

Tea Tree Gully Gem & Mineral Club Inc. (TTGGMC)

Clubrooms: Old Tea Tree Gully School, Dowding Terrace, Tea Tree Gully, SA 5091.

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Web Address: https://teatreegullygemandmineralclub.com

"Rockzette"

Tea Tree Gully Gem & Mineral Club News

President's Report

Hi All.

Only 21 days to go to our Biennial Exhibition...in the meantime everything appears to be falling in to shape. All we must do now is wish for good weather.

Please take note of page 2 of this newsletter. Your contribution over the weekend will help the Exhibition run smoothly...

Cheers, Ian.

Diary Dates / Notices

Happy Birthday

Members celebrating July birthdays: July 11th Raelene Jessop. July 27th Ron Lewis.

TTGGMC 2019 Biennial Exhibition Saturday July 20th and Sunday July 21st, 2019.

Items wanted for the Biennial Exhibition White Elephant Stall ... bring to clubrooms.

Also, helpers are needed...see page 2.

More notices and links on page 19.

General Interest

Pages 3 to 5: Augie's July 2019 Agate and Mineral Selections ...



General Interest

Page 5: MESA Journal...



Pages 6 & 7:

Ian's July 2019 Biggenden Collection Selections ...



Pages 8 & 9: Augie's Mineral Matters - Obsidian ..



Pages 10 to 12:

Members Out and About - Janet & Mel's Train Chase ...



Pages 13 to 18:

'Newcastle and Rail - The Never-ending Story' ...



Page 19:

Notices and Useful Internet Links Members'



The Tea Tree Gully Gem & Mineral Club Inc. is not and cannot be held responsible or liable for any personal injuries, loss or damage to property at any club activity, including, but not limited to, meetings, field trips, all crafts and club shows. An indemnity is to be signed by all participants before each and every field trip activity they attend.

Club Activities / Fees

July

Edition

2019

Club meetings are held on the 1st Thursday of each month except January.

Committee meetings start at 7 pm. General meetings - arrive at 7.30 pm for 8 pm start.

Library

Librarian - Augie Gray

There is a 2-month limit on borrowed items. When borrowing from the lending library, fill out the card at the back of the item, then place the card in the box on the shelf.

When returning items, fill in the return date on the card, then place the card at the back of the item.

Tuesday Faceting/Cabbing

Tuesdays - 10 am to 2 pm. All are welcome. Supervised by Doug Walker (7120 2221).

Wednesday Silversmithing

Wednesdays - 7 pm to 9 pm. All are welcome. Supervised by Augie Gray (8265 4815 / 0433 571 887)

Thursday Cabbing

Thursdays - 10 am to 2 pm. All are welcome. Supervised by Augie Gray (8265 4815 / 0433 571 887).

Friday Silversmithing

Fridays - 9 am to 12 noon. All are welcome. Supervised by John Hill (8251 1118).

Faceting/Cabbing/Silversmithing Fees:

A standard fee of \$3.00 per session applies - to be paid to the session supervisor.

In the interest of providing a safe working environment, it is necessary to ensure everyone using the workshops follow the rules set out in Policy No. 1 - 20/11/2006.

It is necessary that Health and Safety regulations are adhered to always.

Everyone using the workshop must ensure:

- that all club equipment (e.g. magnifying head pieces, faceting equipment, tools, etc.) used during the session, is cleaned, and returned to the workshop after usage.
- · that all workstations are left in a clean and tidy
- that all rubbish is removed and placed in the appropriate bin;
- · and where applicable, machines are cleaned and oiled or dried.

NOTE: The Tea Tree Gully Gem & Mineral Club Inc. will not be held responsible or liable for any person injured while using the club machinery or equipment.

Club Subscriptions:

\$20.00 Family Pensioner \$25.00 Family \$12.50 Single Pensioner \$15.00 Single \$10.00 Joining Fee

Tea Tree Gully Gem and Mineral Club Incorporated, Old Tea Tree Gully School, Dowding Terrace, Tea Tree Gully, South Australia, 5091

