

Below Ground Wellheads Benchmark

22/12/2017

1. Summary

Works carried out at Main Pumps Station Well 2 as a part of the repairing of below ground wellhead project are:

- 1. External grouting
- 2. Internal sealing and lining of the well
- 3. Sealing of glands and ducts
- 4. Cable relocation
- 5. Installation of a new sump pump
- 6. Floor regrading and sump deepening
- 7. Installation of a secure, accessible well cover
- 8. Construction of a 2m apron around welll cover

The work undertaken on each component is considered to be the benchmark level required to minimise or elimnate water contamination from ground water and rainfall (or both).

Following are pictures of the finished works corresponding to the above list at Well 2 Main Pumps:

1.External Grouting

2/3.Internal Sealing and Lining of the Well



4.Cable Relocation



5/6. Floor Regrading (in progress)



7. Installation of Secure, Accessible Well cover



9. Construction of a 2m Apron around Well



2. External Grouting

Ideal Well Picture (Main pumps Well 2)



3. Cable Relocation

Ideal Picture (Main Pumps Well 2)



5. Install Secure Accessible Well Cover

Ideal picture (Main Pumps Well 2)



6. Construction of 2m Apron around well cover

Ideal picture (Main Pumps Well 2)



Timelines

The following high priority works will be completed by June 2018 – as these sites were assessed as having the highest potential risk of water contamination. There are 25 wells in this group. Of this, 16 wells require all eight (8) components of work to be undertaken. The remainder (nine) require lesser work in particular cable relocation.

In total 102 wells have been assessed, with the remainder (77) considered to be lower risk but still requiring remedial works. It is anticipated that this work will be completed by December 2018.

The table below identifies 25 wells, some with two work streams

Part 2: All other work		external Grouting Require	
Site	Well Number	Estimated Start Date	Estimated Finish Date
Main Pumps Station	Well 1	26/10/2017	13/11/2017
	Well 2	12/09/2017	3/10/2017
	Well 4	7/11/2017	23/11/2017
	Well 5	15/01/2018	26/01/2018
	Well 6	29/01/2018	2/02/2018
Grampian	Well 5	5/02/2018	23/02/2018
Farrington (Part 1)	Well 4	17/11/2017	27/11/2017
Grassmere (Part 1)	Well 3	4/12/2018	15/12/2017
Farrington (Part 2)	Well 4	26/02/2018	9/03/2018
Palantine	Well 1	12/03/2018	30/03/2018
Thompsons (Part 1)	Well 2	15/01/2018	24/01/2018
Sydenham (Part 1)	Well 5	26/01/2018	2/02/2018
Sydenham (Part 2)	Well 5	2/04/2018	6/04/2018
	Well 6	209/04/2018	20/04/2018
Thompsons (Part 2)	Well 2	23/04/2018	27/04/2018
Burnside (Part 1)	Well 5	5/02/2018	14/02/2018
Belfast (Part 1)	Well 1	15/02/2018	22/02/2018
	Well 2	26/02/2018	6/03/2018
Grassmere (Part 1)	Well 2	12/03/2018	16/03/2018
Mays (Part 1)	Well 2	19/03/2018	27/03/2018
	Well 4	26/03/208	3/04/2018
Redwood (Part 1)	Well 1	5/04/2018	12/04/2018
Burnside (Part 2)	Well 5	30/04/2018	9/05/2018
Belfast (Part 2)	Well 1	10/05/2018	18/05/2018
	Well 2	21/05/2018	29/05/2018
Blighs	Well 1	30/05/2018	13/06/2018
Grassmere (Part 2)	Well 1	14/06/2018	22/06/2018
	Well 2	25/06/2018	29/06/2018
	Well 3	2/06/2018	7/07/2018
Thorrington (Part 1)	Well 1	16/04/2018	24/04/2018
Bexley (Part 1)	Well 1	26/04/2018	2/05/2018
	Well 2	7/05/2018	15/05/2018
Brooklands (Part 1)	Well 1	16/05/2018	22/05/2018
Montreal (Part 1)	Well 1	23/05/2018	31/05/2018
	Well 2	4/06/2018	12/06/2018
St John (Part 1)	Well 1	14/06/2018	20/06/2018
Trafalgar (Part 1)	Well 1	21/06/2018	28/06/2018
	Well 2	29/06/2018	5/07/2018