

\* Original outlet red circle on 2001 aerial photo of coastline including recently formed road connecting South Golden Beach with Wooyung.

# The Report of the North Byron Shire Flood Mitigation Working Group

AREA 1: Resteration of the natural flood outlet currently blocked at Billinudgel Nature Reserve north of Fern Beach (GPS 153.5506, - 28.4856).

Natural flood overflow location at North Ocean Shores.

Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856).





Note: 1987 creek outlet is blocked by gravel road build for light vehicle access. (See slide 14 ... letter from General Manager to Councillors Dec 2, 1986.)

Natural flood overflow location at North Ocean Shores.

Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856)





1976 North Ocean Shores **outlet closed** and **dune stabilisation** undertaken at the outlet mouth. *(see slide 13 - Deputy Premier's letter to Council 1982)* 

Natural flood overflow location at North Ocean Shores.

Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856).











Channel Nine News Story - Mother's Day 1987



Natural flood overflow location at North Ocean Shores.

Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856).



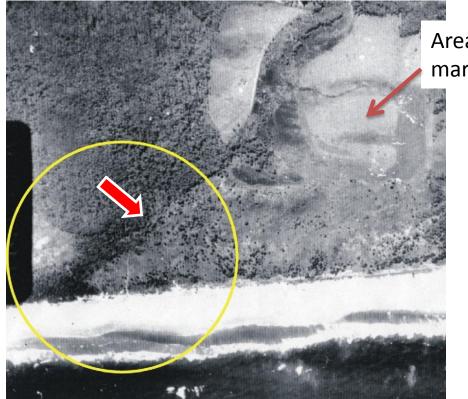


1947 Outlet location.

Natural flood overflow location at North Ocean Shores.

Billinudgel Nature Reserve north of Fern Beach (153.5506, -28.4856)





Area 1 landform marker identification

1944 closer inspection of the North Ocean Shores flood outlet. *Note: 45 degree angle of the natural channel to the overflow outlet feeding from the landform marker (6 shape).* 

Creek outlet in natural state. Billinudgel Nature Reserve north of Fern Beach (153.5506, -28.4856)





Creek outlet looking north

Creek outlet looking south

1974 natural creek outlet open and flowing.

AREA 1: Creek outlet. Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856).





1974 Ocean Shores Stage 2 Development underway ...

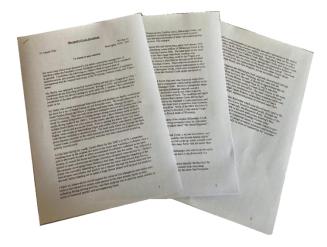
The Report NBSFMWG 15/4/2025

Creek outlet in natural state. Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856).





Creek outlet in natural state. Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856).



1974 creek outlet open and flowing.



# **Opinion excerpt 31st August 2005:** The Marshalls Creek Floodplain Ocean Outfalls

**Ian Fox** - An account of the area in the 1960's Southern Cross University Environmental Resource Management

' it is therefore not unreasonable to conclude that cumulative alterations to the natural drainage and blocking of ocean outfalls over the last 60 years are having a significant effect on the Marshalls Creek Floodplain. Particularly overflow and additional floodwaters from Crabbes Creek, Billinudgel Creek and Yelgun Creek are now channeled into the Capricornia Canal, through the constrictive Kallaroo Court bund and eventually into the ocean at Brunswick Heads mouth. Contained water will find it's own level and unprecedented flood levels within North Ocean Shores, South Golden Beach and New Brighton are the inevitable result.'

Full letter...

https://brunswickvalley.com.au/flood-history/flood\_story51.pdf

Position of former creek outlet in 2025. Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856).

David Warth to provide images & video.





Photos and video showing the location of the outlet blocked by dunes and road.



Shive Engineurs. Report.

22/6/76 Allachment

#### 2. OCEAN SHORES - DIVISION 17 (03.6)

Pursuant to Minute 425 of Council's May meeting, I have discussed the closure of the temporary flood overflow with Princess Properties Pty. Ltd., The company has agreed to close the flood opening and to restore the ground to its original condition in accordance with its agreement with the Department of Lends. Associated with this most the Company will emerge the clear the wetervery with this work, the Company will arrange to clear the waterway from the existing New Brighton Road bridge upstream to the bend in Yelgun Swamp. An exchange of correspondence will confirm this arrangement.

I also discussed the possible effect of flooding in the New Brighton/South Golden Beach area as a result of closing this temproary flood by-pass. &r. Corben expressed the opinion that the Company would not be lieble for any claims in the future that works that have been carried out by the Company have resulted in an increase in flood height in these areas. I agree with Mr. Corben in this as the area of the flood plain which the Company has developed is only a relatively small proportion of the total flood-plain area. If the Company's works did have an effect on the height of any particular flood, this would only be marginal, satisfies the flood of 1 to 3 inches, and virtually impossible to graduly with any precision. New Brighton/South Golden Beach area as a result of closing this precision.

