and Services: Division of Resources and Energy

P.O. Box 344

Hunter Region Mail Centre

N.S.W. 2310

Dear Sir/Ms

Submission to Subsidence Management Plan (SMP) Development and Extraction of Longwall Panels LW 101 – 103 within Mining Lease ML1452, New Stan Coal Mine Extension situated in the Local Government Area of the City of Lake Macquarie

## Who We Are

The Rathmines Progress Association has been in existence since 1945. The Association covers the suburbs of Rathmines, Fishing Point, Balmoral and Buttaba.

# What We Stand For

To quote from our constitution:

Aims and Objectives.

The Rathmines Progress Association and its members shall individually and collectively interest themselves in and work for the good of the community in general and provide and/or maintain Community Amenities

# **Background History of Mining Lease ML1452**

- 1 The Association has had a long history in dealing with underground mining proposals in this area.
- 2 In the late 1990's, Powercoal originally held Authorisation A285 and proposed to extract coal from under large tracts of urban development in our area. Several meetings were held with Powercoal representatives, Umwelt (Powercoal's Environmental Consultants) and Rathmines Progress Association's Strategy Committee. The proposal raised considerable community angst and a community meeting was organised on 25 March 1998 at Rathmines Community Hall. Powercoal had planned to attend and address the community's concerns directly and take part in a debate about mining under urban areas. Both parties agreed to have retired Police Commander Mr. Ron McSporran as an independent Chairman for the debate.
- 3 Invitations were made to all local residents, all Lake Macquarie City Councillors, The Mine Subsidence Board, the press and any other interested parties.
- 4 A few days before the debate was scheduled to occur the Hon. Jeff Hunter MP rang this Association and advised that Power coal had withdrawn from portion of A285 and mining was going to be limited to the border of Main Road 217 (Wangi Road) which lies to the west of the built up areas.
- 5 Although the proposed mining would not be going ahead, Powercoal still attended the community meeting, with over 200 in attendance.
- 6 Please see **Attachment 1** press clipping and **Attachment 2** Letter from Mr. Darryl Stevenson for Chief Coal Geologist of Department of Mineral Resources, dated 15 April 1998.

# **Current Position on Newstan Mine – Extension of Mining Project**

7 On 24 January 2012 an article by Damon Cronshaw appeared in Newcastle Herald stating that "*Centennial Coal was planning to expand its Newstan mine, in west Lake Macquarie*". A copy of that article can be found in **Attachment 3**.

- 8 As a consequence of this Association contacting Centennial Coal's General Manager of External Affairs on Monday 30 January 2012 re the newspaper article, an information letter (dated 01/02/12) was letter-box dropped to a number of areas to be affected by the proposed mine subsidence. Please see **Attachment 4**.
- 9 The letter contained no detail about the proposed mining under Rathmines or surrounding areas and most people put it in the bin. At a meeting held between this Association and Centennial Coal staff the pamphlet drop was queried, as some homes in the affected area did not get the original notice in their letterbox. Centennial acknowledged they may have missed some people.
- 10 Finally on 3rd May 2012 a letter and diagram of the proposed Extension to the Newstan Mine was provided, but stated that it was subject to change. A copy of that document can be found in **Appendix 5**. In this diagram it shows the intention to mine into Rathmines, please see Longwalls 110 & 111.

# Meetings with Centennial Coal

- 11 To date this Association has had three meetings with Centennial Coal re Extension of Mining Project longwalls 110 & 111 (into Rathmines).
- 12 On 8th March 2012, a meeting was held at Newstan Colliery Area (Fassifern) comprising two representatives of Centennial Coal and six members of the Rathmines Progress Association and local residents. At this meeting we supplied Centennial Coal with a photocopy of the former Toronto Waste Facility Kilaben Bay Tip (located off MR 217), mentioned the former Rathmines Waste Facility (located off Dorrington Rd. Rathmines) and the current Lake Macquarie City Council (LMCC) Waste Management Facility at Awaba (off Wilton Road). The LMCC are proposing to extend the life of the current Awaba facility for another 20 years. Appendix 6 contains details of Kilaben Bay Tip.
- 13 On 27th March 2012, by invitation of this Association and using a Centennial Coal vehicle, an Environmental Officer from Centennial Coal, their Public Relations Consultant and two members of this Association went on an inspection of the surrounding areas starting at Toronto Fire Station and ending at Rathmines. The tour lasted approximately three and one half hours. At the beginning of the inspection, a list of route and issues were given to Centennial staff. Attachment 7
- 14 We inspected the disused Toronto Waste site. The head of Kilaben Bay Landcare, Mr. K McPherson, acted as guide for this site. We traversed from Main Rd 217 to the intertidal zone where that part of Lake Macquarie Catchment meets the Lake. Part of the lower area is zoned 7(1) Conservation

(*Primary*) under the LM LEP 2004 and forms part of the SEPP 14 protection zone for the Kilaben Bay Wetlands.







Figure 2 – Kilaben Bay

15 Our understanding is that Toronto Waste( kilaben Bay Tip) site closed in 1977 and is now located in the 6(1) zone as shown in Figure 1 above. It was never capped properly and water continually leaches from the tip after rain. The only thing covering it is lantana vine and spots of morning glory vine. It has very steep batters (approx 1:1.5). The upper areas have been left in a disgraceful condition and dangerous state with sharp garbage and broken bottles sticking out all around the very steep batters. This site is now classified a Crown Land Reserve. At the base of the garbage mound is heavy dis-colouration, still pools in the upper section had an absence of the normal healthy pond e.g. mosquito wrigglers, water boatmen, tadpoles or frogs. They do not support animal life to the naked eye. We enquired of the head of *Landcare*, if the tea trees growing out of the still water would deter animal life and was told no. The dis-coloured area should be tested by the Environmental Protection Authority as a matter concerning public health. At lower the tidal interchange area there was proof of small fish and healthy movements in the water.

- 16 Centennial Coal officers were given a sheet outlining our issues and concerns at the start of the tour. Toronto Tip at Kilaben Bay, Dorrington Road Tip Rathmines and Awaba Tip were listed.
- 17 On 6th September 2012, a third meeting with Centennial Coal was held at Newstan Colliery to discuss the Subsidence Management Plan Longwalls 101 to 103.
- 18 This Association provided photocopies of Appendices 1 and 2 as referred to in earlier background papers of this document reference to background history of Mining Lease ML1452. It established that current longwalls 101 to 105 were the same coal seams and locations as Powercoal Papers "Newstan Colliery Life Extension Project Planning Focus prepared by Umwelt (Australia) Pt y Ltd October 1977.
- 19 We referred to the tour conducted on Tuesday 27th March 2012 and our outline of broad issues which included the 3 waste tips: the current state of the disused Toronto Waste Tip, Kilaben Bay and its leachate; and the Awaba Waste Management Facility and its design constraints, surface cracking, unresolved further investigation, damage to existing leachate systems, subsidence impact, unresolved groundwater & leachate matters and mining uncertainty.

# The Rathmines Progress Association's input into Centennial Coal Subsidence Management Plan(SMP): Longwalls 101 to 103 Written Report plus Appendices 1 to 10

- 20 This Association is mindful of the large contribution the Mining Industry makes to our economy, our communities, the balance of trade and way of life in Australia. Its member's empathise with Centennial Coal and its parent company Banpu in the difficulties experienced winning ore from mining.
- 21 We cannot tolerate, however, any threat to the destruction and health risk to our communities or the environment of Lake Macquarie.

- 22 The Awaba Waste Treatment Facility (AWTF) no matter how you dress it up is basically a LMCC Tip.
- 23 We will reply to issues raised in the SMP and cite the relevant section in turn.

# SMP: Executive Summary - Introduction page ii

24 Reference to combined Young Wallsend Seam and part Yard seam at Newstan Colliery conclusively proves (and agreement from Centennial Coal on the 6th September 2012 meeting) that papers in our records "Powercoal Planning Focus October 1997" is the same location and body of ore mentioned in this document.

