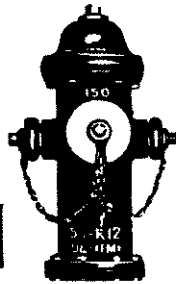


APPENDIX 7

FIRE HYDRANT TEST RESULTS





A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

①

CUSTOMER NAME: Toronto Metro 200 HYDRANT LOCATION: West of Indian Point
 SERVICE ADDRESS: 361A Old Finch Ave HYDRANT MAKE: M167
Scarborough DATE: Dec 21 1998

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE LOCATED NOT VISIBLE CLOSED OPERABLE INOPERABLE

2. HYDRANT OPERATION OK DIFFICULT LEAKING INOPERABLE

3. CHECK BARREL FOR WATER WET DRY AMT. OF WATER _____

4. CHECK CAP GASKETS OK REPLACED

5. CHECK NOZZLES & THREADS OK LEAKING R/B LOOSE LEADED DAMAGED

6. LUBRICATE HYDRANT YES NOT REQUIRED

7. LUBE SCREW OK MISSING REPLACED

8. FLOW TEST 30 PITDT 109 USGPM

9. PRESSURE TEST @ 100 PSIG PASSED FAILED

10. COLOUR CODED YES NO COLOUR _____

11. HYDRANT PAINTED YES NO COLOUR _____

12. HYDRANT PUMPED OUT YES NO

13. GROUND FLANGE SAFETY SOLID BURIED NA LEAKING DAMAGED

14. REQUIRES BARREL EXTENTION NA

15. PUMPER NOZZLE YES NO TYPE _____

16. NOZZLE ORIENTATION OK IMPROPER

17. TRAFFIC BOLLARDS OK DAMAGED NA MISSING

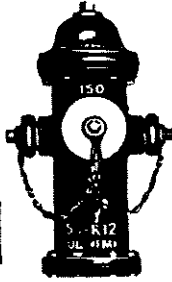
SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____

ADDITIONAL WORK

18. BONNET COVER	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
19. BONNET BOLTS	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
20. BONNET	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
21. BONNET SEAL	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
22. OPERATING NUT	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
23. OPERATING NUT O-RING(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPACK
24. STUFFING BOX	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
25. THRUST BEARING	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
26. BEARING HOUSING	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
27. BEARING HOUSING BOLTS	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
28. HOUSING COVER	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
29. HOUSING COVER BOLTS	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
30. BEARING HOUSING SEAL(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
31. UPPER OPERATING ROD	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
32. LOWER OPERATING ROD	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
33. ROD COUPLING	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
34. COUPLING BOLTS	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
35. LOWER ROD NUT(S)	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
36. LOWER ROD STOP PIN/PLATE	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
37. VALVE BALL SEAL(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
38. VALVE BALL BOTTOM	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
39. VALVE BALL RUBBER	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
40. VALVE BALL TOP	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
41. MAIN VALVE BEAT	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
42. MAIN VALVE BEAT SEAL(S)	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
43. DRAIN VALVE	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
44. DRAIN VALVE SEAL(S)	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
45. DRAIN VALVE PORT(S)	<input type="checkbox"/> OK	<input type="checkbox"/> CLEARED	<input type="checkbox"/> REPLACED
46. DRAIN VALVE COTTER PIN(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
47. LOWER BARREL	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
48. LOWER BARREL FLANGE(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
49. UPPER BARREL	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
50. UPPER BARREL FLANGE(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
51. BARREL EXTENTION(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
52. FLANGE GASKET(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
53. FLANGE BOLTS	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
54. BOOT	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
55. NOZZLE(S)	<input type="checkbox"/> OK	<input type="checkbox"/> RECALKED	<input type="checkbox"/> REPLACED
56. NOZZLE CAP(S)	<input type="checkbox"/> OK		<input type="checkbox"/> REPLACED
57. NOZZLE RETAINER(S)	<input type="checkbox"/> OK	<input type="checkbox"/> N/A	<input type="checkbox"/> REPLACED
58. OTHER	<input type="checkbox"/> OK		<input type="checkbox"/>
59. OTHER	<input type="checkbox"/> OK		<input type="checkbox"/>
60. OTHER	<input type="checkbox"/> OK		<input type="checkbox"/>
61. OTHER	<input type="checkbox"/> OK		<input type="checkbox"/>
62. OTHER	<input type="checkbox"/> OK		<input type="checkbox"/>
63. OTHER	<input type="checkbox"/> OK		<input type="checkbox"/>



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

2

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3614 Old Finch Ave
Scarborough

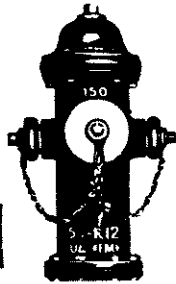
HYDRANT LOCATION: South of Indo Pavilion
HYDRANT MAKE: B5013
DATE: Dec 2/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)			
1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	NOT VISIBLE <input checked="" type="checkbox"/>	OK <input type="checkbox"/> CLOSED <input type="checkbox"/> INOPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OP <input checked="" type="checkbox"/> OL <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	OK <input checked="" type="checkbox"/> LEAKING <input type="checkbox"/> INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/> DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____	
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>	
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/> LEAKING <input type="checkbox"/>	R/S <input checked="" type="checkbox"/> LEADED <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/> DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>	
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>36</u> FITOT	<u>1116</u>	USGPM
9. PRESSURE TEST	<u>100</u> PSIG	PASSED <input type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	COLOUR _____	
11. HYDRANT PAINTED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	COLOUR _____	
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/> NA <input type="checkbox"/>	NO <input type="checkbox"/>	
13. GROUND FLANGE	SAFETY <input type="checkbox"/> SOLID <input checked="" type="checkbox"/>	BURNED <input type="checkbox"/> N/A <input type="checkbox"/>	LEAKING <input type="checkbox"/> DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENSION	NA <input type="checkbox"/>		
15. PUMPER NOZZLE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	TYPE _____	
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>	
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/> DAMAGED <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>

ADDITIONAL WORK			
18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENSION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]
CUSTOMER REPRESENTATIVE: _____

COMMENTS: Hydrant has minor leak at ground flange.



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

3

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3614 Old Finch Ave
Scarborough

HYDRANT LOCATION: South of Africa (near Elephant)
HYDRANT MAKE: Century
DATE: Dec 21/95

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
	NOT VISIBLE <input checked="" type="checkbox"/>	NOT OPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	OL <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	NON OPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>		REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input checked="" type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>		NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>20</u>	PITOT <u>8.32</u>	USGPM
9. PRESSURE TEST	<u>44</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>		NO <input type="checkbox"/>
	NA <input type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURIED <input type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input checked="" type="checkbox"/>	NA <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION			NA <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE	
	NO <input checked="" type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>		IMPROPER <input type="checkbox"/>
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

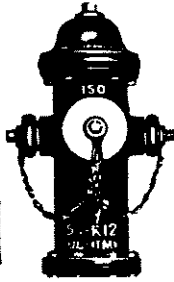
ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE:

COMMENTS:



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

4

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: Outside gorilla door
HYDRANT MAKE: B5013
DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	CLOSED <input type="checkbox"/>
	NOT VISIBLE <input checked="" type="checkbox"/>	NOT OPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	LEAKING <input type="checkbox"/>
	OR <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	NOT OPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	OR <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>		REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input checked="" type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>		NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>27</u>	FTOT <u>91.5/12</u>	USGPM
9. PRESSURE TEST	<u>51</u> PSIG	PASSED <input type="checkbox"/>	FAILED <input checked="" type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>		NO <input type="checkbox"/>
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURIED <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE _____	
	NO <input checked="" type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>		IMPROPER <input type="checkbox"/>
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

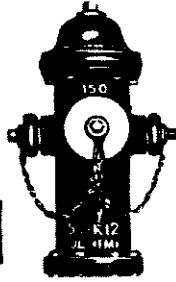
SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: Hydrant leaks when fully charged.

ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

5

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: West side of African Par
HYDRANT MAKE: Centurus
DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

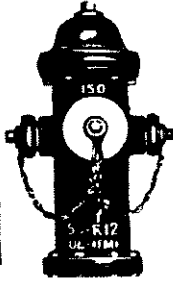
1. SECONDARY VALVE	<u>2" size</u> LOCATED <input checked="" type="checkbox"/> NOT VISIBLE <input type="checkbox"/>	OK <input checked="" type="checkbox"/> INOPERABLE <input type="checkbox"/>	CLOSED <input type="checkbox"/> INOPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/> OL <input type="checkbox"/>	OK <input checked="" type="checkbox"/> DIFFICULT <input type="checkbox"/>	LEAKING <input type="checkbox"/> INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/> DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____	
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>		REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/> LEAKING <input type="checkbox"/>	RS <input type="checkbox"/> LEADED <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/> DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>		NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>24</u> PITOT <u>911</u>		USGPM
9. PRESSURE TEST	<u>40</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	COLOUR _____	
11. HYDRANT PAINTED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	COLOUR _____	
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/> NA <input checked="" type="checkbox"/>		NO <input type="checkbox"/>
13. GROUND FLANGE	SAFETY <input type="checkbox"/> SOLID <input checked="" type="checkbox"/>	BURIED <input type="checkbox"/> NA <input type="checkbox"/>	LEAKING <input type="checkbox"/> DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION			NA <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		TYPE _____
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>		IMPROPER <input type="checkbox"/>
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/> DAMAGED <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____

18. BONNET COVER	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE BEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE BEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

6

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3161A Old Finch Ave
Scarborough

HYDRANT LOCATION: South of African M^cDona
HYDRANT MAKE: M67
DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

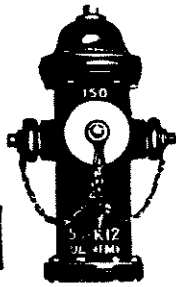
1. SECONDARY VALVE	LOCATED <input type="checkbox"/>	NOT VISIBLE <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	CLOSED <input type="checkbox"/>
			INOPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	DIFFICULT <input type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	OL <input type="checkbox"/>		INOPERABLE <input type="checkbox"/>	
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____		
	DRY <input checked="" type="checkbox"/>			
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>		
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	RVS <input type="checkbox"/>	LOOSE _____	
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED _____	
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>		
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>	
8. FLOW TEST	<u>Flowed</u>	PITOT _____	USGPM _____	
9. PRESSURE TEST	<u>35</u> P&IG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>	
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____		
	NO <input checked="" type="checkbox"/>			
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____		
	NO <input checked="" type="checkbox"/>			
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	NO <input type="checkbox"/>		
	N/A <input checked="" type="checkbox"/>			
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURIED <input checked="" type="checkbox"/>	LEAKING _____	
	SOLID <input type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED _____	
14. REQUIRES BARREL EXTENTION	_____			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE _____		
	NO <input checked="" type="checkbox"/>			
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>		
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>	
	DAMAGED <input type="checkbox"/>			

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
36. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE BEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE CUTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

7

CUSTOMER NAME: <u>Toronto Metro Zoo</u>	HYDRANT LOCATION: <u>N/W of African M^cDono</u>
SERVICE ADDRESS: <u>361A Old Finch Ave</u> <u>Scarborough</u>	HYDRANT MAKE: <u>AVK</u>
	DATE: <u>Dec 21/98</u>

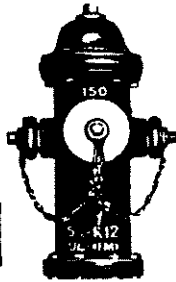
ANNUAL PREVENTATIVE MAINTENANCE (APM)			
1. SECONDARY VALVE	<u>2' STE</u> LOCATED <input checked="" type="checkbox"/> NOT VISIBLE <input type="checkbox"/>	OK <input checked="" type="checkbox"/> CLOSED <input type="checkbox"/> NOT OPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/> DIFFICULT <input type="checkbox"/> OR <input type="checkbox"/> OL <input type="checkbox"/>	LEAKING <input type="checkbox"/> NOT OPERABLE <input type="checkbox"/>	
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/> DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____	
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>	
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/> LEAKING <input type="checkbox"/>	RVS <input checked="" type="checkbox"/> LEADED <input type="checkbox"/>	LOOSE <input type="checkbox"/> DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input type="checkbox"/>	NOT REQUIRED <input checked="" type="checkbox"/>	
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>32</u> PITOT <u>1052</u>	USGPM	
9. PRESSURE TEST	<u>41</u> PSIG	PASSED <input checked="" type="checkbox"/> FAILED <input type="checkbox"/>	
10. COLOUR CODED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CLOUR _____	
11. HYDRANT PAINTED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	CLOUR _____	
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
13. GROUND FLANGE	SAFETY <input checked="" type="checkbox"/> SOLID <input type="checkbox"/>	BURIED <input type="checkbox"/> N/A <input type="checkbox"/>	LEAKING <input type="checkbox"/> DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENSION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	TYPE <u>ST</u>	
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>	
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/> DAMAGED <input type="checkbox"/>	N/A <input type="checkbox"/>	TOO CLOSE <input type="checkbox"/>

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____

ADDITIONAL WORK			
18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE BEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE BEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENSION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

80

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3614 Old Finch Ave
Scarborough

HYDRANT LOCATION: South end of main loop
HYDRANT MAKE: MJ7
DATE: Dec 2/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

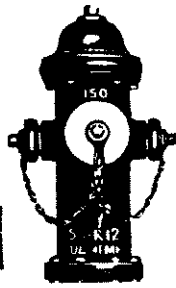
1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	NOT VISIBLE <input checked="" type="checkbox"/>	OK <input type="checkbox"/>	CLOSED <input type="checkbox"/>
2. HYDRANT OPERATION	OPR <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	DIFFICULT <input type="checkbox"/>	LEAKING <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____	
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>		
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>	RVS <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>		
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>	
8. FLOW TEST	<u>30</u>	PITOT	<u>1019</u>	USGPM
9. PRESSURE TEST	<u>56</u>	P8IG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	COLOUR _____	
11. HYDRANT PAINTED	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	COLOUR _____	
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	SOLID <input type="checkbox"/>	BURIED <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION				N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	TYPE _____	
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>		
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	DAMAGED <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAUKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

9

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

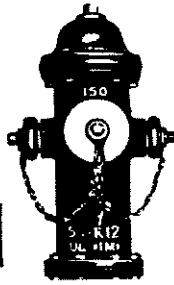
HYDRANT LOCATION: Inside/Outside holding
HYDRANT MAKE: 23501
DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)	
1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/> NOT VISIBLE <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT OPERABLE <input type="checkbox"/> CLOSED <input type="checkbox"/>
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/> DIFFICULT <input type="checkbox"/> LEAKING <input type="checkbox"/> NOT OPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/> DRY <input checked="" type="checkbox"/> AMT. OF WATER _____
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/> LEAKING <input type="checkbox"/> R/S <input type="checkbox"/> LOOSE <input type="checkbox"/> LEADED <input checked="" type="checkbox"/> DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/> MISSING <input type="checkbox"/> REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>5</u> PTOT <u>416</u> USGPM
9. PRESSURE TEST	@ <u>79</u> PSIG PASSED <input checked="" type="checkbox"/> FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> COLOUR _____
11. HYDRANT PAINTED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> COLOUR _____
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/> NA <input checked="" type="checkbox"/> NO <input type="checkbox"/>
13. GROUND FLANGE	SAFETY <input type="checkbox"/> BOLD <input checked="" type="checkbox"/> BURRED <input type="checkbox"/> N/A <input type="checkbox"/> LEAKING <input type="checkbox"/> DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION	_____ N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> TYPE _____
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/> IMPROPER <input type="checkbox"/>
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/> DAMAGED <input type="checkbox"/> N/A <input checked="" type="checkbox"/> TOO CLOSE <input type="checkbox"/>

ADDITIONAL WORK			
18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]
CUSTOMER REPRESENTATIVE: _____

COMMENTS: Hydrant leaks when fully charged secondary valve not visible.



