





PRINCESS GARDENS FOUNTAIN TORQUAY

Condition Report – January 2018



Authors: Sara Moseley MBE – Contracts & Project Manager Lee Drage – Works Manager Sorel Townley – Designer Andrew Reed – Fabricator/Welder

Introduction

This report has been prepared following the removal and disassembly of the Princess Gardens Fountain and the purpose is to inform the Client of the condition and recommended way forward for each of the components.

A logical tagging method has been adopted to ensure all of the components are returned to the original position at reinstatement. In the next section a general assembly diagram is included detailing the naming convention used in the tagging scheme followed by a more detailed breakdown of the tagging/numbering scheme.

There are some important general points to note when considering this report:

General Notes

1. Condition

The condition of each component is indicated within the following sections of the report following disassembly and close inspection by Newton Forge operatives

2. Recommended Actions

The recommended action for each component is indicated using the following key:

| Newton Forge consider this repair critical for the strength and future safety of the fountain. Without this repair, it will be difficult, and in some cases impossible to reinstate the fountain to |
|--|
| fully working order. |
| Newton Forge consider that this repair is required. Failure to undertake this repair will not have |
| any immediate safety or visual impact but the component may deteriorate at a faster rate in the |
| future thus requiring further repairs in due course |
| Newton Forge consider that this component is in a sound condition and only requires cleaning |
| and re-painting |
| |

3. Comments

Additional comments for the attention of the reader have been added to each section where necessary.

4. General Pitting

On both Bowl No.1 and Bowl No.2 there is clear evidence of pitting (through the rust patches) which will probably have been caused by a fault in the casting process at the original foundry. Failure to fill the pitted surface of both bowls may mean that they will be prone to moisture ingress and rust patches may appear more quickly than if the surfaces are filled before painting

5. Fixing Bolts

The fixing bolts were drilled out owing to corrosion making it impossible to unscrew them. It will be necessary to remove the remaining stubs and re-tap the holes to attain an adequate thread for re-fixing.

6. Internal Pipework

With the exception of the cast section situated within Pedestal 2, the internal pipework is not included within this report because it is assumed that the plumbing will be undertaken by others. However, there will need to be close liaison between Newton Forge and the plumber to ensure this work is coordinated. MW Benney are requested to advise.

7. Photographs

Within this document, only photographs of Amber (Required) and Red (Critical) repairs are included.