# SMP: Executive Summary - Consultation page iii

- 25 Detailed consultation between Lake Macquarie City Council (LMCC) and Centennial Coal (CC) has been ongoing on for approximately twelve months. There are no details of the other two tips in close vicinity of Kilaben Bay. These all ultimately drain into Lake Macquarie and a protected SEPP 14 Wetland.
- 26 Please refer to **Attachment 8**, In this attachment the Existing Tips :

| Toronto (uncapped & unlined) best estimate                  | 475,000m³               |
|---|-------------------------|
| Rathmines ( uncapped & unlined) best estimate               | 725,000m³               |
| Awaba Tip( yet uncapped and not fully lined) Council report | 2,200,000m <sup>3</sup> |
| Total   | 3.400.000m <sup>3</sup> |

(Awaba Tip proposed extension to 3,500,000 m<sup>3</sup> – not included in totals))

- 27 The Toronto and Rathmines waste sites, being earlier entities, do not have leachate systems and ultimately leach into Kilaben Bay and the greater Lake Macquarie. It is our understanding that tip leachate is a very noxious substance and is active for some 50 years. It is our understanding that Toronto Tip Closed in 1977 is still emitting substances after rain and is draining into SEPP 14 Wetland.
- 28 The Rathmines Waste Site (Dorrington Road) we understand, was originally a quarry, filled by the RAAF Rathmines Base. Commencing around 1939/1940, it was Australia's Largest Seaplane Base. Garbage disposal for up to three thousand enlisted RAAF & WAAF personnel plus contractors used this site. In addition industrial type waste from overhauling aircraft / boat/ vehicle & machinery was un ceremonially dumped at the site.
- 29 Tip fossickers even reported uncovering live ammunition. These finds were reported to the RAAF.

- 30 This Tip was taken over by LMCC and it took the overflow from the Toronto and Bonnells Bay tip before closing down in 1985/1986 when Awaba Waste Management Facility came on line. The Awaba facility is the only waste facility operated by the LMCC in its LGA.
- 31 It is remarkable that there is no mention of the Toronto Waste Tip and Rathmines Waste Tip in the SMP, principally because there is move to longwall under Awaba tip and the wider tip presence should have been brought up in the Kilaben Bay catchment.

# SMP Executive Summary - Subsidence Prediction

- 32 Longwalls 102 & 103 have predicted subsidence of 1.0 metre and 1.2 metres respectively.
- 33 The Awaba Tip is a legally approved waste facility but was never designed for longwall intrusion. There are surface/ groundwater water leachate issues in the vicinity of Awaba Tip mentioned in the SMP Appendices.
- 34 It is the Rathmines Progress Associations understanding that Lake Macquarie City Council was fined \$40,000 by the Environment Protection Authority during an incident in August 1997. In reply to our query of that time, please refer to **Attachment 9**.
- 35 It is evident that there was no environmental operational ground staff training until 1999, Awaba Waste Management Facility, amongst other things, is a registered facility for the disposal of asbestos.
- 36 Under the regulations governing the disposal of this hazardous and toxic substance all asbestos including dust and fines must be wrapped in plastic sealed by tape and put on a register which is kept by LMCC. There is no mention of this product or quantities in the SMP. Subsiding on mass including tilt and strain and sharp objects within the landfill <u>puts the whole system of containment at risk.</u>
- 37 Subsidence in the natural valley above longwall 103 reference Appendix 4 Page 89 MSEC fig 6.35. If there is a shift in the natural original valley due to subsidence faulting of around five metres it would in our opinion alter the original height of RL76mAHD. The slump created could cause any additional fill to RL94mAHD to be compromised and probably tip over the natural barrier. If deep fault line cracking occurred all clay based compaction lining would be compromised.
- 38 This Association questions why longwalls 104 and 105 were not included in the SMP submission. Centennial Coal explained at the last meeting it was more difficult geology and it would need different mining extraction equipment in this area. However, looking at the Powercoal Planning Focus October 1997 maps Figure 2.2 Geological Structures(Intersected & Projected ) & Borehole Locations and overlaying the longwalls and faults zones from the

Powercoal papers and Appendix 4 MSEC document onto our own maps it is evident that there is a fault zone running across longwall 104 which is not in the SMP. However, this fault zone also runs on the Awaba Tips south western boundary and under longwall 103. This interpreted fault does not appear in Appendix 4 Fig 1.10, 1.11 or 1.12. This transposition was done by one of our members a retired Spatial Science Professional. **Attachment 10** 

# SMP Executive Summary - Risk Assessment Surface Characterisation, Impacts and Management

- 39 This touches on seventy four potential risk aspects. However the failure to include the Toronto and Rathmines Waste sites, glaring anomalies of things like composition of hazardous substances and their quantities, leachate waste treatment figures which should be readily available and included, identifiable knowledge gaps requiring further investigation, loss of papers on the original Awaba Waste Management Facility construction and many more issues has skewed the risk assessment process.
- 40 Surely public safety, public health and environmental health would be one of the most significant potential risks.
- 41 Looking briefly through the Report for LMCC : Awaba Waste Management Facility Feasibility Analysis July 2010, Management Facility Feasibility Analysis Groundwater - there is high significance possibility that the excavation will impact on the groundwater system.
- 42 Then onto Additions to Awaba Waste Management Facility Preliminary Environmental Assessment 29/06/2010, Environmental Risk analysis Groundwater. There is high significance possibility that the excavation will impact on the groundwater system.

# SMP: Appendix 8 - Groundwater Chemistry

- 43 It states "Overall, an assessment of existing site levels and groundwater elevations indicates that the original disposal area and main leachate ponds are currently in close proximity to groundwater" It goes onto say there may be some interaction between leachate and groundwater at MP2 and MP4. Finally ending in "Based on available data, the migration pathway of leachate to groundwater is unknown."
- 44 Reference is made to Appendix 10 Surface Water Impact Assessment GHD Page 72. Almost the whole page is indicating higher than ANZECC trigger results for Lords, Stockyard and Kilaben Creeks for levels of aluminium, iron, chromium, copper, and zinc.
- 45 This Association has been made aware of an Ex RAAF structure situated behind the New Substation at the Corner of Wilton Rd and MR 217 (Awaba Rd) there are two dirt tracks leading to it.

- 46 The Structure is above ground dimensions approx 30m by 15m. It is understood the concrete is reinforced and approx 30cm thick. It is very surprising that this was not included in the structural list in the SMP. We understand it was used for the storage of ammunition and bombs or their components. There is a high probability that other war rubbish was buried in this area. This area is in the vicinity of Stockyard and Kilaben Creeks.
- 47 On 24th May 2012, two members of Rathmines Progress Association attended an information evening at Council Chambers. It was hosted by Cardno Consultants. It was held before the Centennial's SMP was released. We contributed to a Community Forum Questionaire, see **Attachment 11**. No response or feedback to our concerns have been received to date.
- 48 The signatory has lived in Rathmines for twenty eight years. Over these years he has observed the abscence of water-birds in Stockyard Creek west of the bridge. These birds are prolific in the surrounding area. There is usually water in the creek. The water always appears black.
- 49 Kilaben and Stockyard Creeks should be sounding alarm bells at this time. Longwalling under Awaba Waste Management Facility is fraught with danger.

# Summary

- 50 The overriding concerns for the Rathmines Progress Association are without a doubt the public safety, public health and the environmental health of Kilaben Bay and the wider Lake Macquarie environs.
- 51 Lake Macquarie although huge, has only a 1% water interchange through the Swansea Channel, and has limited tidal flushing and largely landlocked with thermal water movements.
- 52 Every resident and commercial tenant has been contributing by an environmental levy for improving Lake Macquarie for many years the enclosed Newcastle Herald Article dated 25/08/2012 by departing Mayor Greg Piper and Hon. State Member. **Attachment 12** His estimate of twenty million dollars is considered on the low side of investment by the State and Lake Macquarie Communities. The Change of W1 Natural Waterway would be a great achievement.
- 53 A disturbing point, is that both Council and Centennial have Consultants advising on these matters. Should misunderstandings arise which leads to a major environmental event, who pays? Such an incident could lead to protracted court proceeding. If this should happen Lake Macquarie City Council and the residents are as one in this respect, they would bear the cost.
- 54 Rathmines Progress Association has no objection to Centennial Coal Mining Longwall 101. Once mining of Longwall 101 is undertaken and nearly completed we will have more factual geological data. We respectfully request

that Longwalls 102 and 103 have deferred approval until more information is available.

- 55 This Progress Association by its geographic location is a stakeholder.
- 56 Its members and communities, swim, fish, eat, sail, and generally enjoy Kilaben Bay and the broader waters of Lake Macquarie. We respectfully request to be included in all the information streaming between Lake Macquarie City Council and Centennial Coal with reference to this Subsidence Management Plan.