A-1 HYDRANT SERVICES LTD.
 550 Coronation Dr., Unit # 18
 Scarborough, On. M1E 4V1
 (416) 282-1665
 1-888-349-2493

HYDRANT OPERATION SATISFACTORY
 HYDRANT OPERATION DEFICIENCY

10

North American

CUSTOMER NAME: Toronto Metro Zoo
 SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: West of ~~Finch~~ McDown
 HYDRANT MAKE: M47
 DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

1. SECONDARY VALVE LOCATED NOT VISIBLE OK CLOSED INOPERABLE

2. HYDRANT OPERATION OK DIFFICULT LEAKING OPERABLE

3. CHECK BARREL FOR WATER WET DRY AMT. OF WATER _____

4. CHECK CAP GASKETS OK REPLACED

5. CHECK NOZZLES & THREADS OK LEAKING R/S LEADED LOOSE DAMAGED

6. LUBRICATE HYDRANT YES NOT REQUIRED

7. LUBE SCREW OK MISSING REPLACED

8. FLOW TEST 46 FTOT 1261 USGPM

9. PRESSURE TEST 57 PSIG PASSED FAILED

10. COLOUR CODED YES NO COLOUR _____

11. HYDRANT PAINTED YES NO COLOUR _____

12. HYDRANT PUMPED OUT YES NO N/A

13. GROUND FLANGE SAFETY SOLID BURIED N/A LEAKING DAMAGED

14. REQUIRES BARREL EXTENTION _____ N/A

15. PUMPER NOZZLE YES NO TYPE _____

16. NOZZLE ORIENTATION OK IMPROPER

17. TRAFFIC BOLLARDS OK DAMAGED N/A TOO CLOSE

18. BONNET COVER OK N/A REPLACED

19. BONNET BOLTS OK N/A REPLACED

20. BONNET OK REPLACED

21. BONNET SEAL OK REPLACED

22. OPERATING NUT OK REPLACED

23. OPERATING NUT O-RING(S) OK N/A REPACK

24. STUFFING BOX OK N/A REPLACED

25. THRUST BEARING OK N/A REPLACED

26. BEARING HOUSING OK N/A REPLACED

27. BEARING HOUSING BOLTS OK N/A REPLACED

28. HOUSING COVER OK N/A REPLACED

29. HOUSING COVER BOLTS OK N/A REPLACED

30. BEARING HOUSING SEAL(S) OK N/A REPLACED

31. UPPER OPERATING ROD OK REPLACED

32. LOWER OPERATING ROD OK REPLACED

33. ROD COUPLING OK N/A REPLACED

34. COUPLING BOLTS OK N/A REPLACED

35. LOWER ROD NUT(S) OK REPLACED

36. LOWER ROD STOP PIN/PLATE OK N/A REPLACED

37. VALVE BALL SEAL(S) OK N/A REPLACED

38. VALVE BALL BOTTOM OK REPLACED

39. VALVE BALL RUBBER OK REPLACED

40. VALVE BALL TOP OK N/A REPLACED

41. MAIN VALVE SEAT OK REPLACED

42. MAIN VALVE SEAT SEAL(S) OK REPLACED

43. DRAIN VALVE OK REPLACED

44. DRAIN VALVE SEAL(S) OK REPLACED

45. DRAIN VALVE PORT(S) OK CLEARED REPLACED

46. DRAIN VALVE COTTER PIN(S) OK N/A REPLACED

47. LOWER BARREL OK REPLACED

48. LOWER BARREL FLANGE(S) OK N/A REPLACED

49. UPPER BARREL OK REPLACED

50. UPPER BARREL FLANGE(S) OK N/A REPLACED

51. BARREL EXTENTION(S) OK N/A REPLACED

52. FLANGE GASKET(S) OK N/A REPLACED

53. FLANGE BOLTS OK N/A REPLACED

54. BOOT OK N/A REPLACED

55. NOZZLE(S) OK RECALKED REPLACED

56. NOZZLE CAP(S) OK REPLACED

57. NOZZLE RETAINER(S) OK N/A REPLACED

58. OTHER OK

59. OTHER OK

60. OTHER OK

61. OTHER OK

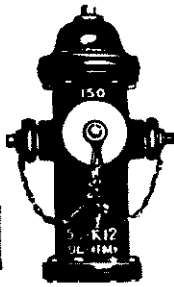
62. OTHER OK

63. OTHER OK

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



HYDRANT OPERATION SATISFACTORY
 HYDRANT OPERATION DEFICIENCY

A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
 Scarborough, On. M1E 4V1
 (416) 282-1665
 1-888-349-2493

11

CUSTOMER NAME: Toronto Metro Zoo
 SERVICE ADDRESS: 3161A Old Finch Ave
Scarborough
 HYDRANT LOCATION: North of North American Rd
 HYDRANT MAKE: Century
 DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE Locally LOCATED NOT VISIBLE OK CLOSED INOPERABLE

2. HYDRANT OPERATION OR OK LEAKING OIL DIFFICULT INOPERABLE

3. CHECK BARREL FOR WATER WET AMT. OF WATER _____ DRY

4. CHECK CAP GASKETS OK REPLACED

5. CHECK NOZZLES & THREADS OK R/S LOOSE LEAKING LEADED DAMAGED

6. LUBRICATE HYDRANT YES NOT REQUIRED

7. LUBE SCREW OK MISSING REPLACED

8. FLOW TEST Flowed PITOT _____ USGPM

9. PRESSURE TEST @ 55 PSIG PASSED FAILED

10. COLOUR CODED YES COLOUR _____ NO

11. HYDRANT PAINTED YES COLOUR _____ NO

12. HYDRANT PUMPED OUT YES NO N/A

13. GROUND FLANGE SAFETY BURIED LEAKING SOLID N/A DAMAGED

14. REQUIRES BARREL EXTENTION _____ N/A

15. PUMPER NOZZLE YES TYPE _____ NO

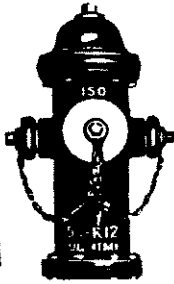
16. NOZZLE ORIENTATION OK IMPROPER

17. TRAFFIC BOLLARDS OK N/A TOO CLOSE DAMAGED

ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]
 CUSTOMER REPRESENTATIVE: _____
 COMMENTS: Secondary valve seized
in open position



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

17

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: N/E of Special Events Te
HYDRANT MAKE: B50B
DATE: Dec 21/96

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

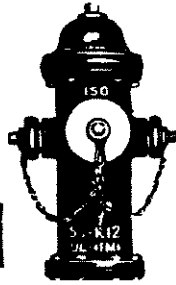
1. SECONDARY VALVE	<u>2' east</u> LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
		NOT VISIBLE <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OR <input checked="" type="checkbox"/> O/L <input type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
		DIFFICULT <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/> DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____	
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>	
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/> LEAKING <input type="checkbox"/>	R/S <input checked="" type="checkbox"/> LEADED <input type="checkbox"/>	LOOSE <input type="checkbox"/> DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>	
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>40</u>	PITOT <u>1176</u>	USGPM
9. PRESSURE TEST	<u>50</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	COLOUR _____	
11. HYDRANT PAINTED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	COLOUR _____	
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
13. GROUND FLANGE	SAFETY <input type="checkbox"/> BOLD <input checked="" type="checkbox"/>	BURIED <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/> DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	TYPE _____	
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>	
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/> DAMAGED <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

13

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: North of Australasia
HYDRANT MAKE: Mcf
DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

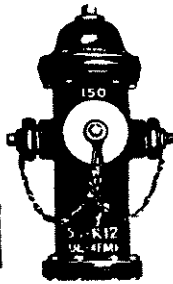
1. SECONDARY VALVE	<u>Least</u>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
	LOCATED	NOT VISIBLE <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	OL <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>	
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>	
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>46</u>	PTOT <u>1261</u>	USGPM
9. PRESSURE TEST	<u>56</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURIED <input type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENSION	_____		N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE _____	
	NO <input checked="" type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>	
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PINS(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENSION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

14

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3101A Old Finch Ave
Scarborough

HYDRANT LOCATION: North of Australasia M Zoo
HYDRANT MAKE: MUT
DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