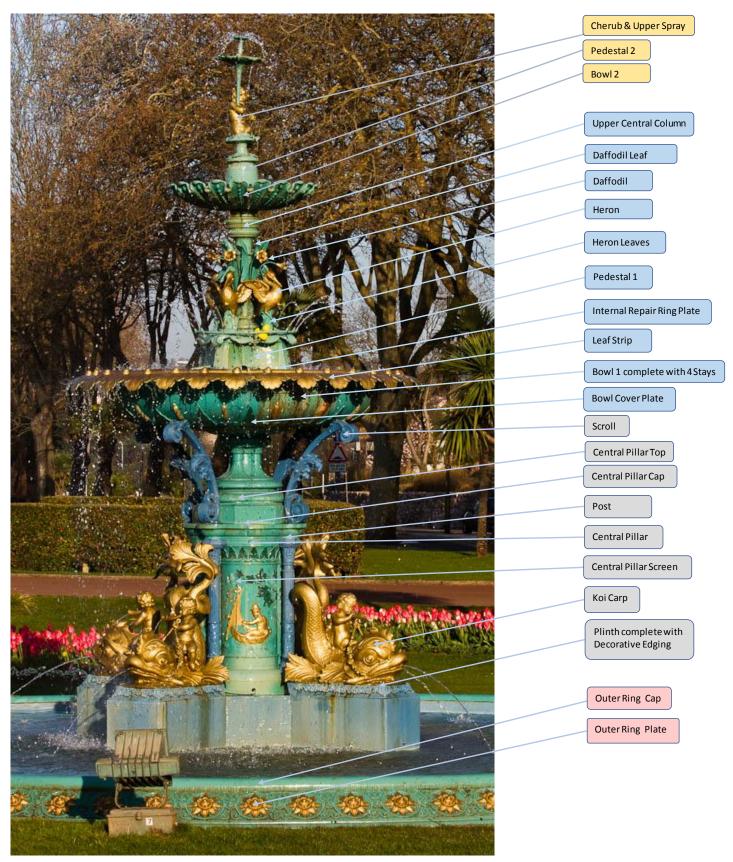
8. Shot Blasting

It should be noted that this assessment has taken place before shot blasting. Once authorised, the repairs will be undertaken prior to blasting and the media used will be commensurate with the component but Newton Forge cannot guarantee that further repairs may be uncovered. Newton Forge will inform MW Benney as soon as possible if this does happen.

A summary of the number of critical and required repairs can be seen at the end of the report.

General Assembly Diagram

The diagram below illustrates the naming convention that has been used to describe each component of the fountain for the purpose of tagging and compiling this report.



Tagging Scheme

The tagging scheme is further detailed in the tables below. All components have been tagged with metal tags in line with the scheme described and the report uses the same descriptions from this point forward.

| Level 2 - Second Bowl | | | | | |
|-----------------------|----------------------|--------------------|----------------|--------------|------------------|
| Bowl 2 | | | | | |
| Pedestal 2 | | | | | |
| | | | orth | | |
| Cherub & Oppe | | Cherub Faces N | | | |
| Level 1 - Fir | st Bowl | | | | |
| Bowl Cover Pla | te | 2 parts at base of | of bowl on the | outside | |
| Bowl 1 | | 4 x Stay/Brace | 1 - 4 | | |
| Central Colum | า | | | | |
| Internal Repair | Ring Plate | At base of bowl | on inside, cov | ering up cra | cks |
| Pedestal 1 | | | | | |
| Bowl - North Ea | ast Section | | | | |
| Heron 1 | Heron Leaf 1 | Daff Leaf 1 & 2 | Daff 1.5 & 2.5 | Stay 1 | Leaf Strip 1 & 2 |
| Bowl - South Ea | ast Section | | | | |
| Heron 2 | Heron Leaf 2 | Daff Leaf 3 & 4 | Daff 3.5 & 4.5 | Stay 2 | Leaf Strip 3 & 4 |
| Bowl - South W | /est Section | | | | |
| Heron 3 | Heron Leaf 3 | Daff Leaf 5 & 6 | Daff 5.5 & 6.5 | Stay 3 | Leaf Strip 5 & 6 |
| Bowl - North W | /est Section | | | | |
| Heron 4 | Heron Leaf 4 | Daff Leaf 7 & 8 | Daff 7.5 & 8.5 | Stay 4 | Leaf Strip 7 & 8 |
| Lower Foun | tain at Ground L | evel | | | |
| Inner Plinth - N | lorth East Section | | | | |
| Koi Carp 1 | Decorative Plinth 1 | Post 1 | Scroll 1 | Screen 1 | |
| Inner Plinth - S | outh East Section | | | | |
| Koi Carp 2 | Decorative Plinth 2 | Post 2 | Scroll 2 | Screen 2 | |
| Inner Plinth - S | outh West Section | | | | |
| Koi Carp 3 | Decorative Plinth 3 | Post 3 | Scroll 3 | Screen 3 | |
| Inner Plinth - N | lorth West Section | | | | |
| Koi Carp 4 | Decorative Plinth 4 | Post 4 | Scroll 4 | Screen 4 | |
| Central Pillar | | N, E, S, W | | | |
| Central Pillar C | ар | N, E, S, W | | | |
| Central Pillar T | • | N, E, S, W | | | |
| Pool at Gro | Pool at Ground Level | | | | |
| Outer Ring | | | | | |
| Pool Capping | 1 - 20 | Clockwise from | North Datum | | |
| Pool Plate | 1 - 23 | Clockwise from | North Datum | | |