Yours Faithfully,

Signed W McArthur

W McArthur

**Acting Secretary** 

Dated 24/9/2012

Note scanned attachments 1 to 12 (included)

# Lakeside ATTACHMENT 1 residents call for new ban on mining

By SALLY CROXTON Lake Macquarte

FACED with the prospect of longwall mining below their lake-side auburb, concerned Rath-mines residents called last night. for a ban on underground mining honesth residential and omnue cial areas.

cial areas. The meeting of about 200 resi, donts called by the Rathmines Progress Association agreed to ask Cale MPs to seek legislation for the bar.

ask State MPs to seek legislation for the ban. Anong the concerns reised by residents whit the depresidion in property volues said to be already occurring in the area from publicproperty values said to be already occurring in the area from public-ity about the proposed Newstan Collicry, extension, less of perce of and future uncertainty.

a) and and intere uncertainty, ..., trianally the meeting, was call after the State Govern-m award company, Power-coul, told residents that Rath-mines would be included in a development application for an extension of underground mining of Newstan Chillory, at Fassi-fere. lern.

The development application was planned to be ledged with Lake Macquarie City Council towards the end of April

Then last weak Powercoal removed Rathmines from the project. Résidente declared to hald the

. Residente decléed to hold the meeting regardless and were not reasoured when Powercoal repre-sentative Mr Bob Clifton told them that he could not predict what would happen in the future. He said after the meeting that while Powercoal would not be gaing in to mino the area during file 32-year life of the proposed Kewsean extension project, the usual wis there and there was a obserbility that another colliery possibility that another colliery would arek to mine, beneath Rethmines.

Automines. (1996) Provide the second second

ing a committee to oppose the project under their area.

project under their area. The secretary of the Rathmines Progress Association, :Mr Bill-McArthur, told last alghf's meet-ing that the original Newstan extension project involved mining under 1053 homes conservatively, valued. It AlaOmilion and implied about 3000-residents. The account of Restation is at

"The community's lifestyle is st. rick, and the very fabric of our communities are at tak if they mine under the things that srr most dear to us, be said.

.These included:

1967; Umplanned subsidence at Chain Valley Bay, Late Mac-

cuarie. 1937: Cataráci. River, a pro-tected river disappeared with landowners suing BHI? for \$2mil-

lion. 1990: Unplanned subsidence at

1991: Barilli tremors at May-mong Point attributed to long-wall mining: 1992: Unplaymed subsidence at

(Awamdalum

(Awandstan, 1992: Ellalong Action Group formed as a result of 42 hours damaged near longwoll mining. 1992-1993; Longwolls mining.

10 Bolton Point, road buckled, concrete gutters' stacking in Woodhising men. 1992 - HWE: Parts of Marmong Point subsides into Lake Mac

-1993: Meeting at Fessi-1992len: School by 800, angre resi-dents who had empiricated dam-age to properly, and vibrations forabous a year? .1996: Pelaw Main, soil collapse

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Vacq (ose (St)

#### ATTACHMENT\_02 1/2

W. McArthur Secretary Rathmines Progress Association PO Box Rathmines NSW 2283

ATTACHMENT 2

invel 1, 1 Critic Avenue (f. O. Box 51), Stagleton, NS & 2030, Australia INERECTORATE: Phone (265) 72 1879 - Fax (265) 72 1201 GEOLOGY, Nione (263) 72 4200 - Fax (263) 72 1201 Kilminia Title5: Phone (265) 72 4200 - Fax (263) 72 1211 DX 7671

15 April 1998

Dear Sir/Madam.

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Re: Authorisation 285 - Covering the Coal Point Area.

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The Department received two letters from you on 20 March 1998 both dated 18 March 1998. Here is the information that you requested.

A 285 was renewed on 3 July 1995 until 26 November 1998. The Department holds Authorisation 285 so that it can evaluate coal resource potential and determine the appropriate allocation of the resources. There is no requirement for the Department to continue to explore or develop the resource.

Since the receipt of your letters Powercoal has decided to exclude the Rathmines area from the mining lease application (see attached diagram).

If Powercoal or any other mining company apply for a mining lease over any area outside the current mining lease application they will be required to produce an Environmental Impact statement.

If you have any further enquires please contact Darryl Stevenson, Geologist, at the Departments Singleton Office on Telephone (02) 65721899.

T 13-(48

Yours Faithfully

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Darryl Stevenson for Chief Coal Geologist

Noral Con P

ATTACHMENT 02



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# ATTACHMENT\_03



ATTACAMENTLY



1 February 2012

Dear Resident

#### Newstan Colliery - Extension of Mining Project

Newstan Colliery (Newstan) is an existing underground coal mine located near Fassifern with surface activities including train loading, washery and waste handling facilities. Newstan has been operating in the area for over 125 years and produces coal for both domestic electricity generation and the expontimarket.

In 2006, Newstan commenced an exploration drilling programme which has provided the basis for investigating opportunities to further commune underground coal mining and coal handling operations. These investigations are ongoing and include studies into any potential impacts on both the natural and man-made environment.

Newstan is proposing to mine beyond its current approved operations. Therefore it will be required to initially submit a briefing paper (an overview of the proposed project) to the NSW Department of Planning and Infrastructure who will then use the information from this document to determine what Newstan must include and address in an Environmental Impact Statement.

The Briefing Paper, when submitted, will be made available on both the Department of Planning and Infrastructure website (<u>www.planning.rsw.cov.ey</u>) and the Contennial Coal website (<u>www.conftgniakcoal.com.au</u>). When completed (mid 2012) the Environmental Impact Statement will be submitted to the NSW Department of Planning and Infrastructure who will seek public comment prior to finalising the assessment process.

As a resident adjacent to any potential future mining activity, we would like to inform you that there are a range of studies being undertaken to assess the potential impacts an underground mine may have on creeks, groundwater, flora and fauna, Aberiginal and European heritage sites, air quality, noise amonity, greenhouse gas emissions, social impacts and impacts on all surface infrastructure.

We will keep you informed throughout the process and if you have any questions or concerns please contact our Newstan Colliery Community Information Line on 1800 247 662.

Yours sincerely

Terry O'Brian Mine Manager – Newstah Colliery

Ann Aller Nector Nec

Contownial Anomatica Pty 174 ASM SB 111 508 365

100 Miller Roed Fassiforn NSW 2283 PO Don 1300 Teronio NSW 2283 Australy

F 61 2 4950 4700 F 6991 Scentermistoid.com.au Vý méw.com.ontalcoal.com.av



TT ACHMENTS



Dear Resident

3 May 2012

#### Newstan Mine - Extension of Mining Project

In February 2012, Centennial Novistan notified you that an application had been submitted to the NSW Department of Ranning and Infrastructure for an extension of underground mining operations at the Newstein Mine. The application was accompanied by a Briefing Paper to provide the Department with an overview of the proposed project which is now available on both the NSW Department of Planning and Infrastructure website (<u>www.planning.nsv.gov.au</u>) and the Centennial Coal website (<u>www.planning.nsv.gov.au</u>).

Following the submission of the application and briefing Paper to the NSW Department of Planning and Infrastructure, the Newstein project team has been working to finalise the mine design for which it will be seeking approval for. For your information, a copy of the conceptual mine layout has been enclosed with this fetter. Over the coming months, various assessments will be undertaken to determine the impacts of the proposed mining operations on both the environment and surrounding communities. The outcomes of these assessments may result in further changes to the mine plan prior to a detailed Environmental impact Statement being prepared and submitted to the NSW Operiment of Planning and Infrastructure for assessment.

As a landowner within or adjacent to the proposed future extension of mining operations at the Newstan Mine, we will continue to keep you information the progress and outcomes of these assessments currently being undertaken. Updated information will also regularly be provided on the Centennial Coal website.

If you have any questions or concerns regarding the proposed extension of mining operations of the Newstan Mine, please contact the Newstan Mine Community Information Line on 1800-247 662.