1. SECONDARY VALVE 4' east LOCATED NOT VISIBLE OK CLOSED INOPERABLE

2. HYDRANT OPERATION OR OL OK DIFFICULT LEAKING INOPERABLE

3. CHECK BARREL FOR WATER WET DRY AMT. OF WATER _____

4. CHECK CAP GASKETS OK REPLACED

5. CHECK NOZZLES & THREADS OK LEAKING R/S LEADED LOOSE DAMAGED

6. LUBRICATE HYDRANT YES NOT REQUIRED

7. LUBE SCREW OK MISSING REPLACED

8. FLOW TEST 26 RTOT 948 USGPM

9. PRESSURE TEST @ 56 PSIG PASSED FAILED

10. COLOUR CODED YES NO COLOUR _____

11. HYDRANT PAINTED YES NO COLOUR _____

12. HYDRANT PUMPED OUT YES N/A NO

13. GROUND FLANGE SAFETY SOLID BURIED N/A LEAKING DAMAGED

14. REQUIRES BARREL EXTENTION _____ N/A

15. PUMPER NOZZLE YES NO TYPE _____

16. NOZZLE ORIENTATION OK IMPROPER

17. TRAFFIC BOLLARDS OK DAMAGED N/A TOO CLOSE

18. BONNET COVER OK N/A REPLACED

19. BONNET BOLTS OK N/A REPLACED

20. BONNET OK REPLACED

21. BONNET SEAL OK REPLACED

22. OPERATING NUT OK REPLACED

23. OPERATING NUT O-RING(S) OK N/A REPACK

24. STUFFING BOX OK N/A REPLACED

25. THRUST BEARING OK N/A REPLACED

26. BEARING HOUSING OK N/A REPLACED

27. BEARING HOUSING BOLTS OK N/A REPLACED

28. HOUSING COVER OK N/A REPLACED

29. HOUSING COVER BOLTS OK N/A REPLACED

30. BEARING HOUSING SEAL(S) OK N/A REPLACED

31. UPPER OPERATING ROD OK REPLACED

32. LOWER OPERATING ROD OK REPLACED

33. ROD COUPLING OK N/A REPLACED

34. COUPLING BOLTS OK N/A REPLACED

35. LOWER ROD NUT(S) OK REPLACED

36. LOWER ROD STOP PIN/PLATE OK N/A REPLACED

37. VALVE BALL SEAL(S) OK N/A REPLACED

38. VALVE BALL BOTTOM OK REPLACED

39. VALVE BALL RUBBER OK REPLACED

40. VALVE BALL TOP OK N/A REPLACED

41. MAIN VALVE SEAT OK REPLACED

42. MAIN VALVE SEAT SEAL(S) OK REPLACED

43. DRAIN VALVE OK REPLACED

44. DRAIN VALVE SEAL(S) OK REPLACED

45. DRAIN VALVE PORT(S) OK CLEARED REPLACED

46. DRAIN VALVE COTTER PIN(S) OK N/A REPLACED

47. LOWER BARREL OK REPLACED

48. LOWER BARREL FLANGE(S) OK N/A REPLACED

49. UPPER BARREL OK REPLACED

50. UPPER BARREL FLANGE(S) OK N/A REPLACED

51. BARREL EXTENTION(S) OK N/A REPLACED

52. FLANGE GASKET(S) OK N/A REPLACED

53. FLANGE BOLTS OK N/A REPLACED

54. BOOT OK N/A REPLACED

55. NOZZLE(S) OK RECALKED REPLACED

56. NOZZLE CAP(S) OK REPLACED

57. NOZZLE RETAINER(S) OK N/A REPLACED

58. OTHER OK

59. OTHER OK

60. OTHER OK

61. OTHER OK

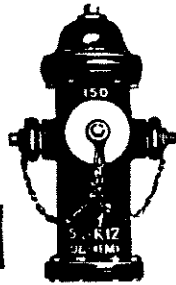
62. OTHER OK

63. OTHER OK

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: Leaks at operating nut
packing.



HYDRANT OPERATION SATISFACTORY
 HYDRANT OPERATION DEFICIENCY

A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
 Scarborough, On. M1E 4V1
 (416) 282-1665
 1-888-349-2493

15

CUSTOMER NAME: Toronto Metro Zoo HYDRANT LOCATION: South of Greenhouse
 SERVICE ADDRESS: 3161 & Old Finch Ave HYDRANT MAKE: MCF
Scarborough DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE 2 wets LOCATED NOT VISIBLE OK CLOSED OPERABLE

2. HYDRANT OPERATION O/R OL OK DIFFICULT LEAKING INOPERABLE

3. CHECK BARREL FOR WATER WET DRY AMT. OF WATER _____

4. CHECK CAP GASKETS OK REPLACED

5. CHECK NOZZLES & THREADS OK LEAKING R/B LOOSE LEADED DAMAGED

6. LUBRICATE HYDRANT YES NOT REQUIRED

7. LUBE SCREW OK MISSING REPLACED

8. FLOW TEST 34 PITOT 108.5 USGPM

9. PRESSURE TEST 50 PSIG PASSED FAILED

10. COLOUR CODED YES NO COLOUR _____

11. HYDRANT PAINTED YES NO COLOUR _____

12. HYDRANT PUMPED OUT YES NO

13. GROUND FLANGE SAFETY SOLID BURIED NA LEAKING DAMAGED

14. REQUIRES BARREL EXTENSION _____ NA

15. PUMPER NOZZLE YES NO TYPE ST

16. NOZZLE ORIENTATION OK IMPROPER

17. TRAFFIC BOLLARDS OK DAMAGED NA TOO CLOSE

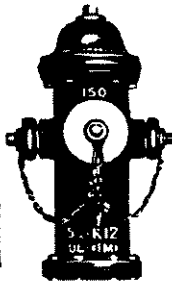
SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: Left 2 1/2 inch port cap missing.

ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL BEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE BEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE BEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
59. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
60. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
61. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
62. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
63. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

16

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: S/E of north service
HYDRANT MAKE: M1E7
DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE	<u>3' west</u> LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
	NOT VISIBLE <input type="checkbox"/>	INCOPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	OL <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	INCOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>		REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	P/B <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>		NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>30</u> PITOT	<u>10M</u>	USGPM
9. PRESSURE TEST	<u>50</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>		NO <input type="checkbox"/>
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURIED <input type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE _____	
	NO <input checked="" type="checkbox"/>		
18. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>		IMPROPER <input type="checkbox"/>
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. _____	OK <input type="checkbox"/>		<input type="checkbox"/>
59. _____	OK <input type="checkbox"/>		<input type="checkbox"/>
60. _____	OK <input type="checkbox"/>		<input type="checkbox"/>
61. _____	OK <input type="checkbox"/>		<input type="checkbox"/>
62. _____	OK <input type="checkbox"/>		<input type="checkbox"/>
63. _____	OK <input type="checkbox"/>		<input type="checkbox"/>

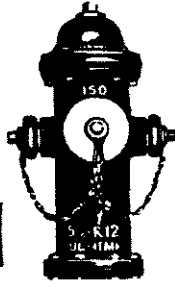
SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____

see not operated.

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

17

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361 A Old Finch Ave
Scarborough

HYDRANT LOCATION: N/E of north service
HYDRANT MAKE: MU7
DATE: Dec 21 1998

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

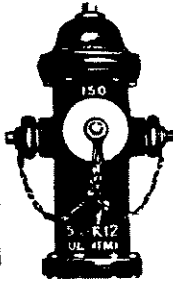
1. SECONDARY VALVE	<u>2' west</u> LOCATED	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
		NOT VISIBLE <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	OR <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>	
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>	
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>34</u>	PTOT <u>1085</u>	USGPM
9. PRESSURE TEST @ <u>50</u> PSIG	PASSED <input checked="" type="checkbox"/>		FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURED <input type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION	N/A <input type="checkbox"/>		
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE _____	
	NO <input checked="" type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>	
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: Secondary unable to
cycle due to depth.