Level 2 Second Bowl

| Level 2 - Second Bowl | | | | |
|-----------------------|--|-----------------------------|----------------------------|-------------------------------------|
| Bowl 2 | | Good | Cleaning & repainting only | See General Note 4. General Pitting |
| Pedistal 2 | | Good | Cleaning & repainting only | |
| Cherub & Upper Spray | | Part of Thumb missing on | Replace missing pieces and | |
| | | flower stem. Flower stem is | straighten out stem | |
| | | bent. Otherwise in good | | |
| | | condition | | |



Cherub & Upper Spray

Level 1 First Bowl

| Component Name | Component ID No. | Condition | Recommended Action | Comments |
|----------------------|---------------------|-----------------------------------|----------------------------|--|
| Level 1 - First Bowl | ID NO. | | | |
| Level I - First DOWI | | Crack on inside of bowl | Repair crack | |
| | | where cover plate is situated | | |
| Bowl 1 | | about 800mm long, full | | |
| | | penetration | | |
| Stay | 1 | Good | Cleaning & repainting only | |
| Stay | 2 | Good | Cleaning & repainting only | |
| Stay | 3 | Good | Cleaning & repainting only | |
| Stay | 4 | Good | Cleaning & repainting only | |
| Leaf Strip | 1 | Joint Sleeve to be extended | Extension Piece Reg'd | |
| Leaf Strip | 2 | Joint Sleeve to be extended | Extension Piece Reg'd | |
| Leaf Strip | 3 | Good | Cleaning & repainting only | |
| Leaf Strip | 4 | Joint Sleeve to be extended | Extension Piece Req'd | |
| Leaf Strip | 5 | Joint Sleeve to be extended | Extension Piece Req'd | |
| Leaf Strip | 6 | Joint Sleeve to be extended | Extension Piece Req'd | |
| Leaf Strip | 7 | Joint Sleeve to be extended | Extension Piece Req'd | |
| Leaf Strip | 8 | Joint Sleeve to be extended | Extension Piece Req'd | |
| Internal Repair Ring | | Very thin in places and very | Replace | |
| Plate | | corroded | | |
| Pedestal 1 | | | | |
| | | | | Newton Forge recommend that the upper central pillar and |
| Upper Central Column | | | | pedestal remains intact because further disassembly may |
| | | | | cause irrepairable damage on an otherwise sound |
| | - | | | structure. |
| Heron Leaf | 1 | Good | Cleaning & repainting only | |
| Heron Leaf | 2 | Good | Cleaning & repainting only | |
| Heron Leaf | 3 | Good | Cleaning & repainting only | |
| Heron Leaf | 4 | Good | Cleaning & repainting only | |
| Heron | 1 | Threaded stud on base is corroded | Repair stud | |
| Heron | 2 | Threaded stud on base is corroded | Repair stud | |

| Component Name | Component | Condition | Recommended Action | Comments |
|----------------|-----------|--------------------------------------|----------------------------|----------|
| | ID No. | | | |
| Heron | 3 | Foot missing | Replace Crane's Foot | |
| Heron | 3 | Threaded stud on base is corroded. | Repair stud | |
| Heron | 4 | Threaded stud on base is corroded | Repair stud | |
| Daffodil | 1.5 | Stem Broken | Repair Stem | |
| Daffodil | 2.5 | Intact but thinning at bolt holes | Repair Stem | |
| Daffodil | 3.5 | Stem Broken | Repair Stem | |
| Daffodil | 4.5 | Intact but thinning at bolt holes | Repair Stem | |
| Daffodil | 5.5 | Intact but thinning at bolt holes | Repair Stem | |
| Daffodil | 6.5 | Stem Broken | Repair Stem | |
| Daffodil | 7.5 | Stem Broken | Repair Stem | |
| Daffodil | 8.5 | Stem Broken | Repair Stem | |
| Daffodil Leaf | 1 | Good | Cleaning & repainting only | |
| Daffodil Leaf | 2 | Good | Cleaning & repainting only | |
| Daffodil Leaf | 3 | Good | Cleaning & repainting only | |
| Daffodil Leaf | 4 | Good | Cleaning & repainting only | |
| Daffodil Leaf | 5 | Good | Cleaning & repainting only | |
| Daffodil Leaf | 6 | Good | Cleaning & repainting only | |
| Daffodil Leaf | 7 | Good | Cleaning & repainting only | |
| Daffodil Leaf | 8 | Good | Cleaning & repainting only | |