*** Upcoming Club Exhibition ***

Helpers needed

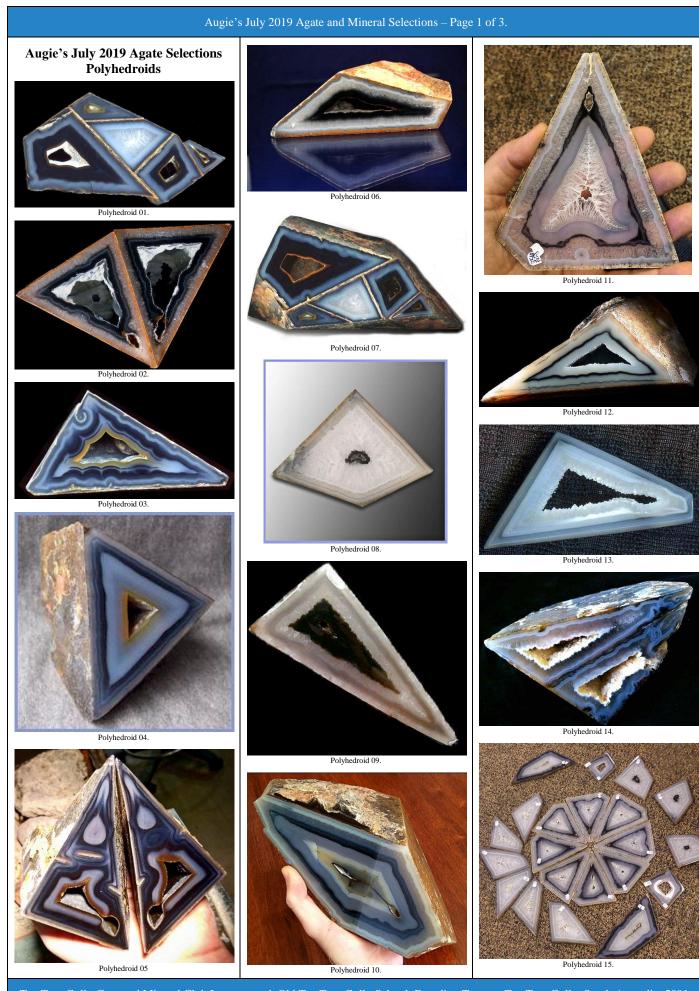
The Club's Exhibition is coming up fast – the weekend of the **20**th & **21**st of this month.

Helpers are needed in the following areas:

- Making or donating food items for the canteen
- Unloading, setting up & dressing (putting skirts & top covers on) trestles on Friday morning
- Helping in the canteen or on Club stalls during the weekend
- Relieving on the door
- Security (circulating to keep an eye out for people with light fingers)
- Decommissioning trestles etc. after Sunday's close.
- Whatever else is needed

If you can assist **YOUR** Club for a few hours, it would be greatly appreciated.

Please let any Committee member know how & when you'd like to help.



 $Tea\ Tree\ Gully\ Gem\ and\ Mineral\ Club\ Incorporated,\ Old\ Tea\ Tree\ Gully\ School,\ Dowding\ Terrace,\ Tea\ Tree\ Gully,\ South\ Australia,\ 5091.$

Augie's July 2019 Mineral Selections...



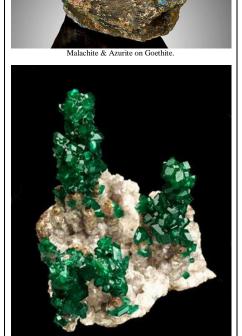
Amethyst on Quartz, Jackson Crossroads, Wilkes Co., GEORGIA.



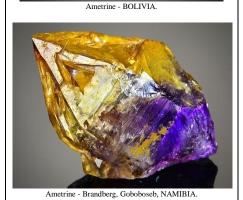




Calcite & Amethyst.



Dioptase on Dolomite.





ONA. Conti

Moldavite - Besednice, CZECH REPUBLIC.

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Augie's July 2019 Agate and Mineral Selections – Page 3 of 3.

Augie's July 2019 Mineral Selections. Continued.



Hollandite in Quartz





Stewardite & Phosphosiderite



Titanite - Caspar quarry, Bellerberg volca Eifel, Rhineland-Palatinate, GERMANY volcano, Ettringen, Mayen,



Latest advances in South Australian geoscience and resource sector news







A sniff of the ocean in the Miocene at the foothills of the Musgrave Ranges - unravelling the evolution of the Lindsay East Palaeovalley

Continued next column ...

Geoscience benefitting community



Hidden water in remote areas - using innovative exploration to uncover the past in the APY Lands

News



Oil and gas bids open

Exploration blocks released in the Cooper and Otway basins.

Read more...



Andamooka Precious Stones Field

ILUA sees new areas of land open for opal mining.





Upper Spencer Gulf in the spotlight

Premier's Awards recognise excellence in local procurement. Read more.



SARIG open data catalogue

Making spatial metadata discoverable. Read more.



Snapshot in time

60th anniversary of Innamincka 1 drilling. Read more..







Convergence on the Coast

Structural geology, tectonics and solid earth geophysics conference. Read more

Useful downloads...

MESA Journal 89: a compilation of feature articles from the February and April 2019 online editions (PDF 20.6 MB) ...

Click/tap on this link to download MESA Journal back issues...

Click/tap on this link to select and download



Opal var. Hyalite on Topaz - Tepetate, Mun. de Villa de Arriaga, San Luis Potosi, MEXICO.

Ian's July 2019 Biggenden Collection Selections.



0056 Quartz, Biggenden, QUEENSLAND.



0057 Quartz and Calcite, Biggenden, QUEENSLAND.



0218 Quartz, Biggenden, QUEENSLAND.



0219 Quartz and Pyrite, Biggenden, QUEENSLAND.



0334 Quartz, Biggenden, QUEENSLAND.



1206 Quartz, Biggenden, QUEENSLAND.



1277 Ankerite on Quartz and Calcite, Biggenden, QUEENSLAND.



1279 Calcite on Quartz, Biggenden, QUEENSLAND.





1283 Calcite on Quartz, Biggenden, QUEENSLAND.



1284 Quartz and Calcite on Magnetite, Biggenden, QUEENSLAND.





1300 Calcite, Biggenden, QUEENSLAND.



1301 Calcite on Quartz, Biggenden, QUEENSLAND. Continued next page...

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Ian's July 2019 Biggenden Collection Selections.