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

18

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: East side of garage
HYDRANT MAKE: Cannon
DATE: Dec 21/98

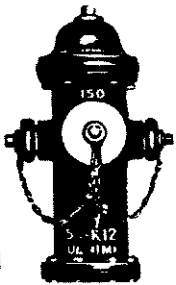
ANNUAL PREVENTATIVE MAINTENANCE (APM)			
1. SECONDARY VALVE	<u>2' south</u> LOCATED	OK <input checked="" type="checkbox"/> NOT VISIBLE <input type="checkbox"/>	CLOSED <input type="checkbox"/> INOPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/> OL <input type="checkbox"/>	OK <input checked="" type="checkbox"/> DIFFICULT <input type="checkbox"/>	LEAKING <input type="checkbox"/> INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/> DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____	
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input checked="" type="checkbox"/>	
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/> LEAKING <input type="checkbox"/>	R/S <input checked="" type="checkbox"/> LEADED <input type="checkbox"/>	LOOSE <input type="checkbox"/> DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>	
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>23</u>	PI TOT <u>892</u>	USQPM _____
9. PRESSURE TEST	<u>48</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	COLOUR _____	
11. HYDRANT PAINTED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	COLOUR _____	
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
13. GROUND FLANGE	SAFETY <input checked="" type="checkbox"/> SOLID <input type="checkbox"/>	BURIED <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/> DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENSION	_____		N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	TYPE _____	
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>	
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/> DAMAGED <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>

ADDITIONAL WORK			
18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENSION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALIBRATED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: Alex M

CUSTOMER REPRESENTATIVE: _____

COMMENTS: Secondary valve box
broken & lid missing (4SL)
Also, box has mud, but
still operable. N/A



HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

A-1 HYDRANT SERVICES LTD.
550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

19

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: West end of North service
HYDRANT MAKE: Century
DATE: Dec 21/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE 2 months LOCATED NOT VISIBLE OK NOT OK CLOSED INOPERABLE

2. HYDRANT OPERATION OR OK OL DIFFICULT LEAKING NO PERABLE

3. CHECK BARREL FOR WATER WET DRY AMT. OF WATER _____

4. CHECK CAP GASKETS OK REPLACED

5. CHECK NOZZLES & THREADS OK LEAKING R/S LEADED LOOSE DAMAGED

6. LUBRICATE HYDRANT YES NOT REQUIRED

7. LUBE SCREW OK MISSING REPLACED

8. FLOW TEST 26 PITOT 948 USGPM

9. PRESSURE TEST @ 50 PSIG PASSED FAILED

10. COLOUR CODED YES NO COLOUR _____

11. HYDRANT PAINTED YES NO COLOUR _____

12. HYDRANT PUMPED OUT YES NO

13. GROUND FLANGE SAFETY SOLID BURIED N/A LEAKING DAMAGED

14. REQUIRES BARREL EXTENSION _____ N/A

15. PUMPER NOZZLE YES NO TYPE _____

16. NOZZLE ORIENTATION OK IMPROPER

17. TRAFFIC BOLLARDS OK DAMAGED N/A TOO CLOSE

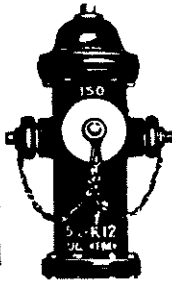
SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____

ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

20

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3161/2 Old Finch Ave
Scarborough

HYDRANT LOCATION: East of New Lion Holding
HYDRANT MAKE: AVK
DATE: Dec 23/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

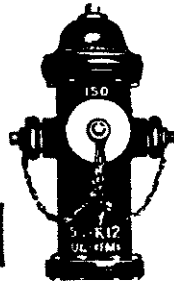
1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	NOT VISIBLE <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>	W/OPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	DIFFICULT <input type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>	W/OPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>			
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>			
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>		
8. FLOW TEST	<u>22</u>	PITOT	<u>872</u>	USGPM	
9. PRESSURE TEST	<u>33</u>	PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>	
10. COLOUR CODED	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	COLOUR _____		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	COLOUR _____		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	NO <input type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BOLID <input type="checkbox"/>	BURIED <input type="checkbox"/>	LEAKING <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION	_____				N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	TYPE <u>ST</u>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>			
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	DAMAGED <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>	

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEANED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

21

CUSTOMER NAME: Toronto Metro Zoo HYDRANT LOCATION: Old Matagaska Restau
 SERVICE ADDRESS: 361A Old Finch Ave HYDRANT MAKE: M167
Scarborough DATE: Dec 23/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE 4' south LOCATED NOT VISIBLE OK CLOSED INOPERABLE

2. HYDRANT OPERATION O/R OK LEAKING
O/L DIFFICULT INOPERABLE

3. CHECK BARREL FOR WATER WET AMT. OF WATER _____
DRY

4. CHECK CAP GASKETS OK REPLACED

5. CHECK NOZZLES & THREADS OK R/S LOOSE
LEAKING LEADED DAMAGED

6. LUBRICATE HYDRANT YES NOT REQUIRED

7. LUBE SCREW OK MISSING REPLACED

8. FLOW TEST 14 PITOT 696 USGPM

9. PRESSURE TEST 46 PSIG PASSED FAILED

10. COLOUR CODED YES COLOUR _____
NO

11. HYDRANT PAINTED YES COLOUR _____
NO

12. HYDRANT PUMPED OUT YES NO
N/A

13. GROUND FLANGE SAFETY BURIED LEAKING
SOLID N/A DAMAGED

14. REQUIRES BARREL EXTENTION _____ N/A

15. PUMPER NOZZLE YES TYPE _____
NO

16. NOZZLE ORIENTATION OK IMPROPER

17. TRAFFIC BOLLARDS OK N/A TOO CLOSE
DAMAGED

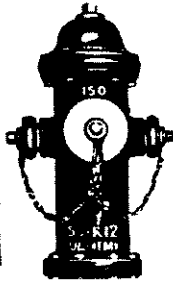
SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____

ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINERS(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

22

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361A Old Finch Ave
Scarborough

HYDRANT LOCATION: North American Domain
HYDRANT MAKE: MU7
DATE: Dec 23/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

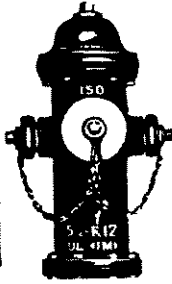
1. SECONDARY VALVE	<u>4' north</u> LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
	NOT VISIBLE <input type="checkbox"/>	NOT OPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	OL <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>		REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>		NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>12</u>	PTOT <u>644</u>	USGPM
9. PRESSURE TEST	<u>93</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>		NO <input type="checkbox"/>
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURIED <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE _____	
	NO <input checked="" type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>		IMPROPER <input type="checkbox"/>
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
36. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

23

CUSTOMER NAME: <u>Toronto Metro Zoo</u>	HYDRANT LOCATION: <u>New Havana Restaura</u>
SERVICE ADDRESS: <u>3161+ Old Finch Ave Scarborough</u>	HYDRANT MAKE: <u>AVK</u>
	DATE: <u>Dec 23/98</u>

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
	NOT VISIBLE <input checked="" type="checkbox"/>	NOT VISIBLE <input checked="" type="checkbox"/>	INOPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	DIFFICULT <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>		REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>		NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>20</u> USGPM	PTDT <u>8.32</u>	
9. PRESSURE TEST	<u>38</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>		NO <input type="checkbox"/>
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input checked="" type="checkbox"/>	BURNED <input type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input checked="" type="checkbox"/>	TYPE <u>ST</u>	
	NO <input type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>		IMPROPER <input type="checkbox"/>
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

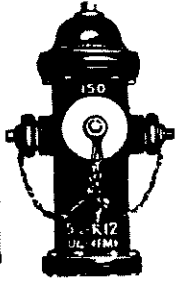
SERVED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____

ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE BEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE BEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

24

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3601A Old Finch Ave
Scarborough

HYDRANT LOCATION: North of Chetah Building
HYDRANT MAKE: AVK
DATE: Dec 23 1998

ANNUAL PREVENTATIVE MAINTENANCE (APM)

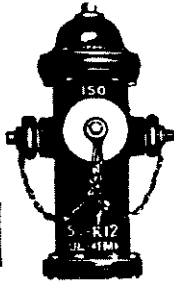
ADDITIONAL WORK

1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
	NOT VISIBLE <input checked="" type="checkbox"/>	NOT OPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	DIFFICULT <input type="checkbox"/>	NOT OPERABLE <input type="checkbox"/>	
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>		REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>		NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>14</u>	PITOT <u>696</u>	USGPM
9. PRESSURE TEST	<u>34</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>		NO <input type="checkbox"/>
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input checked="" type="checkbox"/>	BURIED <input type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input checked="" type="checkbox"/>	TYPE <u>ST</u>	
	NO <input type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>		W/PROPER <input type="checkbox"/>
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]
CUSTOMER REPRESENTATIVE:

COMMENTS:



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY []
HYDRANT OPERATION DEFICIENCY []

25

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3614 Old Finch Ave
Scarborough

HYDRANT LOCATION: East of African Pavilion
HYDRANT MAKE: Century
DATE: Dec 23 1998

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

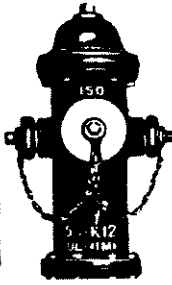
1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	NOT VISIBLE <input type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>	OPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	OR <input checked="" type="checkbox"/>	OL <input type="checkbox"/>	OK <input checked="" type="checkbox"/>	DIFFICULT <input type="checkbox"/>	LEAKING <input type="checkbox"/> OPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>			
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>			
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>		
8. FLOW TEST	<u>18</u>	PI TOT	<u>789</u>	USGPM	
9. PRESSURE TEST	<u>32</u>	PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>	
10. COLOUR CODED	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	COLOUR _____		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	COLOUR _____		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	NO <input type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	SOLID <input type="checkbox"/>	BURIED <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	LEAKING <input type="checkbox"/> DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENSION	_____				NA <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	TYPE _____		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>			
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	DAMAGED <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>	

18. BONNET COVER	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	NA <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE BEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE BEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENSION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
59. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
60. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
61. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
62. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>
63. OTHER	OK <input type="checkbox"/>		<input type="checkbox"/>

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

26

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 361 x Old Finch Ave
Scarborough

HYDRANT LOCATION: East of Society
HYDRANT MAKE: M1E7
DATE: Dec 23 1998

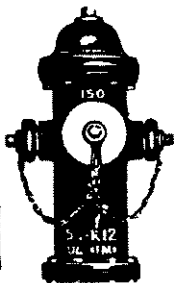
ANNUAL PREVENTATIVE MAINTENANCE (APM)			
1. SECONDARY VALVE	<u>3rd</u> LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
		NOT VISIBLE <input type="checkbox"/>	INOPERABLE <input checked="" type="checkbox"/>
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	OL <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>	
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>	
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>Flushed</u>	RTOT _____	USGPM _____
9. PRESSURE TEST	<u>4.0</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input checked="" type="checkbox"/>	BURIED <input type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENSION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE _____	
	NO <input checked="" type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>	
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

ADDITIONAL WORK			
18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE BEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE BEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENSION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECALKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: Hydrant unable to flow
test due to walkways.
Secondary inoperable due
to valve box full of dirt.



HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

27

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3614 Old Finch Ave
Scarborough

HYDRANT LOCATION: South of Society
HYDRANT MAKE: M117
DATE: Dec 23/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

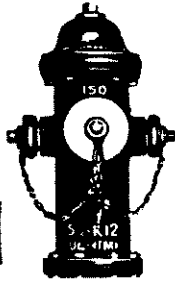
1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	NOT VISIBLE <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
2. HYDRANT OPERATION	O/R <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	DIFFICULT <input type="checkbox"/>	LEAKING <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	AMT. OF WATER _____		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>				REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>	R/B <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>			
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>		
8. FLOW TEST	<u>54</u>	PTOT <u>1367</u>	USGPM		
9. PRESSURE TEST	<u>58</u>	PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>	
10. COLOUR CODED	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	COLOUR _____		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	COLOUR _____		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	NO <input type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input checked="" type="checkbox"/>	SOLID <input type="checkbox"/>	BURPED <input type="checkbox"/>	LEAKING <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENSION					N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	TYPE _____		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>			
17. TRAFFIC BOLLARDS	OK <input checked="" type="checkbox"/>	DAMAGED <input type="checkbox"/>	N/A <input type="checkbox"/>	TOO CLOSE <input type="checkbox"/>	

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENSION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]

CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY
HYDRANT OPERATION DEFICIENCY

28

CUSTOMER NAME: *Toronto Metro Zoo*
SERVICE ADDRESS: *301A Old Finch Ave
Scarborough*

HYDRANT LOCATION:
HYDRANT MAKE: *M67*
DATE: *Dec 23/98*

ANNUAL PREVENTATIVE MAINTENANCE (APM)

1. SECONDARY VALVE	<i>DONE</i> LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
	NOT VISIBLE <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	OK <input type="checkbox"/>	DIFFICULT <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>	REPLACED <input type="checkbox"/>	
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	R/S <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>	NOT REQUIRED <input type="checkbox"/>	
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<i>Flowed</i>	PI TOT _____	USGPM _____
9. PRESSURE TEST	<i>600</i> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURIED <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENTION	_____		N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>	TYPE _____	
	NO <input checked="" type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>	IMPROPER <input type="checkbox"/>	
17. TRAFFIC BOLLARDS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

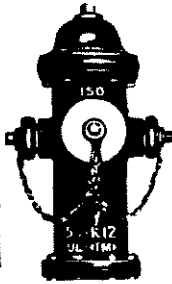
ADDITIONAL WORK

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE SEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE SEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENTION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: *[Signature]*

CUSTOMER REPRESENTATIVE:

COMMENTS: *Hydrant unable to flow
test due temperature & walk-
ways*



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
(416) 282-1665
1-888-349-2493

HYDRANT OPERATION SATISFACTORY []
HYDRANT OPERATION DEFICIENCY []

29

CUSTOMER NAME: Toronto Metro Zoo
SERVICE ADDRESS: 3614 Old Finch Ave
Scarborough

HYDRANT LOCATION: West of Harriet Lane
HYDRANT MAKE: M617
DATE: Dec 23/98

ANNUAL PREVENTATIVE MAINTENANCE (APM)

ADDITIONAL WORK

1. SECONDARY VALVE	LOCATED <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	CLOSED <input type="checkbox"/>
	NOT VISIBLE <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>	
2. HYDRANT OPERATION	OK <input checked="" type="checkbox"/>	OK <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	DIFFICULT <input type="checkbox"/>	INOPERABLE <input type="checkbox"/>	
3. CHECK BARREL FOR WATER	WET <input type="checkbox"/>	AMT. OF WATER _____	
	DRY <input checked="" type="checkbox"/>		
4. CHECK CAP GASKETS	OK <input checked="" type="checkbox"/>		REPLACED <input type="checkbox"/>
5. CHECK NOZZLES & THREADS	OK <input checked="" type="checkbox"/>	RVS <input checked="" type="checkbox"/>	LOOSE <input type="checkbox"/>
	LEAKING <input type="checkbox"/>	LEADED <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
6. LUBRICATE HYDRANT	YES <input checked="" type="checkbox"/>		NOT REQUIRED <input type="checkbox"/>
7. LUBE SCREW	OK <input checked="" type="checkbox"/>	MISSING <input type="checkbox"/>	REPLACED <input type="checkbox"/>
8. FLOW TEST	<u>30</u> PITOT	<u>1019</u>	USGPM
9. PRESSURE TEST	<u>44</u> PSIG	PASSED <input checked="" type="checkbox"/>	FAILED <input type="checkbox"/>
10. COLOUR CODED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
11. HYDRANT PAINTED	YES <input type="checkbox"/>	COLOUR _____	
	NO <input checked="" type="checkbox"/>		
12. HYDRANT PUMPED OUT	YES <input type="checkbox"/>		NO <input type="checkbox"/>
	N/A <input checked="" type="checkbox"/>		
13. GROUND FLANGE	SAFETY <input type="checkbox"/>	BURIED <input checked="" type="checkbox"/>	LEAKING <input type="checkbox"/>
	SOLID <input type="checkbox"/>	N/A <input type="checkbox"/>	DAMAGED <input type="checkbox"/>
14. REQUIRES BARREL EXTENSION			N/A <input type="checkbox"/>
15. PUMPER NOZZLE	YES <input type="checkbox"/>		TYPE _____
	NO <input checked="" type="checkbox"/>		
16. NOZZLE ORIENTATION	OK <input checked="" type="checkbox"/>		IMPROPER <input type="checkbox"/>
17. TRAFFIC BARRIERS	OK <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	TOO CLOSE <input type="checkbox"/>
	DAMAGED <input type="checkbox"/>		