Yours eincerely Centennial Nowstan Pty Limited

<sup>7</sup> Teary O'Brien Mine Manager – Newstan Mine

Enclosed: Conceptual Mine Layout (NS2861)

Contennial Assistant Ply Lig ABN 68 101 508 365

táli Malyr Royal Fassilenn NBW 2285 PO Box 1000 Tameta NSW 2315 Austra Tameta NSW 2315 Austra

61 2 4856 0200 61 2 4859 4230 Headled Dey 1920

ATTACHMENT 5



#### ATTACHMENT\_06 1/3

TACHTON

Mr. Ian Broadfoot Lake Macquarle City Council Box 1906, Hunter Region Mail Centre NŚW 2310

24 August 1999

NSW DEPARTMENT OF MINERAL RESOURCES Joint Coal Sound Oldy ! Civic Avenue (P. D. Eas SI), Singleton, NSW 2330, Australia Phane (065) 72 1899 · Fox (065) 72 1201 CK 7071

14

Our Reference: L96/0523

Dear Ian

#### Proposed Westlakes Leisure Centre Lot 90 DP 755207, Lot 313 DP 755207, and upreserved Crown land

I refer to your verbal request, at the August DARZL Committee meeting, for the Departments assessment of the proposed leisure centre.

The subject land is situated within Authorisation 285 (A285) held by the NSW-Department of Mineral Resources.

There are significant coal resources within the Young Wallsend / Yard seam underlying the subject land. The Young Wallsend / Yard seam is about 4 m thick at about 400 m depth of cover. The Authorisation is held by the Department for geological assessment prior to allocation of the area to private companies interested in carrying out detailed exploration leading to the mining of this coal resource.

As you are aware, at the August DARZL Committee meeting Powercoal Pty Ltd indicated that they are considering applying for the area to add to the Newstan Colliery Life Extension Project. The coal resources underlying the subject land, if allocated to Powercoal Pty Ltd or any other private company, are likely to be mined using the longwall mining method in order to maximise resource recovery.

On the basis that the proposed Westläkes Leisure Centre will prevent total extraction of the coal resources underlying the subject land, and therefore sterilise a portion of these resources, the Department of Mineral Resources objects to the proposal.

As discussed at the August DARZL Committee meeting, the Department would be happy to discuss attemative locations within the area that would have less impact on future coal mining activities.

If you require further information please contact the undersigned at the Departments Singleton office on Telephone (02) 65721899.  $\mathcal{U}_{55}$ 

AMMED <sup>2 6</sup> AUG 1539 Yours Faithfully .....

Darryl Stevenson for Assistant Director Coal and Petroleum

0/4 5 2.6 AUG 1999 RÉFER 113/0190 FILE WITH

#### ATTACHMENT\_06 2/3

IB Ext 282 Council Ref: 3/90/177/008

31 August 1999

Ms Sharon Rowarth Westlakes Olympic Pool Committee 6 Dore Street AWABA\_NSW\_2283

TTACUMENT 6

Curality Lifestyle Box 1906 Hanke Region Val Conne NSN 2819 125-138 Main Rosc Screas Pont NSN 2564 Cor mar Vondale Telephone (02) 4921 2533 Facsimile (02) 4925 7237 Intel<sup>1</sup> corpage atenau nangora.

Dear Ms Rowarth

# SUBJECT: SITE FOR PROPOSED WESTLAKES LEISURE CENTRE

I refer to Council's letter dated 5 July 1999 advising of Council's decision regarding the proposed site for the future Westlakes Leisure Centre and the proposed new Community Consultative Committee.

I also confirmed that Council had asked the Department of Land & Water Conservation to transfer the site to Council.

The Department sought comment on the proposal from other Government departments and agencies, and has advised as follows;

- Roads & Traffic Authority No initial objections, but reserves the right to comment further at DA stage.
- EPA Requirement that a series of investigations be undertaken (see attached).

The Department of Mineral Resources has written directly to Council notifying an objection to the development of a Leisure Centre on the site (see attached). The Department has however, offered to assist by assessing all other sites which have been considered by Council. This offer will be accepted.

I will arrange a meeting of the new Committee when Council has received the Department of Mineral Resources' assessment of the alternative sites.

Yours faithfully YOAU AN BROADFOOT

ASSET & POLICY DEVELOPMENT MANAGER COMMUNITY PLANNING DEPARTMENT

Send a batter to a friend oversees for FREE. Internet and enall services are now available FREE OF CHARGE as your local Lake Macquaric City Library

Affiliated Stater Cities Hakadabe, Japan Round Rock, Texas, USA Furana, Naw Zee and Friendship City Tenagura, Jopen



# ATTACHMENT\_06 3/3

This attached paper automated to games become + James Moustall at a making toon held on 27/3/2012

Trip with James Wearne, James Marshall, Eric Maronese and Bifl McArthur 27/03/2012

Meet Ken McPherson Team Leader - Kilaben Bay Land Care at Fire Station Go to Rock bolting /Ferrocrete Area MR 217

Cost something like \$50,000. Problem boulders crashing onto MR217 for years due to fragmented geology issues. Mt Waring 200ft high drops sea level over short distance. Drainage to Kilaben Bay Wetland via Kilaben Creek

Go to First Old Tip on MR217 near Centennial Coal Mine Boundary

Take him to the land we were thinking of putting a leisure Centre in cooperation between Awaba Progress Association, Coal Point Progress Association and Rathmines Progress Association. Sixty thousand dollars raised to start the Leisura Cantre. Finally donated to LMCC as Len Lazarus Pool(Toronto West (now LMCC owned) was built instead . Issues:leach-ate, steep ridge issues, earth movement issues with mining,

Centennial coal handed map of this tip at meeting 8/03/2012

Garbage still protruding out ride in some places. Now Crown land. 30-35 years ago. Leach ate still present up in old tips to 50 years.

Go to Roundabout MR217 & Dorrington Rd

History: RPA had corner made into seegull crossing around 1998

August 2007 - G Piper 1st Petition 1600 signatures to Legislative assembly re roundabout to stop accidents. Not presented due to procedural error.

Meeting of community Rathmines Hall 17/11/2007, 5pm. Katrina Loftburg grand daughter of Mr. Neil Dennet who was tragically killed at roudabout May 2009.

2<sup>se</sup> Petition through Greg Compet and Greg Piper. 5,000 signatures.

Federal black spot funding approval plus State & Federal funds.

Roundabout completed end 2009, cost \$4,000,000 00

Go to Dorrington Rd opposite Second Disused Tip

One of the two major roads leading from MR217 to Rathmines, Bayswater Arcadia Vale & Fishing Point.

Issues:Long wall mining under the length of the whole road to Clydebank Rd.

Subsidence issues, commuter danger, long term public transport inconvenience.

Go to Second Old Tip off Dorrington Road

Up into the area and look from the highest point.

Leach ate issues, drainage issues, subsidence issues. Loss off deep soaks.

Closed approx twenty years ago.

Refer to current Waste Facility refer \$40,000 LMCC fine and letter we wrote on 21/02/1999 and asking environmental question. What training have staff had??? In the reply letter all 9\* March 1999 all staff will be trained. So until March 1999 anything could have been dumped in the tree tips. Staff didn't know.

Hunter Water have a fresh water line across the ridges which takes water to the Central Coast. Also there is a sewerage fine taking water from Rathmines to Dora Creek . Eraring Power Station benefits from this water. One of these pipelines(not sure at this time, which one)had alignment problems and leaked a large amount of water. Significant sections had to be renewed

#### Awaba Waste Facility

Current Awaba Garbage Facility commissioned October 1986 - 32.5 hectares.

Currently 1.36 million tonnes and growing , is 40% full . In the process of extending the facility for 24 years and to 3,504,00 Cu Metres or 4,060, 000 tonnes.

Garbage Tips clay banded soils could help hold mass in situ-. Long walls driving-material deeper into water table.

CACHMENT

ATTACHMENT 07 1/3

# Go to Rathmines Primary 11am 777 49751229

#### Meet Ann Britt Librarian

Rathmines Primary School children being involved in naming of Hely creek.

The closeness of the school to the community. Show the propeller at the main office, in the concrete and a history study of the area which was done by Ann Britt, librarian some years ago who got a grant to do it. The children of the school have been participation in the Catalina Festival each year( now in fifth year)in various shapes and forms. Go to Buttaba Hills Estate

Tell him about Hilton Gudgeon selling off the blocks south of Buttabe Hills Road. Look through estate showing him steep topography to the west.

RPA reduced estate size due to Awaba soil one of the most erodible there is.