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Contributed by Augie Gray...

Mineral Matters Obsidian

Obsidian is a volcanic glass. It forms when lava that contains large amounts of silica cools without forming crystals. This generally happens when a volcano extrudes lava, rather than deep within the magma chamber. Obsidian is usually black but can be many other colours. Some of the best-known varieties are Mahogany, Snowflake, Rainbow, Velvet, Gold sheen and Silver sheen, but several others are known, such as Flower (also known as Fireworks), Copper sheen, Spider, Fire and Damascus.



Apache Tears 1



Apache Tears 2.



Composition

Obsidian has a chemical composition that is very similar to other kinds of rock, such as Rhyolite and Granite, but its physical structure is very different. Because it has no crystalline structure, amorphous Obsidian is not classed as a true mineral, but as a mineraloid.



Copper sheen

Why does obsidian cool without forming crystals? Partly because the lava that will become Obsidian is very sticky. This high viscosity combined with a lack of included seed crystals to form patterns for crystal formation may be part of the reason why this glass hardens without crystallizing. In addition, the temperature difference between liquid Obsidian and solid Obsidian is very slight. Therefore, Obsidian solidifies before crystals can form.



Damascus 1



Damascus 2



Gold sheen 1



Snowflake Obsidian, however, is a type of obsidian that includes crystals of Cristobalite. Cristobalite is a white polymorph form of quartz created at high temperatures. It can form delicate patterns across the surface of some obsidian specimens. Sheen and Rainbow obsidian are two other varieties of volcanic glass with inclusions, but in this case, the inclusions are gas bubbles that were mixed into the stone during its formation.



Continued next page...



Mineral Matters – Obsidian – Page 2 of 2.

Mineral Matters Obsidian - Continued....

Uses

Many cultures have made knives, spear points, and arrowheads from obsidian. The lack of crystalline structure allowed each stone to be shaped to an edge of molecular thinness. Obsidian scalpels have found some uses in modern society, because of their sharp edges and lack of reaction to magnetism.



Green 2

















Spiderweb 1.



Spiderweb 2.



Velvet 1.



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Members Out and About - Janet and Mel's Train Chasing Video Safari - Page 1 of 3.

Contributed by Janet and Mel Jones...

Janet and Mel's Train Chasing Safari Saturday, June 1st and Sunday, June 2nd, 2019

The Safari involved car-chasing Pichi Richi Railway's 'Afghan Express' on Saturday and steam locomotive Yx141 on its return to service on Sunday.

On Saturday the Pichi Richi Railway ran their Afghan Express (narrow gauge passenger train hauled by their steam locomotive NM25) from Port Augusta to Quorn in the morning and returned to Port Augusta in the afternoon.

Janet and I car-chased the Afghan Express in both directions. And, along with other enthusiasts took video snippets at various locations of interest. Part of the challenge was to get to locations before the train and before ideal positions to video from were taken.

The video snippets were taken in 4K format using my Sony FDR-AX53 Digital 4K Camera Recorder.

The pictures featured here were extracted from the video.

Watch our 'Afghan Express' video on YouTube by clicking/tapping on the following

//www.youtube.com/watch?v=xenB3X2tg80&t=826s

Saturday June 1st - 'Afghan Express'.



01. Afghan Express - Port Augusta Railway Station.



02. Afghan Express - leaving Port Augusta heading for Quorn.



wealth Railways steam locomotive 4-8-0 NM25



04. Afghan Express - nearing road crossing at Stirling North.



05. Afghan Express.





07. Afghan Express - Entering the Woolshed Flat siding.



08. Afghan Express - Crossing the iron bridge at Woolshed Flat.



09. Afghan Express - the climb continues



10. Afghan Express.



11. Afghan Express



12. Afghan Expres



13. Afghan Express



14. Afghan Express arriving at Quorn



15. Afghan Express at Quorn Railway Station



17. Leaving Quorn Railway Station and heading to Port Augusta.



18. Arriving at 'The Summit' - highest point on the journey



19. A slight blockage being dislodged in the smokebox.

Janet and Mel's Train Chasing Safari Saturday June 1st - 'Afghan Express'. Continued...



20. Afghan Express at 'The Summit' - ready to move on



21. Afghan Express - on the chase again.



22. Afghan Express - crossing the lattice-girder bridge



23. Afghan Express - not far to go now.



24. Afghan Express - back at Port Augusta Railway Station.

Learn more about the Pichi Richi Railway Afghan Express by clicking/tapping on the following hyperlink:

https://www.pichirichirailway.org.au/trainservices/afghan-express

Sunday June 2nd – 'locomotive Yx141 on its return to service'.

Watch our video of 'steam locomotive Yx141 on its return to service on Sunday' on YouTube by clicking/tapping on the following hyperlink:

 $\underline{https://www.youtube.com/watch?v=ggApFFXa9Bo}$

On Sunday 2nd of June 2019, along with many fellow enthusiasts and tourists, we joined in with train activities of The Pichi Richi Railway (based at Quorn, in the lower Flinders Ranges region of South Australia).