For Information.

2. OCEIN SHORTS - DIVISION 17 (03.6 539 Cr. Donoghue, Resolved that the information de rectived. Cr. Farrell.

BYROH SHIRE COUNCIL. ORDINARY MEETING.

27TH JULY, 1976

516

SHIRE ENGINEERS REPORT CONT.

#### 7. OCEAN SHORES BOHDING (03.6).

Further to Council's request to restore the old mining track in the vicinity of the temporary flood outlet north of New Brighton, a letter has been received from the Company indicating the method of construction proposed. Send fill will be placed in the opening in the duno, this will then be mulched, vegetation planted and fenced and the road gravellod The works will be joined to the existing land forms in easy curves and with minimum disturbance of existing vegetation.

Thave examined the proposal and inspected the site and consider that the works, as proposed, should adequately meet Council's needs.

As discussed at the June meeting, closure of this temporary outfall could have an effect on the flood levels in New Brighton, although, in my opinion, the effect would be very small end impossible to determine accurately. There is also the distinct possibility that the temporary outfall would be blocked when the flood occurred anyway, and, in that case, would have no effect whatsoever.

The company secks Courcils endorsement of its proposal and, there-by, effectively transferring the responsibility of whatever increased flooding may result from the works, from the Company to Council.

Recommendation :- That the Company's proposal to block the temporary outfall from the Yelgur catchment be approved by Council.

#### 7. OCEAN SHORES BONDING (03.6).

631 Cr. Knuckey. Resolved that the recommendation be adopted. Cr. Donoghuc.

### Document 1:

COUNCIL RECORDS PROVIDED BY OMBUDSMAN SHOWING COUNCIL RESOLUTION TO ACCEPT LIABILITY FOR FLOODING CAUSED BY COMPANY COMPLYING WITH REQUEST TO CLOSE OUTLET

1976 BSC Engineer's Report and Minutes of Council Meeting.

10 JUL 1939

OFFICE OF THE

MEUDSMAN

10



8 DEC 1982

SYDNEY

ng C J Shevellor. Buine Clerk, Byren Shire Council. Post Office Box 159, BYRON BAY NSM 2481.

#### Dear Mr Shevellar,

I refer to your letter of 15th Ootober, 1982 concerning the siltation of the North Arm of the Brunnwick River at New Brighton and proposing a flood study for the Main Arm of the Frunnsick River.

I am advised that officers of my Department met with your representatives on lith Novemour, 1952 to inspect and discuss the Brunswick River. My officers were of the opinicm that the floco behaviour of the North Arm of the Brunswick River will not be significantly improved by dreiging. Dredging will almost certainly accelerate the arcsion of the river banks and will further complicate an already delicately submed river and constal system. Council's roads at New Brighton are currently being timestened by banks erosion, and can best be protected with mittable rockwork.

The flooding problem of the North Arm is compounded by Ocean Shores intatu. It is of concern to me that the conditions of my Department's concurrence to the Ocean Shores Project have not been enforced by Council. The flood assessment for the development was made on the pasis that an ocean cutfell would be provided to reduce flood levels in the area, and the first stages of the development were approved subject to the outfall being constructed and maintained.

The texporury outfail which was constructed is and has been for sometims ineffective due to rond construction and due stabilisation secure the outfail mouth. Consequently, it is likely that existing residential development and any currently being approved on the lower parts of the estate is flood liable. This is contrary to the principles of sound flood liable. Policy and control is likely to be in an invidious position in the event of flooding and canage to property. Council would therefore be well advised to undertake immediate remedial measures to allowiate this situation.

I have noted your request for financial assistance to carry out a flood study of the Main and of the Branswick River. Requests have even received for anialar studies of other river valeys but funds are fully committed. However, wy offleers will assist in the preparation of a brief for the carrying cut of such a study which can be reconsidered for funding in 1983/8%.

Yours faithfully,

(Sad.) 1. J. Forguson Deputy Prealer and

Minister for Public Works and Ports

### **Document 2**:

1982 L. J. Ferguson Deputy Premier Minister for Public Works and Ports letter to Council.

Regarding the temporary outfall being ineffective due to road construction and dune stabilisation across the outfall mouth ...

'Council would therefore be well advised to undertake immediate remedial measures to alleviate this situation.'





Ocean Shores Estate Report

Attached is a copy of the report prepared by Mr. P. Cranston, Civil Engineer, employed by the Council from 13th October, to 24th November, 1986.

The summary should be read in conjunction with the decision of Council on 25th November, to convene a meeting with the peveloper and other representatives.