Give him photocopies of Progress letters, also of sediment traps.

Go up the hill to Hadleigh Rd and look from the top.

Take him to the permanent soaks at the bottom. If the natural water flow is interrupted wildlife bush/marine & flora will suffer as a result of lack permanent water.

Then go to the silt trap we had constructed and then around to the headwaters of Secret. Bay. Photocopy of the high sediment article supplied to Centennial Coal at meeting on 8/03/2012. The colour of Secret Bay goes changes to a curtain of brown after rain and is very visible to properties which look down from above.

Go to Hely Creek on Clydebank Road

Show sewer pumping station and drain under road.

Go to Hely Craek on Rosemary Row at pressure retention pond.

Rathmines Primary School children being involved in naming the creek.

Retention pond was enlarged about four years ago by LMCC to relieve pressure in storm events. Show freshwater galaxies living there. Acor Appleyard (Centennial Contractors took pholos of the fish in my presence on 13/03/2012. The galaxias have been killed twice and must come down from permanent soaks in the hills.

Walk to where it goes under the road (its original route) on Clydebank both sides of the road. Show lay backs to control water flow and extra extensive drainage put in when Catalina Estate was put in by developer. David Gray approx 15 years ago. Go to stormwater outlets at the back of Catalina Estate

Show party the view of the newly cleaned out(one year ago) creek to bedrock (& meters road base removed after Hunter water main break which took Rosemary Row out for four days)after Hunter Water finished. Tell him the Galaxias native fish kill twelve months ago, then again thee months later. Point out fish living in this area now. Tell him about the

damage to homes along the back the creek, during the weather of the Pasher Bulker grounding some years ago. Hely Creek always runs clean.

Tell him about fresh water retigulation main breaks in Rosemary Row near Hely creek . Take him up further to where the new work was done and Kriebworth Grove.

Take party to the pumping station retention pond at the back of Catalina Estate. A sanctuary for native birds, duck families. Can be cleaned by mechanical means. Hely creek always runs clean.

Take party to Dorrington Road open stormwater drains put in by the RAAF. Show party hard stand area and underground waterway to drain into the lake. Any siltation of this area will block underground drains.

#### Take party to Handstand area

Show small stormwater outlet which was previously a large tidal salt water creak and swamp. In this area on extreme weather events the fresh water from Hely Creek rises over the roadway, over the hardstand area and flows into Lake Macquarie Catalina Tour numbers from 17/09/2009 to 31/03/2012 = 1670 People from all over New

South Wales

Tell about Catalina Festival into our fifth year has become a major event in the Gity Of

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ATTACHMENT 07 2/3

Lake Macquarie. Very strong affiliation with RAAF.

Any siltation from mining coming down Hely Creek will be highlighted at the Hard-stand area as it flows into Lake Macquarie.

Take party to Catalina Point

Demonstrate tap working from 1939-1940 hydrant

Tell him it is a recognized War Memorial run by Penny & Bob Furner.

# Take party to RPMBC

Show party historic displays.

Also painting of Attie Warne

# State Heritage listed Seapiane Base

Take party to the Skateboard Bowl

Six core fathers raised the money,took over LMCC land, built the bowl, hired a contractors 11 tonne traxcavator and paid him on his RDO, whilst the sewer was going through. With five core fathers plus a tot of helpers dug the bowl for two years, hired specialists, where needed and presented it back to LMCC.

Designed by the skateboard riders in the district.

Cost of construction \$33,000 finished value \$125,000

Reference to standing in the middle of the Mexican hat with the lake backed up and salt water going into my work boots. Sediment coming down the creek will be spread far and wide.

#### Take party to to Secret Corner Road.

Show him our old house and mention clay banded soils. Reference to soil reaction Geo Technical Engineer (\$500.00 cost the the household) as a standard precursor to argue soil reaction vs earthquake damage per K Gritten (local builder employed by Earthquake Disaster Centre Newcastle.

Take party to Crir. Secret Rd & Bourneville Rd where new freshwater reticulation work work was done.

Take party to Home

When moving into current home in Cheapside Street piers had to be repacked after building inspection after purchase due to clay banded soils. Now to be in subsidence area of Centennial Long wall ?????????

Photograph State Heatage listing certificate and anything else James Warne wishes from my tour notes. NB take any photos of Galaxias fish in garage. Photograph of Heritage listing etc.

Show fresh water main breaks from Hunter Water pamphlet. This is the 6<sup>th</sup> instance of a break two door up since June last year.

#### Reference Eraring Power Station

Main thrust bearing power sixteen 747 jet engines.

Is put into tolerance of +/- three thousands of an inch.

Toe drains in ash dam - must wear breathing apparatus. Two chemists killed years ago from CO2 gas.

Whiteheads lagoon selenium issues.

ATTACHMENT 07 3/3



ATTACHMENT\_08

## ATTACHMENT\_09 1/2

ATTACH MENT 9



Rox 1906 Humer Begion

Vial Cectre NSW 2510 125-138 Main Brud Speers Foltz NSW 2281

E27665 Novozin Telephone (02) 4921 0533 Facs-mile (02) 4958 7257 smail: corprep@liskamec.rsw.gov.au

AP:SNB Ex: 477 3/44/261/014

9 March 1999

The Secrelary Rallmines Progress Association FO RATEMINES NEW 2203

Dear Sir/Madam

RE: LEACHATE LEAKAGE AWADA TIP

Thank you for your recent correspondence regarding the abovementioned matter.

The following information serves as response to the quotions raised in your correspondence.

 Council currently smploys four (4) staff who are based at the site.

A number of other personnel are contracted to perform duties on an interim basis.

 Council employs a Waste Sites Supervisor who is responsible for environmental auditing of the site. All staff accousted with the site are to receive environmental awareness training.

- Council regularly monitors the condition of adjacent watercourses and water management systems on the site.
- Council has a Landfill Environmental Management Plan in place. This has been submitted to and approved by the Environmental Protection Authority.

5. In regard to the situation which resulted in the fine, the discharge of Leachate was immediately stopped. The watercourse into which the leachate discharge was blocked and its contents drained to a leachate dam. The watercourse was then flushed to remove any containments. The flushing waterc were also drained to the leachate dam.

T14/4/99

Afrikative Sister Crites - a weblie, Japon Reine Rock, Taxas, USA Brocka, New Zelanc Friendship City areguta Japan

SERVIR/CCD. CENJER

ATTACAMENTY

#### LMCC/2

Council has amonded water control measures on site to prevent this situation occurring in the future.

÷

If you require any further information in regard to this matter, please diract your enguiries to myself by phoning 49210477 during office hours.

Yours Faithfully  $\leq$ 

ADAM PIPER WASTE SITE SUPERVISOR WASTE & EMERGENCY SERVICES

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. . ...



KOMMC. \$35/310888

## ATTACHMENT\_09 2/2

ATTACHMENT\_10



Awaba Alternative Waste Treatment (AWT) Facility **Environmental Impact Statement** Community Forum Questionnaire Community Forum, 24 May 2012 Committee Room, Lake Macquarie Council Administration Building, 125-138 Main Nd, Specie Point Cardno stated yessing (ck.) Question 1: What do you think of LMCC's plans to build an Alternative Waste Treatment (AWT) Facility on the parcel of land adjacent to the current landfill site? Do you have eligenative suggestions? ans for ALLE 8664 Question 2: What are your key concerns about the proposal? with an faller C lattu Low Act 13 provide any additional comments you consider relevant: radilie i 1 Gis l tu Rect ATTACHMENT 11

# ATTACHMENT\_12

# Never again will Lake suffer too much love

#### Users will benefit, abusers will not pass go, writes Greg Piper.

WE all appreciate Lake Macquarie, whether we use it for boating, sailing, fishing or just as a backdrop o our rapidly growing city.