18. BONNET COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
19. BONNET BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
20. BONNET	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
21. BONNET SEAL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
22. OPERATING NUT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
23. OPERATING NUT O-RING(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPACK <input type="checkbox"/>
24. STUFFING BOX	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
25. THRUST BEARING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
26. BEARING HOUSING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
27. BEARING HOUSING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
28. HOUSING COVER	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
29. HOUSING COVER BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
30. BEARING HOUSING SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
31. UPPER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
32. LOWER OPERATING ROD	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
33. ROD COUPLING	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
34. COUPLING BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
35. LOWER ROD NUT(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
36. LOWER ROD STOP PIN/PLATE	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
37. VALVE BALL SEAL(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
38. VALVE BALL BOTTOM	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
39. VALVE BALL RUBBER	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
40. VALVE BALL TOP	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
41. MAIN VALVE BEAT	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
42. MAIN VALVE BEAT SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
43. DRAIN VALVE	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
44. DRAIN VALVE SEAL(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
45. DRAIN VALVE PORT(S)	OK <input type="checkbox"/>	CLEARED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
46. DRAIN VALVE COTTER PIN(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
47. LOWER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
48. LOWER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
49. UPPER BARREL	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
50. UPPER BARREL FLANGE(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
51. BARREL EXTENSION(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
52. FLANGE GASKET(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
53. FLANGE BOLTS	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
54. BOOT	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
55. NOZZLE(S)	OK <input type="checkbox"/>	RECAULKED <input type="checkbox"/>	REPLACED <input type="checkbox"/>
56. NOZZLE CAP(S)	OK <input type="checkbox"/>		REPLACED <input type="checkbox"/>
57. NOZZLE RETAINER(S)	OK <input type="checkbox"/>	N/A <input type="checkbox"/>	REPLACED <input type="checkbox"/>
58. OTHER	OK <input type="checkbox"/>		
59. OTHER	OK <input type="checkbox"/>		
60. OTHER	OK <input type="checkbox"/>		
61. OTHER	OK <input type="checkbox"/>		
62. OTHER	OK <input type="checkbox"/>		
63. OTHER	OK <input type="checkbox"/>		

SERVICED BY: [Signature]
CUSTOMER REPRESENTATIVE: _____

COMMENTS: _____



550 Coronation Dr., Unit #18
 Scarborough, Ont. M1E 4V1
 282-1665

A-1 HYDRANT SERVICES LTD.

SITE NAME Toronto Metro Zoo DATE Dec 21/98

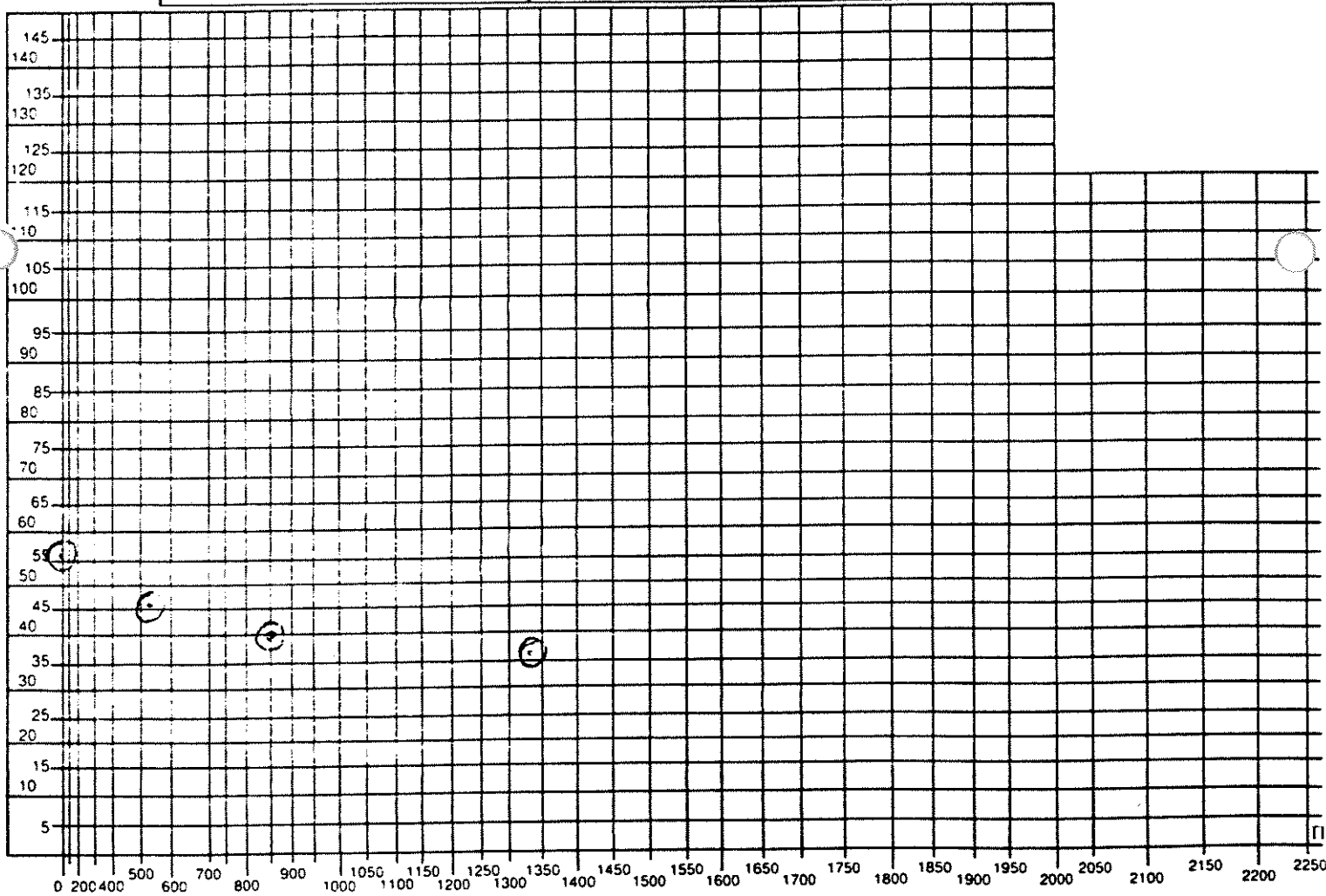
LOCATION 361A Old Finch Ave

TEST DATA

TIME OF TEST 10:15am
 LOCATION OF TEST: (FLOW) Hydrant (Australasia McDonald's) #14
 (RESIDUAL) Hydrant (North end of Australasia Building) #1
 MAIN SIZE 4" & 8" inch
 STATIC PRESSURE 56 psi

NUMBER OF OUTLETS & ORIFICE SIZE PITOT PRESSURE FLOW (U.S.G.P.M.) RESIDUAL PRESSURE

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1	1 X 1 3/4"	41	525	46
#2	1 X 2 1/2"	26	852	40
#3	2 X 2 1/2"	16	1336	36
#4				



COMMENTS FLOW TEST - BLUE

Authorized Signature _____ A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo DATE Dec 21/98