The Pichi Richi Railway celebrated the return of steam locomotive Yx 141 to active service. (Yx 141 was withdrawn from service in 1963 and restored by Pichi Richi Railway volunteers). The return of YX 141 was officially blessed at 10am at the Quorn railway station. Then at 10.30am, Yx 141 hauled its first public passenger consist on a return trip from Quorn to Woolshed Flat.

Janet and I car chased Yx 141 on its return trip from Quorn to Woolshed Flat. And, along with other enthusiasts took video snippets at various locations of interest. Part of the challenge was to get to locations before the train and before ideal positions to video from were taken.

The train trip was well patronised by the public (and I was told that an extra carriage had been attached to accommodate extra bookings). This may have contributed to the restarting dilemma experienced at the 'Summit' on the outbound leg of the journey...captured on this video.

The pictures featured here were extracted from



01. Official public blessing for Yx141 returning to service.



02. Yx141 ready to go



03. Yx141 already working hard.



04. Yx141 leaving Quorn Railway Yard heading for Woolshed Flat.



05. Yx141 chugging towards 'The Summi



06. Yx141 almost to The Summi



07. Yx141 made stationary before crossing The Summi



08. Yx141 made ready to proceed but fails to move



09. After several more attempts Yx141 goes



10. Yx141 eventually proceeds over 'The Summit'.

Members Out and About – Janet and Mel's Train Chasing Video Safari – Page 2 of 3.

Janet and Mel's Train Chasing Safari Saturday June 2nd – 'Steam locomotive Yx141 on its return to service'. Continued...



11. Yx141 on a downhill run to Woolshed Fla







14. Yx141crossing iron bridge near Woolshed Flat



15. Yx141making slow progress back to 'The Summit'.



16. Yx141making slow progress back to 'The Summit'.



17. Yx141making slow progress back to 'The Summi



18. Yx141 making slow progress back to 'The Summit'.





20. Yx141 Closer to 'The Summit



21. Yx141 given the flag to enter the Quorn Railway Yard.



22. Yx141 almost to the Quorn Station



23. Yx141 almost to the Quorn Station



24. Yx141 returned to the Quorn Railway Station.

Learn more about steam locomotive Yx141 by clicking/tapping on the following hyperlink: https://www.pichirichirailway.org.au/events/up coming-events/yx141-returns-to-service

Contributed by Doug Walker...









Contributed by Mel Jones...

'Newcastle and Rail – The Never-ending Story' by Garry Reynolds Part 10A of 24...



The Newcastle City waterfront today where Aborigines once fished from canoes, convicts hewed coal and a railway system developed and disappeared over a period of 160 years. Source: Familypedia.



The classic view from the Western Signal Box in the Newcastle Railway Precinct when steam was at its zenith. Source: Newcastle Herald.

The Great Northern Railway reaches Newcastle

Newcastle was Australia's 7th largest city until 2015. It is approximately 167 kms by rail from Sydney Central Station to Newcastle Station.



Early railway-era train at Newcastle Station. Source: Flickr.



Newcastle Railway Yard c1880s. The pole with a round marker assists shipping channel navigation. *Source: Flinders*.



Newcastle Customs House and East End Railway Yard, the photo taken from a ship at Queens Wharf. Source: Newcastle Herald.



A busy Newcastle Railway Precinct c1870s with the passenger platforms on the mid-left and the East End Marshalling Yard in the centre and 'The Dyke' being constructed in the mid-right background. Source: Newcastle Herald.



Late 1800s colourised photo of a ship at Queens Wharf at the Eastern end of Newcastle Station Precinct, Nobbys Head and signalling station and Dalgety's large wool store in the centre of the Yard. Source: Newcastle Herald.

The Newcastle Railway Line used to branch off the Main Northern Line at Hamilton Junction (from 1887) after leaving Broadmeadow Station and travel in an easterly direction through Wickham and Civic Stations to Newcastle Station.



The imposing Newcastle Station with Customs House clock tower adjacent. Source: Flickr.



Postcard from 1908 of a train gliding out of Newcastle Station. Source: Newcastle Herald.



Fettlers set off to inspect the line out of Newcastle Station. Source. Uni of Newcastle.



Newcastle Station with the Customs House in background and departing 30 class-hauled suburban train adding to the atmosphere with plenty of smoke and steam. Source: Newcastle Herald.



A locomotive trundles through traffic in the main street of Newcastle Post-WW2. Source: Newcastle Herald.

Continued next page ...



Newcastle East End Yard in the 1970s full of end platform cars but after the arrival of the 600/700 class interurban diesel cars for Hunter region traffic. Source: Newcastle Library.

The Great Northern Railway Extension into Newcastle

From East Maitland, the opening stage of the Great Northern Railway carried coal, general goods and passenger traffic as far as Honeysuckle Point when it opened in 1857. Meagre maintenance facilities were established at Honeysuckle near what was much later Civic Station.



Newcastle Harbour with Kings Wharf in the foreground and The Dyke in the background with early railway facilities near Honeysuckle Station in the 1860s-70s. Source: Newcastle Herald.