o our rapidly growing city. Following state government equirements, Lake Macquarie City Douncil has prepared a new Local Environmental Plan for all land and vaterways in the city. As part of this we want to change the zoning of the ake from "11 Lakes and Waterway" o "W1 Natural Waterway" to acknowledge the lake's return to ealth over the past 20 years. The proposal to make use of the W1 Natural Waterway zone has riggered some discussion and oncern, mainly that the zoning will estrict people's ability to use the ake as they have in the past. Those ears are unfounded and, with the ninor additions council is ncorporating into the zone bjectives, it is clear that the ability o use the lake will not change. In 2005, a government biodiversity issessment of waterways between vewcastle and Shellharbour ighlighted the lake as having the

ighlighted the lake as having the ighest "irreplaceability" score, the ighest area of significant shorebird ocations, and the third-largest eagrass area in NSW. This result points to the success chieved by the \$20 million of state

chieved by the \$20 million of state nd ratepayer money invested in estoring the lake over the past 20 ears. We've won significant mprovements in water quality and eagrass distribution and reversed he trend of foreshore areas becoming ncreasingly muddy and eroded. This is why the draft Lake facquarie Local Environmental lan (LEP) 2012 proposes a zoning to nsure first and foremost that its cological values are maintained, nd that it supports the lake's value o the community at large. The draft LEP includes no changes to boating r jetty construction. The NSW Department of Planning

The NSW Department of Planning nd Infrastructure's standard LEP emplate shows that the W1 Natural Vaterways zone has three objectives. The first is to protect the ecological nd scenic values of natural



TREASURE: The irreplaceable Lake Macquarie has been returned to health and is open to those who care for it.

waterways, the second is to prevent development that would have an adverse effect on the natural values of waterways in this zone, and the third is to provide for sustainable fishing industries and recreational fishing. Council cannot change these

objectives, though we have been allowed to add the further objective "to provide for the recreational use of Lake Macquarie and its waterways as an important environmental, social and economic asset"

social and economic asset". Further reasons for choosing the W1 zone include the fact that the lake is closed to commercial fishing and the Lake Macquarie State Conservation Area covers Pulbah Leland and parts of the forsebore

Island and parts of the foreshore. It is an "off-the-rack" zoning from the LEP template, but it is the one most suitable. It will not alter the situation for jetties or moorings, while wharf and boating facilities will remain permissible with council consent. Recreation such as fishing, boating, and swimming are best served by maintaining the lake's high ecological value and the

ATTACKEMENT 12

W1 zone aims to achieve this. Council supports the proposal because it would be irresponsible to

do otherwise. The W2 Recreational Waterways zone emphasises recreation and is appropriate for man-made waterways such as the Penrith Lakes Scheme and Lake Liddell. It has some overlap with W1, but it has a stronger emphasis on water-based recreation and related uses. The W1 zone emphasises the environmental values of the lake without changing or diminishing the usage of the waterway as it now exists. For a lake that was almost "loved to death" before being so successfully brought back to life, this seems eminently appropriate.

The lake's recent history makes the new zoning compelling. Since the public outry about the lake's declining health in the 1980s much has been done to repair many decades of abuse and neglect.

A suite of studies and recommendations from the Estuary Processes Study, Estuary Management Study and subsequent Estuary Management Plan, completed in the late 1990s, set the direction for policy changes and physical works implemented by what was known as the Lake Project Management Committee, These outcomes are still being put into action and we can all be proud of the progress that's been made.

As population and wealth grows in our city and our region, so will the demand and subsequent pressure on our lake. It seems wise to me that our zoning flags that we will never again neglect its environmental health as secondary to our other needs. The W1 zoning respects lake users. but not lake abusers.

users, but not lake abusers. The draft Local Environmental Plan 2012 will be publicly exhibited for a minimum of three months from September 24 and public comment will be invited.

Greg Piper is the mayor of Lake Macquarie City Council. This page left empty
**Background History** The Association has had a long history in dealing with underground mining proposals in this area.

Our objections and concerns are not directed at the act of mining. They refer to the possible resulting environmental effects. These matters would include water pollution due to subsidence under the Awaba Tip and the Lake Catchment. There is also the concern that the two old disused tips have not been considered.

# **Rathmines Progress Association (RPA) detailed**

## response to LMCC Additions to Awaba waste

## Management Facility Environmental Assessmen

On a combined investigative tour on 27/03/2012 with Centennial Coal's Representatives, photo evidence was recorded, shown as Attachment 13, 13A and 13B

Photo 13 – at the NE base of the old unused tip at Kilaben Bay. This tip has not been sealed and as a result as is evident by the discolouration.

Photo 13A – easterly further downstream shows the same discolouration and also additional orange ooze in the still water.

Photo 13B – again easterly further downstream shows deeper still water pools. These show no apparent water life, however gas bubbles were noticed on the surface.

The Rathmines Progress Association has made a submission to Subsidence Management Plan (SMP) Extraction of Longwall Panels LW101 – 103 Mining Lease ML1452 Newstan Coal Mine on 24<sup>th</sup> September 2012. Due to the significant studies of the same area by Centennial Coal (CC) and Lake Macquarie City Council (LMCC). We believe that parts of that submission should be considered. It is important that the complete picture should be available to your Department for its guidance

To this end a copy of our SMP submission dated 24<sup>th</sup> September 2012 is included.

This Association has attended three meetings with LMCC regarding waste matters.

- 1) Many months ago at Morisset Country Club (Reference Round 2 in Cardno Table 4.1 page 41 of Environmental Assessment).
- 2) 24<sup>th</sup> May 2012, with Cardino at Council Chambers, the signatory completed a questionnaire (attach 11 in our SMP submission). It outlined our concerns of

environmental danger to Stockyard Creek, Longwalls 102 & 103, leachate into Kilaben Bay, acquifer damage. This environmental damage, in our opinion, poses a health and lifestyle threat to people enjoying the facilities of Kilaben Bay. A further concern is that part of this area in a protected wetland.

3) 10<sup>th</sup> October 2012 at Council Chambers, this meeting was a Community Information Session. The signatory presented a list of 10 questions which was accepted by your Planner, Christine Chapman (attachment 14). This was, we believe accepted as part of a submission. A copy accepted by Cardno was made available for their information. Our questions instigated an informal discussion amongst participants at this meeting. RPA, Council, Cardno and State Planning were involved.

# Questions 1-3 (Attachment 14)

During this discussion, Cardno indicated that at no time were they made aware of the other two tips in the vicinity of Kilaben Bay. The bad condition of Kilaben Bay Tip was not known and there was not an awareness of the proposed undermining of Dorrington Rd Tip by Longwalls LW110 & LW111.

Therefore no subsidence diagrams appeared in the LMCC Environmental Assessment diagrams for LMCC private 3.7 km rising sewerage main. It is planned to carry tip leachate up to 2032. Estimated average mean discharge of 3875kL/month. About 1.1 km of this proposed main runs along Dorrington Road Rathmines. This part maybe effected by longwall mining subsidence.

# Question 4

There was no disclosure of quantities of asbestos or weight, although it is understood that there is an asbestos register on site at Awaba Waste Facility and this should have been easy to furnish.

Questions 5 to 10 (incl) were not discussed on the night. They are self-explanatory, but we feel the information should be obtained to better assess the project .

Rathmines Progress Association input into LMCC Additions to Awaba Waste Management Facility Environmental Assessment

DGR Requirements General Requirements Key Issues.

- 1) No quantities of asbestos given, although it is understood a site register is maintained at the Awaba Site **NO INFORMATION SHOWN**
- 2) Potential impact on watercourses and ground water two other discontinued tips not mentioned one in bad condition in Kilaben Bay. The other at Dorrington Road is planned to be undermined by LW 110 & LW111 (attach 5 in our SMP submission) Other references in reply to SMP document Pages 4 to 44(incl). NOT ALL WASTE SITES CONSIDERED

3) LMCC private rising sewer (leachate) Main running along Dorrington Rd. No mention of possible undermining in final extraction process. Subsidence issues not addressed (refer attachment 5 in our SMP submission)[dated 3/05/2012] & Cardno EA Vol 1 Figure 6.6 [dated 29/08/2012].

# Further information

Hunter Water Corporation's (HWC) Sewer Main Break at Rathmines No 6 sewer rising main located at Stockyard Creek (off Dorrington Rd Rathmines). Questions asked of HWC (refer Attachment 15) and reply. (refer Attachment 16)

RPA letter to Hunter Water dated 30/03/2012 asked in part:

- 1) From to date of sewer main failure
- 2) Quantity of sewer water removed from Rathmines by environmental tanker during the break.
- 3) Was there a sewer spill into Kilaben Bay? Yes/No will do.