Bowl 1

















Internal Ring Plate











Daffodil No.1.5



Daffodil No. 2.5



Daffodil No.3.5



Daffodil No. 4.5



Daffodil No.5.5



Daffodil No.6.5



Daffodil No.7.5



Daffodil No.8.5



Lower Fountain at Ground Level

| Component Name | Component | Condition | Recommended Action | Comments |
|-----------------------|-------------|--|----------------------------|--|
| | ID No. | 1 | | |
| Lower Fountain at | Ground Leve | | | |
| Decorative Plinth | 1 | Decoration is broken into multiple pieces, small pieces missing | Replace broken decoration | Although there is possibly further corrosion on the plinths under the decorative castings, Newton Forge recommend that they are left in tact because further dissassembly may cause irrepairable damage to an otherwise sound structure |
| Decorative Plinth | 1 | Plinth is broken into several pieces along front edge | Repair broken plinth | |
| Decorative Plinth | 2 | Good | Cleaning & repainting only | |
| Decorative Plinth | 3 | Plinth is broken along back side | Repair plinth | Slight wear of location point for Koi Carp 3 but this should not prevent reinstatement |
| Decorative Plinth | 3 | Decoration is broken on one side of plinth | Repair decoration | |
| Decorative Plinth | 3 | Small piece missing from opposite side | Build up missing piece | |
| Decorative Plinth | 4 | Good | Cleaning & repainting only | |
| Koi Carp | 1 | Good | Cleaning & repainting only | |
| Koi Carp | 2 | Koi in good condition but internal pipework is loose or broken in the horn decoration | Cleaning & repainting only | See general note No.6 Internal Pipework |
| Koi Carp | 3 | Missing Reins completely | Replace Reins | |
| Koi Carp | 4 | Missing Bottom part of one rein. Crack on underside of Cherub. | Replace Reins | |
| Koi Carp | 4 | Crack on underside of Cherub | Repair crack | |
| Central Pillar | | Lugs were removed in order to remove pillar from granite | Reinstate lugs | |
| Central Pillar Screen | 1 | Good | Cleaning & repainting only | Apart from the removal of the curved access door, the |
| Central Pillar Screen | 2 | Good | Cleaning & repainting only | central Pillar remains intact. Newton Forge recommend |
| Central Pillar Screen | 3 | Good | Cleaning & repainting only | that the central pillar remains intact because further |
| Central Pillar Screen | 4 | Good | Cleaning & repainting only | disassembly may cause irrepairable damage to an |

| Component Name | Component ID No. | Condition | Recommended Action | Comments |
|--------------------|---------------------|------------|----------------------------|-------------------------------------|
| Scroll | 1 | Good | Cleaning & repainting only | |
| Scroll | 2 | Good | Cleaning & repainting only | |
| Scroll | 3 | Good | Cleaning & repainting only | |
| Scroll | 4 | Good | Cleaning & repainting only | |
| Post | 1 | Good | Cleaning & repainting only | |
| Post | 2 | Good | Cleaning & repainting only | |
| Post | 3 | Good | Cleaning & repainting only | |
| Post | 4 | Good | Cleaning & repainting only | |
| Central Pillar Cap | | Good | Cleaning & repainting only | |
| Central Pillar Top | | Good | Cleaning & repainting only | |
| Bowl Cover Plate | | Reasonable | Very pitted | See General Note 4. General Pitting |