The well-dressed staff at Honeysuckle Station in 1908. Source: Uni

The Honeysuckle Workshops grew as the isolated Great Northern Railway system developed. Even when the first Hawkesbury River Railway Bridge linked Newcastle with Sydney in 1889, a bright future for the Workshops seemed assured.



Honeysuckle Railway Workshops established in 1856 with the opening of the Great Northern Railway from Maitland. It included a loco shed, carriage repair shed, carriage painting shop, machine shop, carpenter's shop, blacksmith's shop, wheel shop, boiler house and foundry. Source: Hidden Hamilton.



Honeysuckle Railway Workshops in 1911. Source: Flickr.

However, in 1892, a locomotive depot was built in the triangular area of land formed by the line from: Newcastle toward Maitland; the line from Hamilton toward the Hawkesbury River; and the line between Waratah and Broadmeadow, which in effect joined the Great Northern Railway to the line to Sydney. The locomotive depot took over many of the functions of the first depot in the Newcastle area at Honeysuckle Point.



Hamilton Station in the days of steam, gaslight and semaphore signals. Source: NSW Government Records.

A ten-road engine shed, and workshops were built in the Hamilton Junction triangle. By the turn of the century, the site had become a very active depot with coaling facilities, a rest house for engine crews and busy locomotive workshops. However, the locomotive activities were eventually relocated to Broadmeadow in 1924, where two complete 42-road roundhouses were built. The Hamilton Depot was closed.



Coal stage at Broadmeadow. Source: Bing Image:



The impressive Broadmeadow Coal Stage. Source: Major an Ray Collection.



Broadmeadow locomotive roundhouses in the days of transition from steam to diesel. *Source: SwiftDSL*.



A Broadmeadow Roundhouse on a quiet Sunday afternoon. Source Graeme Reid.



AD 60 class Beyer Garratts at Broadmeadow with early diesel

In 1925, it was also decided to abandon harbourside Honeysuckle as another locomotive centre and to build more modern facilities on a site where greater expansion could take place at Cardiff (more in the future).

Meanwhile, regarding Newcastle Station, back in 1858 the Great Northern Railway was extended a couple of kilometres into the heart of Newcastle from Honeysuckle. The original Newcastle Station building was erected a year later, and the line duplicated in 1864. Until its use ceased on Boxing Day 2014, the Station was one of the longest continually used railway places in NSW.



Newcastle Station Precinct in 1935 with Kings Wharf and the Boa Harbour and Market in the foreground and the Station terminus in the mid-ground and Queens Wharf and the spur into the East End Marshalling Yard in the background with the smoke from Zaara St Power Station in the top corner. Source: Coal River.

The adjacent, but now closed, Civic Station opened a lot later in 1935, as part of a foreshore city improvement scheme initiated in 1929, to replace Honeysuckle Station.

Continued next page...

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The role of Civic Station was to service the administrative heart of the Central Business District. Its architecture was designed to complement the Civic Theatre, City Hall and Civic Arcade on the opposite side of Hunter Street.



The final touches being made for the opening of Civic Station in 1935. Source: History Notes.

Further back up the Branch Line, Wickham Station opened a year later to serve Newcastle West as a part of an upgrade to the Newcastle City Centre public transport system. It was convenient to the Newcastle Trades Hall, the Wickham School of Arts, the Store Cooperative Society, and the Castlemaine Brewery. Honeysuckle Station was demolished.

Now Wickham Station is being redesigned into a transport interchange as the end of the branch line and terminal for the new 2.7 km light rail system running towards Nobbys Beach.

However, the move has created ongoing controversy with one local whit saying online:

"Truncating the rail at Wickham makes as much sense as parking your car two blocks from your destination and then hailing a taxi for the remainder of the trip."



Protesters take to the trains during their failed campaign to save the rail service into Newcastle Station. Source: Newcastle Herald.



Newcastle Railway Precinct. Source: Newcastle Now.

Architectural and rail status

Quaintly, the technique of using architecture to delineate railway status in the NSWGR showed all along the Branch Line into Newcastle including the use of a slightly older design at Wickham Station compared to stylish Civic Station.

Both stations were significant showpieces and with their modern functionalist style served as a gateway to the City, with civic pride and renewal front and centre. Ironically, they have lost their rail role in the current waterfront and city renewal drive as the track through their platforms was removed after closure at the end of 2014.



Civic Station with track removed, 2017. Source: Rob Rouse.

The Funeral Transport Package

Another station which has long gone was the Mortuary Station which was added to the rail facilities at Honeysuckle in 1883. Two street tram hearses serviced it, conveying corpses to its departure platform. Tram hearses were used by the deceased's family and mourners in Newcastle from 1896 until about 1948.

In 1881, a daily Funeral Train service was in operation leaving Newcastle at 3:20pm and stopping at intermediate stations on the way to the platform at Sandgate Cemetery. In the railway terminology of the day:

"The corpse travelled free and friends of the corpse had a choice: two shillings first class return or one shilling second class return."

As an aside, in the early decades of Newcastle's settlement, the Anglican Church's graveyard was situated on the hill overlooking the town. During times of heavy rain, water seeped from the hill to the low ground where many of the people lived and obtained their drinking water from wells.