Reply

- 1) A member of the public reported the sewerage surcharge flowing into Stockyard Creek on 13/03/2012. Final repairs completed 22/03/2012.
- 2) No figure available however 8 to 12 tankers used day and night. These tankers were removing waste from both Rathmines No6 and Secret Bay Pumping Stations. A total of 25 pump Stations feed into Rathmines No6.
- 3) YES

Further questions asked of HWC (refer Attachment 17) and reply.

One of our RPA member is a retired Metalurgist and suggested we put forward further questions. A ductile iron main should reasonably be expected to last around 100 years. The subject main failed in 20 years. Are there extreme engineering or soil chemistry conditions that were overlooked or not determined. We do not want Council's rising main to suffer the same fate.

RPA letter to Hunter Water dated 19/10/2012 asked:

- 1) What created the corrosion?
- 2) What kind of corrosion is it?
- 3) Did the corroded pipe have any inside lining fitted?
- 4) Is HWC confident there is no other corrosion present in the pipe line which could lead to another water breach.

We have not received a reply to date. However we are of the opinion that these matters require an answer before final determination is made.

Further concerns

1 Cardno table 6.48 Hazard control Measures – Gas accumulation is referred to however there are substantial coal gas releases underground when longwalling happens. Gas rises and if it gets to the surface through natural fault lines connecting with longwall stress fractures there could be a problem by ignition or accumulation at the surface. Refer to faulting along LW103 and Awaba Waste Management Facility (attachment 10 in our SMP submission). Although extensive core drilling has been done by Centennial Coal our understanding is that these core drilling points were wide apart to test for coal ore body samples rather than faulting of geological structure interpretation.

- 2 <u>Old Leachate Pond at Awaba Facility, its collection lines and new Leachate</u> <u>Treatment System.</u> This Association is highly wary that a large mass of compacted garbage which has been in situ and increasing from 1986. The Awaba WMF is now approximately 2,200,000 cubic metres (approx.1,892,000 tonnes)(Ref page 17 LMCC Preliminary Environmental Assessment 29/07/2010). The waste comprises of many things, including hazardous materials, chemicals plus sharp objects. How can it subsided without damage to the old leachate pond and buried collection lines. We understand there will be a volume meter check of leachate at rising main entry and at exit. What if there is a fracture or breakage in the old leachate pond or buried collection lines? Any escaping leachate may simply disappear into a fault line or compression subsidence crack at bedrock and surface further down the catchment area or Kilaben or Stockyard Creeks.
- 3 Our impression is that the original Awaba Waste Management Facility was not designed to withstand the challenge of longwalling. Extensions have been done, now further extensions are required.
- 4 Our position is favourable to the additions to Awaba Waste Treatment Facility . However our concurrence is subject to longwalling not proceeding within subsidence influence under this facility.
- 5 This submission complete with it's attachments is presented for NSW Planning Guidance. We aim for the best outcome that can be achieved for the environment, Lake Macquarie and the many parties that are dependent on this Environmental Assessment.

Yours Faithfully, ------W McArthur Acting Hon Secretary 26/10/2012

Attachments



ATTACHMENT 14

43 Cheapside Street Rathmines,

## N.S.W. 2283

10<sup>th</sup> October 2012

Cardno(NSW/ACT)Pty Ltd

Level 9, The Forum,

203 Pacific Highway

St Leonards N.S.W 2065

Dear Sir/Ms

Drop-in Community Information Session Wednesday 10 October 2012 4pm to 8pm Councillors Workroom Council Administrative Building 126-138 Main Road, Speers Point

## Questions

1

1. Why were other disused tips(Kilaben Bay & Dorrington Rd) present in the vicinity of Kilaben Bay not mentioned in the Environmental Assessment of Additions to Awaba Waste Management Facility?

The Rathmines Progress Association (RPA) understands that Kilaben Bay Tip (approx 475,000M. It was never capped properly and water continually leaches from the tip after rain. The only thing covering it is lantana vine and spots of morning glory vine. It has very steep batters (approx 1:1.5). The upper areas have been left in a disgraceful condition and dangerous state with sharp garbage and broken bottles sticking out all around the very steep batters. This site is now classified a Crown Land Reserve. At the base of the garbage mound is heavy dis-colouration, still pools in the upper section had an absence of the normal healthy pond e.g. mosquito wrigglers, water boatmen, tadpoles or frogs. They do not support animal life to the naked eye. We enquired of the head of *Landcare*, if the tea trees growing out of the still water would deter animal life and was told no. The dis-coloured area should be tested by the Environmental Protection Authority as a matter concerning public health. At lower the tidal interchange area there was proof of small fish and healthy movements in the water.

TACHMENT 14

- Dorrington Rd Tip (approx. 725,000<sub>3</sub>) which also drains into Kilaben Bay and is intended to be longwalled (LW110 &LW111) also. Please advise if this tip was capped when closed.
- 3. The RPA has had a number of meetings with Centennial coal regarding the Newstan Life Extension and Subsidence Management Plan Longwalls 101 to 103 going back to 8th March 2012 where Kilaben Bay and Dorrington Rd tips were mentioned and written issues papers left with them. It is very concerning that as LMCC staff/consultants have been in contact with Centennial Coal for around at least twelve months. Please advise if any of this information was received by you.
- 4. The EIS did not disclose asbestos disposed of at this facility. It is understood that all asbestos submitted to Awaba Waste Facility (AWMF) is required to be doubly wrapped and taped. It is also understood that there is a register kept of asbestos weight delivered, name and address of person or company bringing asbestos to the tip. Please supply total quantities for the last two years.
- Please give timeline construction of proposed 2.5 km sewer pipeline from AWMF to Rathmines No.6 WWWPS. i.e. before or after longwall 110 & 111 is completed.
- 6. It is the understanding of the RPA that in the event of an environmental catastrophe from leachate spill into the local creeks or Kilaben Bay whether from the AWMF and/or privately owned pipeline, the onus of proof in on Lake Macquarie City Council(LMCC) (us as ratepayers) to prove in the first instance that it was not LMCC's fault. Even though there has been longwalling under either LMCC asset. Is this correct.
- 7. It is understood that significant quantities of gas are released upon longwalling. Please advise if the LMCC AWMF methane gas capture and energy generation on site has any dangerous conflict with released gas from the longwall underneath.
- 8. Two of our members visited the information session held in LMCC Council Chambers on 24/05/2012. The attached Community Forum Questionnaire attached asked about environmental degradation of Stockyard Creek. To which there was not a follow up. In the Subsidence Management Plan from Centennial Coal there were issues of reference is made to Appendix 10 Surface Water Impact Assessment GHD Page 72. Almost the whole page is indicating higher than ANZECC trigger results for Lords, Stockyard and Kilaben Creeks for levels of aluminium, iron, chromium, copper, and zinc. Please advise if you were aware of this.
- Please advise of the AWMF of final submission final public submission date to NSW Planning.

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10. Could you please advise your email as there may be more questions as the RPA examine AWMF Environmental Assessment?

Finally by the geographical location of the RPA, its members consider that we are stakeholders in this process.

Our members and communities, swim, fish, eat, sail, and generally enjoy Kilaben Bay and the broader waters of Lake Macquarie. We respectfully request to be included in the information streaming between Lake Macquarie City Council and Centennial Coal with reference to this Environmental Impact Assessment

Yours Faithfully,

W McArthur

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Acting Secretary

# **Rathmines**



**PROGRESS ASSOCIATION** 

ATTACAMENT 15

WS marrows

Postal Address: THE SECRETARY

> 43 Cheapside Street. Rathmines, N.S.W. 2283

Mr K Wood , The Managing Director, Hunter Water Corporation, P.O. Box 5171, HRMC, N.S.W. 2310

Hunter Water - Fresh Water Main Break 16 Hillcrest Avenue Rathmines & Sewer Main Break Off Dorrington **Road Rathmines** 

I refer to the attached eight photos of the above fresh water main, which burst slightly before it was reported to your call centre at 11.15am on Friday 16th March 2012, refer incident no.379270.

Photo 1 - Main Burst 16 Hillcrest Avenue Rathmines

Photo 2 - Back Lane behind Cheapside Street Rathmines running between Hillcrest Ave & Dorrington Rd

Photo 3 - Cheapside Street Rathmines running towards Dorrington Road Rathmines

Photo 4 - Water ingress front yard 43 Cheapside Street Rathmines

Photo 5 – Water ingress front yard 43 Cheapside Street Rathmines Photo 6 – Water ingress back courtyard 43 Cheapside Street Rathmines

Photo 7 - Water ingress side yard 43 Cheapside Street Rathmines

Photo 8 - Water ingress other side yard 43 Cheapside Street Rathmines

Two other properties namely 45 and 47 Cheapside Street were affected by water during this incident, besides the above.