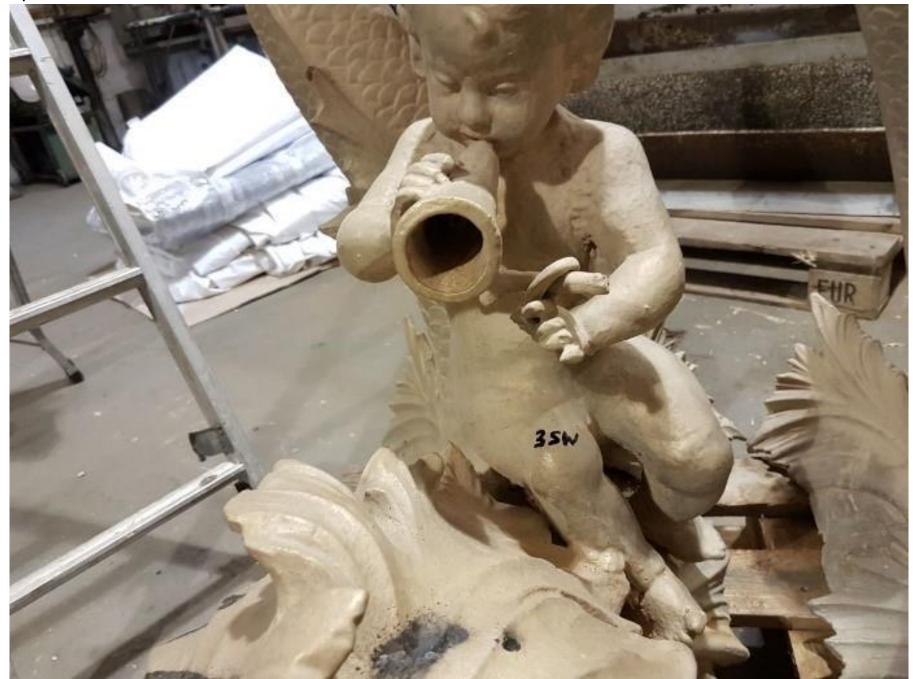
Decorative Plinth No.1



Decorative Plinth No.3



Koi Carp No.3



Koi Carp No.4



Pool at Ground Level

| Component Name | Component ID No. | Condition | Recommended Action | Comments |
|---------------------|---------------------|--|---------------------------------------|----------|
| Pool at Ground Leve | 4 | <u> </u> | | |
| Outer Ring Plate | 1 | Left hand top corner; underlap - piece missing | Replace missing piece to make good | |
| Outer Ring Plate | 2 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 3 | Left hand top corner; underlap - piece missing | Replace missing piece to make good | |
| Outer Ring Plate | 4 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 5 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 6 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 7 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 8 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 9 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 10 | Crack on Inside | Repair of Crack | |
| Outer Ring Plate | 11 | Large crack running through middle of casting | Repair of Crack | |
| Outer Ring Plate | 12 | Top left Corner Missing | Replace missing piece | |
| Outer Ring Plate | 13 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 14 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 15 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 16 | Top Left corner underlap- piece missing | Replace missing piece and Repair hole | |
| Outer Ring Plate | 17 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 18 | Good | Cleaning & repainting only | |
| Outer Ring Plate | 19 | Lug missing on bottom. Lug was cut off onsite to remove | Replace Lug | |
| Outer Ring Plate | 20 | Top Left corner underlap- piece missing | Replace missing piece and Repair hole | |
| Outer Ring Plate | 21 | Large crack running through middle of casting - Full penetration | Repair Crack | |
| Outer Ring Plate | 22 | Good | Cleaning & repainting only | |