At times, these residents experienced epidemics of serious infectious diseases. A Newcastle doctor, Richard Bowker, realised that it was unhealthy to drink water that had seeped through a burial ground full of rotting corpses. In response, a major new multi-faith cemetery at Sandgate on the fringes of the then Newcastle boundaries was established and obtained rail connection.

Most funerals that emanated from the City of Newcastle used the combination of the dedicated Funeral Train and tram hearses. The demand arose from the working-class practice of arranging for a funeral procession to depart from the home of the deceased or a close relative rather than a funeral parlour, saving money in the process.

If the home was close to a tram route, the pallbearers carried the casket to the nearest tram stop and awaited the arrival of a regular service – perhaps a confronting sight to today's sensibilities to see a coffin by the kerb.

Otherwise, a hearse was hired to carry the casket to the stop. On arrival of the tram at the stop, it was the responsibility of the pallbearers to place the coffin in the tram hearse attached to the rear of the passenger tram cars.

The mourners, minister and funeral director would travel in the passenger tramcars, initially steam powered, and later electric, on a scheduled service, usually with the funeral party separated from the other passengers going about their business.

On arrival at the Mortuary Railway Station, pallbearers removed the casket and transferred it to the Funeral Train destined for Sandgate Cemetery's railway platform. After the Mortuary Station at Honeysuckle closed in 1933, the tram hearses met the Funeral Trains at Newcastle Station.



A steam tram trundles along Scott Street approaching Newcastle Station in the 19th century. Source: Newcastle Herald.



Alighting the Funeral Train in 'Sunday Best' clothes at Sandgate Cemetery. Source: Newcastle Herald.



The disused railway alignment and platform at Sandgate Cemetery Source: Northern Cemeteries.

The Newcastle Museum, part of the former Honeysuckle Railway Workshops, owns one of the tram hearses. Quirkily, when it was decommissioned in 1949, it ended up at the Hamilton Tram Depot workshop where it was used as a toolbox!

Continued next page...



A Newcastle tram hearse. Source: Newcastle Museum.

Decades later, during restoration, a dried flower was found in a tram hearse recalling its original function from 1896. It is preserved for display with the vehicle.

After the Mortuary Station closed, the Funeral Train service continued until 1987. However, by the 1930s, new gravesites had to be excavated quite a distance from the Sandgate rail platform, which had been sited centrally in the original cemetery. At the same time, motor funerals were becoming more common and convenient. Yet, even as late as 1985, two trains ran into Sandgate Platform on a Sunday afternoon for people to visit graves - the last of the type of service in Australia.

Features of the Newcastle Rail Precinct

Regarding freight, the Newcastle Goods Yard was constructed just East of Newcastle Station in 1858 and linked to the wharf area, later with a spur onto Macquarie Pier joining the Nobbys Lighthouse. The Precinct catered for freight and passengers, but the main line and this branch would also be linked to privately-owned collieries; away from the centre of Newcastle shipping coal to the loading railway staithes and steam cranes at the wharves.



A coal train being shunted to make up a consist to depart East Greta Colliery for ship loading at the Port of Newcastle. Source:

In the 1920s, up along the Hunter River the once thriving port of Morpeth saw its feeder line rail traffic from the East Greta Junction decline due to changes in the transportation of wool and improvements to wharf facilities at Newcastle. The Morpeth Branch Line closed in 1953. By the late 1980s, the Newcastle East End Yard's time was up too. It was removed to allow the area to be redeveloped as a bus station and park land.

While many additions and alterations were made to Newcastle Station over the years, perhaps the construction of two official residences in 1884 reflected the important status of Newcastle and the pecking order within the arcane world of the New South Wales Government Railways (NSWGR) bureaucracy.

The house closest to the Station was provided initially for the Traffic Manager, who was the most senior officer on the entire Great Northern Railway. Its intricate ornamentation reflected his status. It was one of the grandest houses every built for a NSWGR officer.

Adjacent, is the more architecturally restrained Newcastle Station Master's residence. Combined with the Station Master's residence at Honeysuckle built in the same period, the status of the short Newcastle branch line from Broadmeadow was highlighted as it was the only location in the Colony where consecutive stations possessed two-storey residences for their respective Station Masters.

There is also an ornate Paymaster's Office near Newcastle Station. It was originally built by the NSWGR in 1900 for the Berthing Master when the Railways controlled all the wharves on the South side of Newcastle Harbour.

The residence is a well-proportioned building displaying Georgian characteristics and constructed to a high standard, reflecting the importance of Newcastle and the status of this financial role.

Security was imperative and all Paymasters carried pistols. After the 1950s, they were trained to shoot in the abandoned tramway tunnels designed by JJC Bradfield, Sydney Harbour Bridge Engineer, between Wynyard and the Bridge.

Newcastle Railway Station's status was also reinforced by it possessing a large carriage shed located in an area known as the Coaching Yard where the passenger cars were cleaned and kept cool during Summer.

The Newcastle Station precinct had a gas works to light its buildings plus platforms and also provide gas for the carriages' tanks to illuminate the passenger car interiors.