The Developer contacted me through a representative and later by solicitor seeking an opportunity to respond to the report before it was issued to the public. It is full that the report should not be withheld, however advice is firstly being sought from Sly and Russell regarding any possible causes of action against the Council and/or its employees in regard to the report.

Further advice therefore will be forwarded to you as soon as a report is received from Sly and Russell.

It is necessary under the circumstances that the contents of the report be not released or discussed.

# R.L. RANGER.

(d) Flood Outlet

The flood level. Department is 3.4 metres on A.H.D. for a recurrence interval of This flood level is subject to a flood relief structure in the ture of a flood outflow to be constructed through the frontal beach dune with outfall to the A temporary device by cutting a wide slot through the dune was undertaken in conjunction with the land development works mid 1970's, but for ns that vehicular access along the beach road was denied to ordinary wehicles by the destruction of the gravel road and also natural forces were in the process of re-establishing the beach dune, the dune and be re-established. By approving this action Council has accepted the liability for subsequent flooding, not only of the Ocean Shores lots, but also those lots in the adjoining South Golden Beach. The concern of the Public regarding this matter has been expressed on a number of occasi with the construction of the permanent outfall structure is the the Lands Department that a surety be lodged for any necessary restorations. It is noted that Council has accepted liability for the mainte structure.

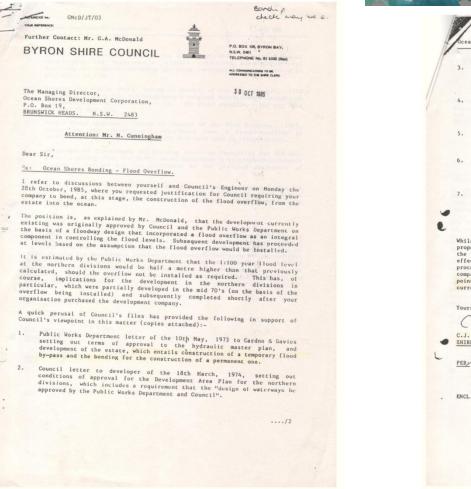
### **Document 3:**

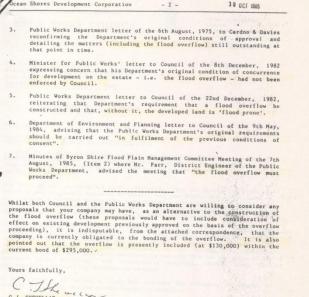
1982 Report to Councillors about the construction of a permanent flood outlet.

'By approving this action Council has accepted the liability for subsequent flooding, not only of the Ocean Shores lots, but also those lots in adjoining South Golden Beach.'

'It is noted that Council has accepted liability for maintenance of this structure.'







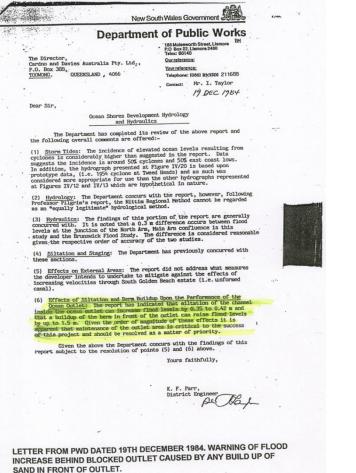
C.J. SHEVELLAR SHIRE CLERK.

PER: AL.Y

Document 4:

1985 Letter to OS Developers from Shire Clerk.





### **Document 5:**

1984 Public Works letter warning of increased flood levels behind blocked outlet caused by a build up of sand. Flood Strategy presented to Byron Shire Council ...



### **Report 1**:

**Proposal Brief presented to BSC:** To identify 3 locations along the coastline from Wooyung to the Brunswick River mouth to position flood pumps to remove excess flood water off the floodplain into the ocean in order to lower the flood levels on the floodplain at critical times during a major flood event.

### The location for the pumps were selected on the basis that they are:

1. Low elevation (around 1.2m/ 1.3 AHD), hence will be an area that will be inundated early in a flood event.

2. Still have semi-intact remnant drainage channels that will carry floodwater from overflow from Marshalls Creek or Billinudgel Nature Reserve.

3. Are located on Crown Land.

### The 3 locations identified are:

1. North of sports field at New Brighton (153.5491, -28.5037)

2. South of levee at SGB (154.5499, -28.4984)

3. Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856). Note: This is referring to **Area 1**.





### Location 3:

Note: This is referring to Area 1. Billinudgel Nature Reserve north of Fern Beach (GPS - 153.5506, -28.4856).



### *Committee members;*

Website : https://brunswickvalley.com.au/flood-history/north byron shire.htm

### Working Group

Cr David Warth David Brealey Mark Russell Jan Mangleson OAM (OSCA President) Denise Stammers (OSCA Treasurer) Margaret Kelly Jill Spring Heather Rowland Diane Boyd Graeme Boyd Michael James