| - | Component | Condition | Recommended Action | Comments |
|------------------|-----------|------------------------------|----------------------------|----------|
| Component Name | ID No. | | | |
| | | Top Right corner Overlap- | Replace Corner and | |
| Outer Ring Plate | 23 | piece broken off - Extensive | reinstate decoration | |
| | | enough to include a portion | | |
| | | of the decoration | | |
| Outer Ring Cap | 1 | 2 Large Cracks - Left hand | Repair of Crack | |
| | | side Foundry Plate intact | | |
| Outer Ring Cap | 2 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 3 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 4 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 5 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 6 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 7 | Good | Cleaning & repainting only | |
| Outer Ring Cap | o | Foundry Plate broken in 2 | Replace Foundry Plate | |
| Outer King Cap | 8 | places | | |
| Outer Ring Cap | 9 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 10 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 11 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 12 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 13 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 14 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 1 15 | Foundry Plate broken in 2 | Replace Foundry Plate | |
| | | places | | |
| Outer Ring Cap | 16 | Good | Cleaning & repainting only | |
| Outer Ring Cap | | Underlap Joint broken and | Replace missing piece and | |
| | | piece is missing | Repair hole | |
| Outer Ring Cap | 18 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 19 | Good | Cleaning & repainting only | |
| Outer Ring Cap | 20 | Good | Cleaning & repainting only | |









Outer Ring Plate No.12



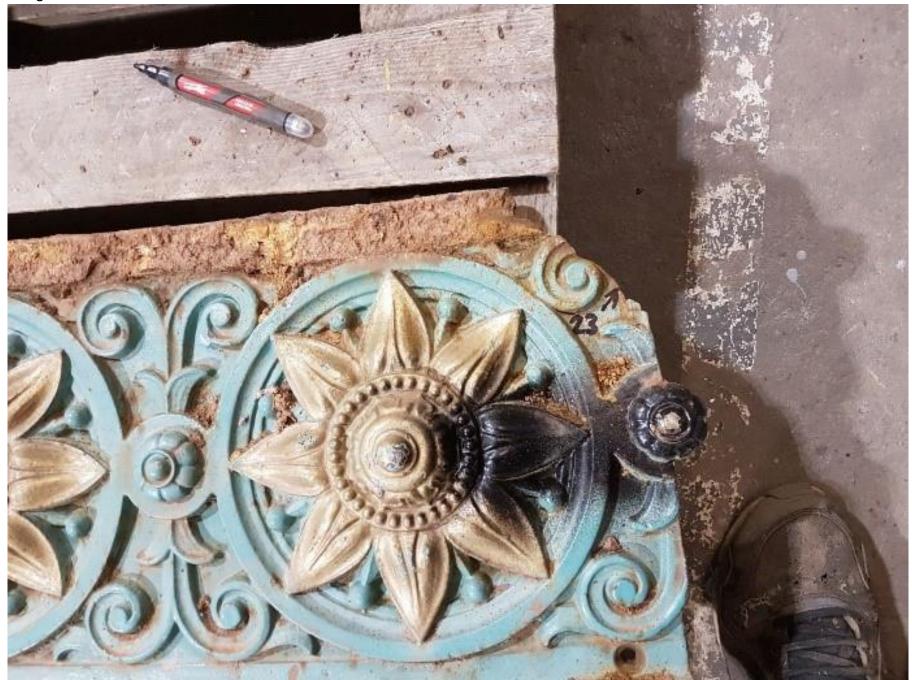






Outer Ring No.21













Conclusion

The Princess Gardens Fountain is in a reasonable condition overall with many of the components needing only to be cleaned (blasted) and repainted with hot zinc spray followed by primer and top coat with the colours yet to be specified.

However, the price accepted clearly stated that Newton Forge allowed for **20 repairs** only as it was difficult to assess fully prior to disassembly. In addition to the specific repairs noted, Newton Forge recommend that the pitting that can be seen in both bowls should be filled at this stage to increase the longevity of the hot zinc spray and paint and prevent rust patches coming through in years to come; this would require additional time within the workshop. A summary of the number of the critical and required repairs along with filling can be seen below along with the associated costs:

| Type of Repair | Quantity | |
|-------------------------|----------|--|
| Critical | 35 | |
| Required | 12 | |
| Clean & Repaint Only | 66 | |
| Filling of pitted bowls | N/A | |
| | Total | |