There is also a prosaic World War 2 brick building in the Newcastle Station Precinct. At its peak, it provided a staff facility for 42 porters working at the Station and 23 train guards. Even here, at the minutest level, the railway status-issue reared its head where the senior rank of guard was acknowledged by the allocation of full-length clothes lockers whereas the porters received only half-length lockers.



The Newcastle Railway Refreshment Room in 1909. Source Newcastle Herald.

In the 1920s, with significant civic redevelopment of the Precinct, the status of the Newcastle Station had become an important

issue once again. There were ongoing demands for a new Station to be erected as part of scheme of foreshore redevelopment and to modernise the Central Business District – sounds like today. Plans for a new terminal serving a seven-track terminus were made. Nothing happened.



Newcastle Railway Goods Sheds looking East towards Newcastle Station and the Customs House Tower circa 1920. Source: Newcastle Herald.

Again, in the 1960s, the then Minister for Transport, Milton Morris, announced a new Newcastle Station would be built and detailed cost estimates were made. Nothing happened.

Now the Station's time has gone as a rail terminal with track removed and proposals to turn the gracious building into a fresh produce market.



The former Newcastle Station track alignments paved over in preparation for a new use perhaps as a fresh food market. Source: Renew.

Zaara Street Power Station

All traces have disappeared of another major building in the Newcastle Railway Precinct – the Zaara Street Coal-Fired Power Station. It was strategically located next to the East End Marshalling yard for the supply of coal to generate power for the NSWGR from 1915 onwards. Surplus capacity in the Railway Commissioner's power grid was sold to municipal councils and other bodies responsible for the supply of electricity to the general public. It provided much of Newcastle's electricity needs throughout the 1920s.



Fort Scratchley in the foreground with the Newcastle Station Precinct and Zaara Street Power Station in 1935. Source: Coal River

Continued next page...



Newcastle East End Marshalling Yard dominated by steam, adjacent to Zaara St Power Station. Source: Flickr.



Zaara St Power Station overlooks the railway yard. Source: Newcastle Library.

The Zaara St Power Station operated until 1971 before being demolished in 1978. Its footprint and all Marshalling Yard railway facilities in the vicinity were redeveloped into what is now known as 'The Foreshore'.



Zaara St Newcastle after removal of the East End Railway Yard and the Power Station. The railway-style sheds are part of an historical memorial to the previous roles of the area. *Source: Newcastle Herald.*

Still, the 1930s Newcastle Signal Box remains intact and is likely to feature in future foreshore redesign.



Newcastle Signal Box and former track alignment, 2017. Source: Rob Rouse.



Newcastle Box signal frame, 1985. Source: Graeme Skeet.

The rail development North

In the mid-1800s, faced with growing commerce between Sydney and Newcastle and the difficult and often impassable road system or the longer sea voyage, the Colonial Government of New South Wales decided to build a railway joining its two largest cities.

The construction of the Great Northern Railway faced many challenges. The task was so big that it had to be built in isolated sections over several decades.

As part of the project, massive infrastructure spending and leading-edge technology would be required to drive Australia's longest rail tunnel and construct its longest rail bridge at the time.

What could go wrong?

Not a lot for decades but then things unravelled alarmingly at the worst possible time with massive risks of impending catastrophe – but more on that next week.

The Route

Everything was 'Great' in the 1800s - well at least the names of the railway trunk lines and roads in NSW. In convict times, the Great Northern Road was built. However, while a marvel of stone engineering and forced human effort, it was greatly underutilised.

Alternatively, while shipping dominated the link between Sydney and Newcastle the new technology of steam railways beckoned.

The original Great Northern Railway branched off the Great Western Railway at Strathfield. Today, what is known more prosaically as the Main Northern Line, wends its way through dense suburbia as a four-track electrified path to Rhodes. It then shrinks to double track to traverse the Parramatta River expanding back to four tracks running from West Ryde to Epping.

The line is then largely double track through the northern suburbs of Sydney as it runs along the sandstone Hornsby Plateau and down the Cowan Bank to cross the Hawkesbury River Railway Bridge.

The line soon cuts a swathe through the Central Coast landscape, running spectacularly along waterways such as Mullet Creek. The railway then saunters across the sandstone plateau to Broadmeadow where electrification ends before the line proceeds to Brisbane.



Big steam at Broadmeadow in 1972 with Beyer Garratt AD 6029 passing 5914. Source: David Patterson.

Broadmeadow Yard was the principal traffic terminating and originating hub for the Hunter Valley Region. Most goods trains stopped or started here, only some fast fruit, perishables and fast stock trains passed straight through to the major goods yards in Sydney.

Broadmeadow also had the main locomotive depot North of Sydney. It included two turntables, two roundhouses, a large elevated coal stage and servicing facilities for a big fleet of passenger locomotives. Meanwhile, all the coal traffic locomotives and many freight engines were based at the Port Waratah Depot.



Victorian-era classic rail architecture with the Broadmeadow Signa Box and Gates, Source: State Records.

Broadmeadow Station, itself was a major interchange point for northbound passenger and mail traffic. Most of the main Northern express and mail trains changed engines here, suited for the lesser main lines to the North e.g. changing a heavy 38 Class for a lighter 35 or 32 Class locomotive.