This latest water ingress at 43 Cheapside Street Rathmines, is the third event in a very short period.

It is understood that this is the seventh attendance to this main since June last year.

This Association is aware that new freshwater pipe was laid in Rosemary Row, Oakwood Road and Part Clydebank Road Rathmines around March 2011. However this does not solve the constant breaks in Cheapside Street and flooding which has happened twice, in short regularity at the above properties.

Could you please give me the age of this main. Please note, I do not want average mean age.

Could you please explain the constant problem on this street.



On another matter, it is understood there was a major sewer main failure near the pumping station off Dorrington Road at the western end of Kilaben Bay. It is understood that there is a 750m sewer line along the shoreline to which it connects.

Veolia environmental tankers were evidenced at your property off Dorrington Road and also taking sewerage from the pumping station at Letchworth Parade Balmoral over a considerable period around 16th March 2012.

Could you please advise:

From to date of sewer main failure 1.

- 2. Quantity of sewer water removed from Rathmines by environmental tanker during the break.
- 3. Was there a sewer spill into Kilaben Bay? Yes/ No. will do.

The Westlakes Sewerage system when laid around 1990/1991 circa, was a great improvement for Lake Macquarie and the residents living here. This Association is not looking to pick fault with Hunter Water but

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ATTRACTMENT 15

would like the questions above answered as a matter of common courtesy.

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Yours Faithfully,

10 d/ Ullun 30/3/2012



Hunter Water Corporation ABN 46 228 513 446 Customer Enguiries 1300 657 657

customer Enquiries 1300 657 657 enquiries@hunterwater.com.au PO Box 5171 HRMC NSW 2310 36 Honeysuckle Drive NEWCASTLE NSW 2300

20 April 2012

The Secretary Rathmines Progress Association 43 Cheapside St RATHMINES NSW 2283

Dear Sir/Madam

## **Rathmines Water and Sewer Main Failures**

Thank you for your letter to Managing Director dated 30 March 2012 regarding watermain breaks in Hillcrest Avenue and Cheapside St Rathmines and the recent break of our sewer rising main off Dorrington Road. Below is a detailed response to the questions the Association has raised

### Watermain Breaks

Regarding the recent watermain breaks in Cheapside St (note: this main supplies 16 Hillcrest Ave), the Association has requested information about the age of the watermain, the recent watermain construction south of this area and the frequent breaks in Cheapside St. The main appears to have been constructed in three sections, presumably as the area progressively developed. At the southern end of Cheapside Street the main was constructed in 1950, the middle section in 1960 and the northern section in 1967. It is noted that the later constructed mains have been more susceptible to breaks. The watermain in Cheapside Street is still well within its expected service life.

The water supply to the Rathmines area is from the Toronto 2 reservoir located at Mount Waring Rd, Toronto. Due to the topography in the area the lower properties such as those in Hillcrest Ave and Cheapside St would experience excessively high pressure if supplied unregulated from Toronto 2 reservoir. Therefore Hunter Water operates a pressure reducing valve to reduce the pressure on the mains in these areas to moderate levels. Without this pressure reducing arrangements, the mains would be subject to higher pressure and would most likely experience a higher frequency of breaks. The recent construction works to the south of the subject area was to replace the lead-in watermain and pressure reducing valve that supplies to Hillcrest Ave and surrounding area. The new assets were constructed to improve the reliability of supply to the general area and are to the benefit of customers in Hillcrest Ave and the surrounding area. It is noted that the new pressure reducing valve has pressure sensors on both sides of the valve, which will raise an alarm in Hunter Water's monitoring system to indicate a problem with the valve or a watermain break in the area, hence allowing Hunter Water to respond more efficiently to such events.

A number of leaks have occurred on the main which have been repaired with a clamp and without interrupting the water supply. However significant breaks occurred on the 15 June 2011 and 16 March 2012. On both of these occasions, issues occurred at the pressure reducing valve which let unregulated pressure through to the lower areas and resulted in pressure in the mains more than twice the regulated pressure. This higher pressure

www.hunterwater.com.au

ATTACHMENT 15

Ref: HW2011-485/25

ATTACHMENT 16

essentially found weaknesses in the system and caused a significant break with high pressure water gushing out of the main. Hunter Water have investigated these breaks and believe that measures are now in place to avoid similar occurrences.

Based on the historical breaks of the main in Cheapside St, this main does not currently qualify for replacement. However, Hunter Water continually monitors the performance of such mains and has a process in place which lead to the eventual replacement of the main when is has reached the end of its serviceable life.

The watermain in Cheapside Street is still within its expected service life, however Hunter Water will monitor its performance and replace the main if deemed appropriate. The recent construction works to the south of the area are to the benefit of customers in Hillcrest Ave by providing new lead-in infrastructure to improve the reliability of supply to the general area.

#### Sewer Rising Main Break

Regarding the recent sewer rising main breaks off Dorrington Rd, the Association has requested information about Hunter Water's response and was sewage discharged to Kilaben Bay.

A member of the public notified Hunter Water on Tuesday, 13 March at 8:19am of a sewer surcharge, flowing into Stockyard Creek. Hunter Water field staff arrived on site approximately one hour later. A failure had occurred on the Rathmines No. 6 sewer rising main (600mm diameter ductile iron main laid in 1992) located off Dorrington Road, just before the rising main crosses under Stockyard Creek. The rising main receives pumped sewage flows from the Rathmines 6 wastewater pumping station, which is a critical asset of Hunter Water receiving pumped sewage flows from some 25 pump stations in Rathmines, Fishing Point, Wangi, Kilaben Bay and Coal Point.

The break occurred in water charged ground beside Stockyard Creek, making access to the site difficult. A temporary access track had to be constructed before works could commence. Additionally, before commencing repairs, both groundwater and the sewer in the rising main needed to be dewatered. It is noted that the rising main is approximately 3m deep in poor ground conditions due to the fact that the rising main goes under the creek. A temporary repair of the rising main, using a stainless steel clamp, was completed on the evening of 16 March 2012. A permanent repair was subsequently completed on 22 March 2012, involving installing a new section of pipe.

Hunter Water had no other option than to operate tankers day and night to intercept the sewage flows at the WWPS, until the temporary repair was completed and during the period that the permanent repair was being affected. The volume of sewage tankered was not measured however up to 8 to 12 tankers were used at any one time. It is noted that the section of failed pipe showed signs of localised corrosion, and has been sent for metallurgical assessment to better understand the failure mechanism.

As mentioned above, sewage overflow did reach Stockyard Creek adjacent to the location of the sewer rising main break. Hunter Water implemented the tankering arrangements to stop the continuation of the overflow to the creek until the pipe could be repaired. On a daily basis, Hunter Water's environmental officers completed visual assessments and took samples at up to 8 locations within Stockyard Creek and Kilaben Bay. Nutrients from the overflow were found to be largely contained to Stockyard Creek and where being consumed by the natural environment. It is noted that at no time was any marine life observed to be in distress, nor did sample results indicated the need to erect no swimming signs in Kilaben Bay.

ATTACITATENT 15

I trust that the above information addresses the questions raised by the Association, however should you have any further queries please do not hesitate to contact Mr Glen Robinson, Relieving Manager Network Operations on (02) 4979 9489.

Yours Sincerely

"in Circle

Chris Turnbull Chief Operations Officer

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Postal Address: THE SECRETARY

Rathmines, N.S.W. 2283

43 Cheapside Street,

AFTACAMENT

Mr G Robinson, Relieving Manager Network Operations, Hunter Water Corporation, P.O Box 5171, HRMC NSW 2310 Your ref HW2011-485/25

Dear Sir,

## Rathmines Water and Sewerage Main Failures

In regards to the reference above and copy attached.

- Could you please advise: 1. What created the corrosion?
  - 2. What kind of corrosion is it ?

  - Did the corroded pipe have any inside lining fitted?.
    Is Hunter Water Corporation confident there is no other corrosion present in the pipeline which could lead another water breach.

Yours Faithfully,

W McArthur

19/10/2012 . A Hach