NOVA FLOWTEC SERVICES LTD
HYDRANT TESTING SPECIALISTS

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23rd February 2024

James Kirkpatrick Group Limited
PO Box 512, Shortland Street
Auckland 1140

RE: Firefighting Water Supply at 538 Karangahape Road, Grey Lynn

Attention: Aoife Mac Sharry

Dear Aoife

Nova Flowtec Services were engaged to conduct a FW2 hydrant flow test for the proposed development at the above address.
The testing was conducted on Friday 23rd February 2024 at 6:40am.
The object of the testing was to prove that there is sufficient water for firefighting purposes.

Requirements:
In order to meet the FW2 minimum requirements of PAS 4509: 2008, 12.5Lps is required within 135m and an additional 12.5Lps is required within 270m of the development.
This being a total of 25Lps at a minimum residual pressure of 100kPa.

Results:
During testing the minimum requirement was met with 25Lps at 220kPa being recorded. Please find the results table and the hydrant map on the following page.

Testing was also carried out to assist with the sprinkler system design. You can find this on Page 3.

Should you have any questions please do not hesitate to contact me.

Kind Regards

Melanie Keane
Testing Manager

FW2 Water Classification Test

	Hydrant One	Hydrant Two	Total Flow (Lps)	Hydrant Three Pressure (kPa)
			0	230
Flow (Lps)	12.5		12.5	225
Flow (Lps)	12.5	12.5	25.0	220
Date & Time:	Friday 23rd February 2024 at 6:40am			
Site Address:	538 Karangahape Road, Grey Lynn			
Full Flow Result:	25.0Lps at 220kPa			

Hydrant Map

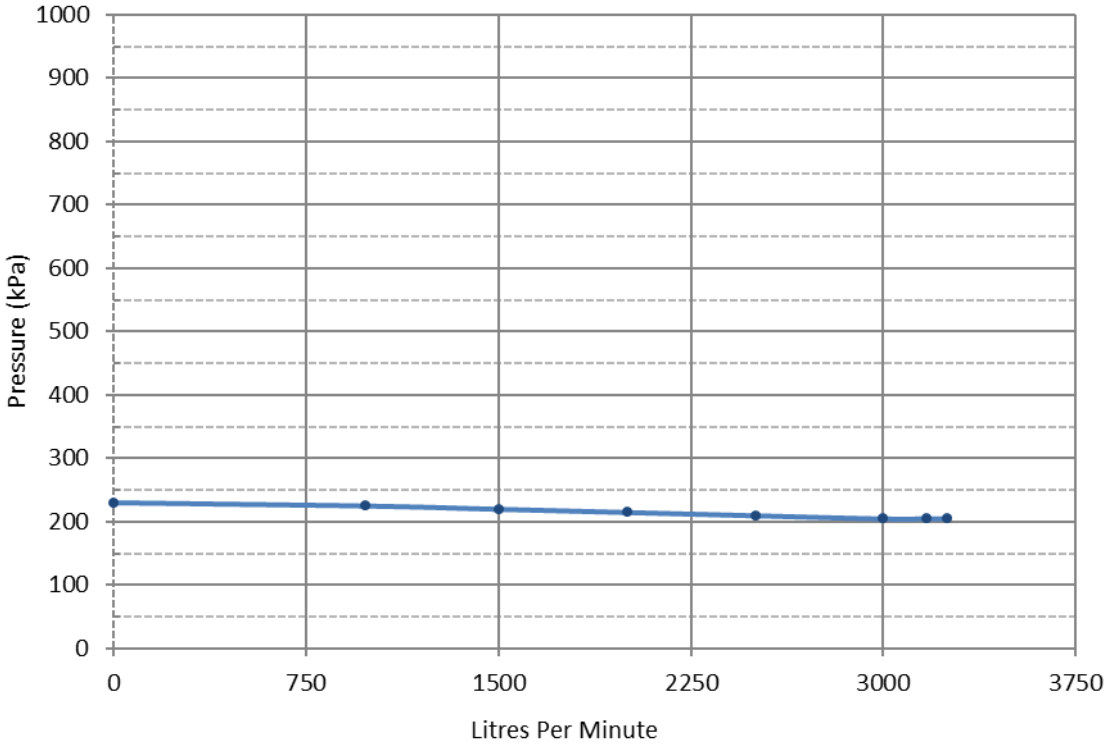
Mains Flow and Pressure Curve

Hydrant locations: 538 Karangahape Road, Grey Lynn
Date: 23rd February 2024
Time: 6.40am
Flow: Hydrants 1 and 2
Residual pressure: Residual kPa
Maximum flow result: 3250Lpm at 205kPa
Test Supervisor: Anthony Blewman

Data:

Flow (Lpm)	Pressure (kPa)
0	230
980	225
1500	220
2000	215
2500	210
3000	205
3170	205
3250	205

Graph:



Notes: The hydrants were flowed to full capacity during testing.
At full flow H1 was 1750Lpm and H2 was 1500Lpm.

Disclaimer: These results indicate the water networks performance on this given date and time.
The networks performance is subject to fluctuations.

Hydrant Map: See page 2.

Report End