Leaving Broadmeadow, the line quadruples, with separate Up and Down Mains and Relief lines in parallel to Woodville Junction. Here the line divides, one line swinging North through Islington Junction, to Waratah (and points North) and the goods lines to Port Waratah and Bullock Island, and the other line swinging East towards Newcastle, via Hamilton and Wickham where it now terminates, where once it used to go on to Civic Station and Newcastle Station. Honeysuckle and Newcastle goods yards fed local goods traffic from Newcastle itself, and the Hunter River wharves, for onward forwarding from Broadmeadow Yard. However, many of the old colliery lines that used to feed into the Northern Line have been abandoned.



Newcastle Station featuring Inter-City electric traction. Source Smart Money Guide

The Construction

In the early years, development in the North of the Colony proceeded slowly as there were no gold discoveries to drive development nor rapid population growth.

Between the outer edges of Sydney and Newcastle, much of the land along the coast and sandstone plateau was very poor for agriculture leading to sparse settlement.

Continued next page...

Because of the 'rail gap' of the Hawkesbury River, Newcastle was connected by rail to Queensland before Sydney. The NSW Government pursued the political savvy option of appealing to the more northern rural electorates, especially as there had been simmering ambitions to secede from the capital and the South of New South Wales as the people felt ignored and short-changed.

As a result, after the completion of the Great Northern Railway from Maitland into Newcastle, the line was extended towards Brisbane, reaching Singleton in 1863, Muswellbrook in 1869 and Scone in 1871, before finally reaching the Queensland border at Wallangarra in 1888.

As a slight diversion from our focus on Newcastle, on the Northern border several demonstrations of intercolonial railway pig headedness were displayed by the rival colonial governments at their most spiteful. They made State of Origin Football look like child's play!

Of course, first there was the inevitable difference of gauges with Queensland's narrow and NSW's standard gauge misaligning.

Unable to agree on one town on the border to be the rail centre, there had to be two small towns separated by a rural log fence — Wallangarra in Queensland and Jennings in NSW. The railway station was in Wallangarra, but its marshalling yard was in Jennings.



Queensland/NSW State border between Wallangarra Railway Station and the Jennings Railway Yard. Source: Wikimedia.

But then taking the NSWGR's obsession with status architecture to the nth degree, when the Wallangarra Station had the typical Queensland curved awning erected on the narrow-gauge platform, NSW insisted that it had to have a NSWGR-style skillion awning on the opposite standard gauge platform.



Wallangarra Station with the narrow-gauge track on the left and the standard-gauge on the right with accompanying awnings. Source:

Of course, with the differing gauges, when in World War 2 there were major threats in the North of Australia from the Japanese, transhipment facilities had to be massively expanded in the Jennings Yard with the time-consuming task of moving every bit of freight and military materiel from a standard-gauge wagon to a narrow-gauge Queensland Railway wagon.

An ammunition dump was established at Jennings in WW2 due to the break-of-gauge as was a general army store in Wallangarra. Of course, dual tracks had to be run to each military facility.

Again, even today, the NSW Jennings Public School is sited virtually opposite the Wallangarra School in Queensland when the NSW town only has a total population of 211.

To finally illustrate the meaninglessness of all the interstate rail rivalry, a survey of the Queensland/New South Wales border conducted as a 'Centenary of Federation Project' in 2001, found an error of 200 metres in the original border survey, conducted between 1863–66. The modern study indicated that if the border was placed where originally intended, Jennings would be in Queensland rather than New South Wales!

To be continued in the August edition...

Contributed by Doug Hughes...

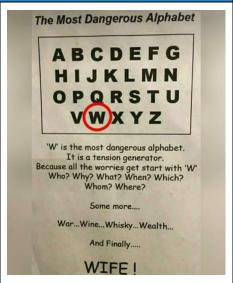
Signs at the Indian Hills Community Centre in Colorado











Contributed by Allan Rudd...

"A, B, C, D, E, F, G, H, I, J, K."

After being married for thirty years, a wife asked her husband to describe her.

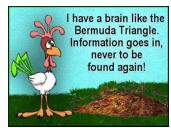
He looked at her for a while, then said, "You're an alphabet wife...A, B, C, D, E, F, G, H, I, J, K."

She asked, "What the hell does that mean?" He said, "Adorable, Beautiful, Cute, Delightful, Elegant, Foxy, Gorgeous, and Hot" She smiled happily and said, "Oh, that's so lovely ... but what about I, J, K?" He said, "I'm Just Kidding!"

The swelling in his eye is going down, and the doctor is cautiously optimistic about saving his - - - - icles.







Members' Noticeboard



** URGENT **

Items wanted for Exhibition White Elephant Stall ... bring to clubrooms.

Contributed by Wendy Purdie...



Passing on this message from Brian Boyle, manager at Gemcuts. Brian is now manufacturing Gemmasta, quality Australian made lapidary machines. Getting back into production in their new home in Ballina NSW.

This is the first batch of machines back from powder coating and ready for



Click/tap on the following hyperlink to access the Gemcuts website: https://www.gemcuts.com.au/

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Greg Vort-Ronald

0413796279 or luv2paint@iprimus.com.au all boxes and flats are folded together, no staples required (Prices subject to change)

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