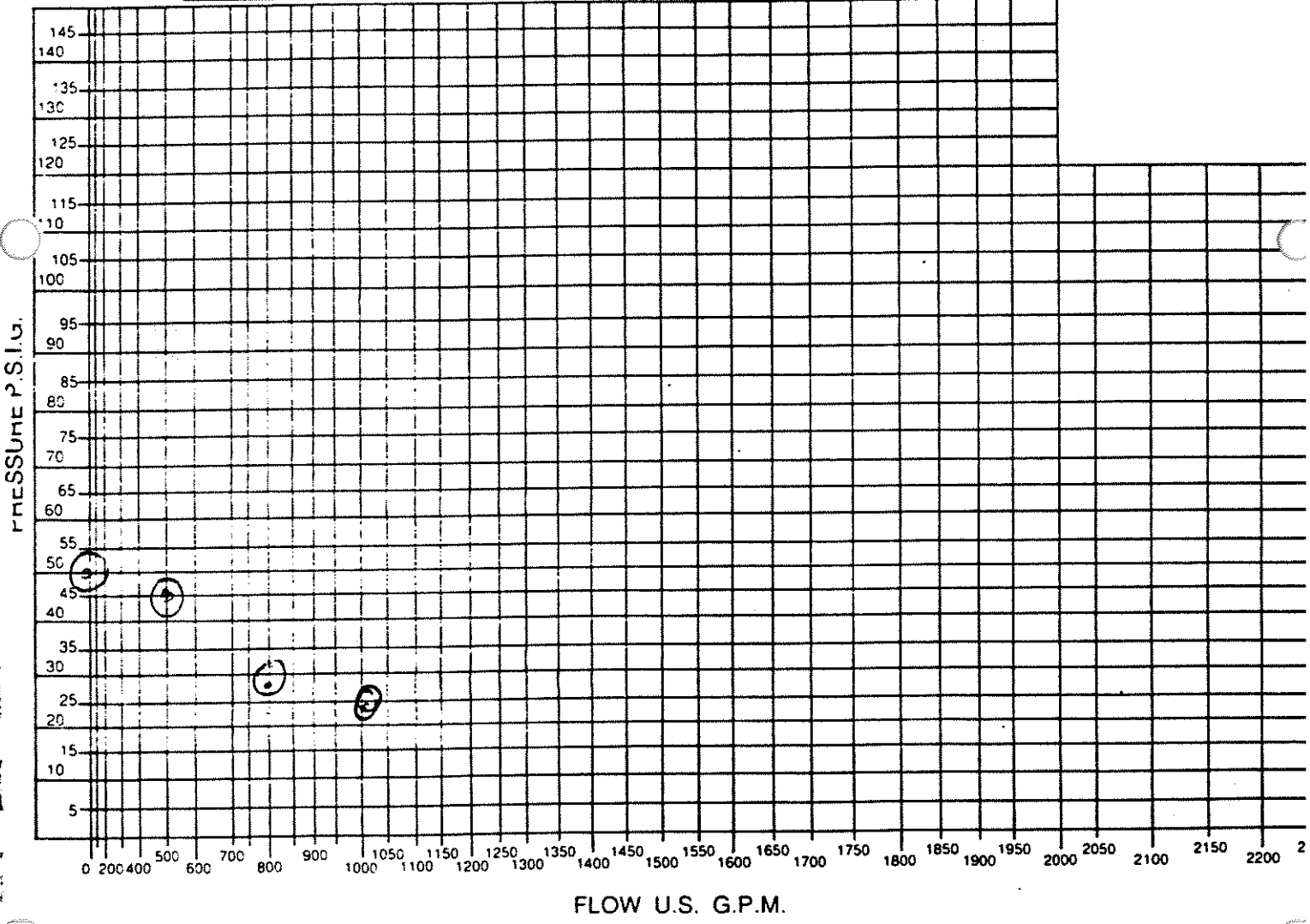
LOCATION 3101A Old Finch Ave

TEST DATA

TIME OF TEST 9:00am
LOCATION OF TEST: (FLOW) Hydrant (East side of garage) #18
(RESIDUAL) Hydrant (West end of north service) #19
MAIN SIZE 6" inch
STATIC PRESSURE 50 psi

NUMBER OF OUTLETS & ORIFICE SIZE PITOT PRESSURE FLOW (U.S.G.P.M.) RESIDUAL PRESSURE

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1	1 x 1 3/4"	40	518	45
#2	1 x 2 1/2"	23	800	28
#3	2 x 2 1/2"	11	1108	25
#4				



COMMENTS Flow test - GREEN

Authorized Signature _____ A-1 HYDRANT Signature [Signature]



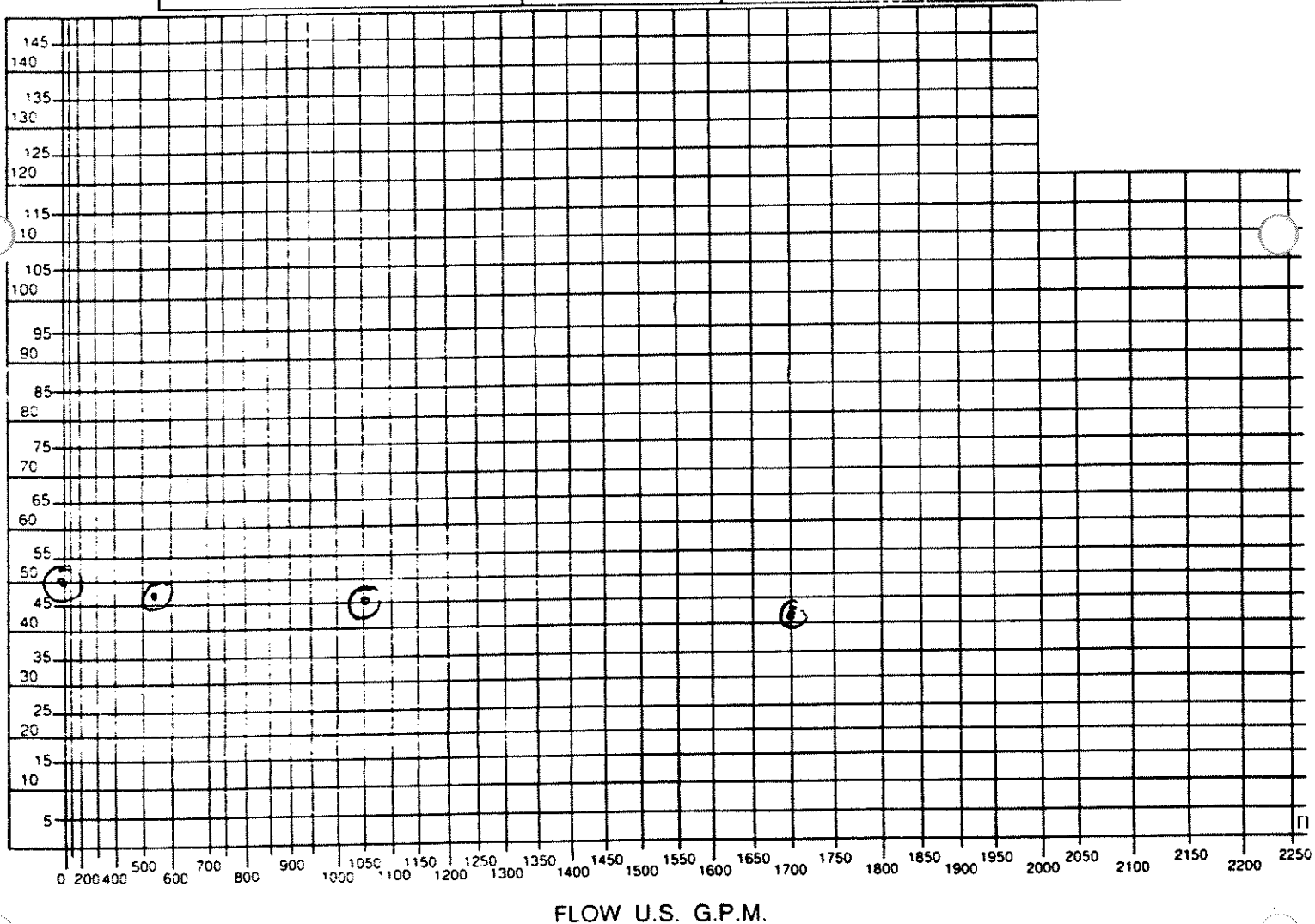
A-1 HYDRANT SERVICES LTD. 550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo DATE Dec 21/98
LOCATION 361A Old Finch Ave

TEST DATA

TIME OF TEST 11:00am
LOCATION OF TEST (FLOW) Hydrant (N/E of Special Events Tent) #12
(RESIDUAL) 3/4 hose bib (Siamese Tiger building) ♀
MAIN SIZE 4" inch
STATIC PRESSURE 50 psi

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S G P M)	RESIDUAL PRESSURE
#1	1 X 1 3/4"	44	544	47
#2	1 X 2 1/2"	40	1056	45
#3	2 X 2 1/2"	26	1703	42
#4				



COMMENTS FLOW TEST - BLUE

Authorized Signature _____

A-1 HYDRANT Signature _____



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo

DATE Dec 21/98

LOCATION 361A Old Finch Ave

TEST DATA

TIME OF TEST: 11:30 am

LOCATION OF TEST: (FLOW) Hydrant (West of ~~North American~~ McDonald's) #10

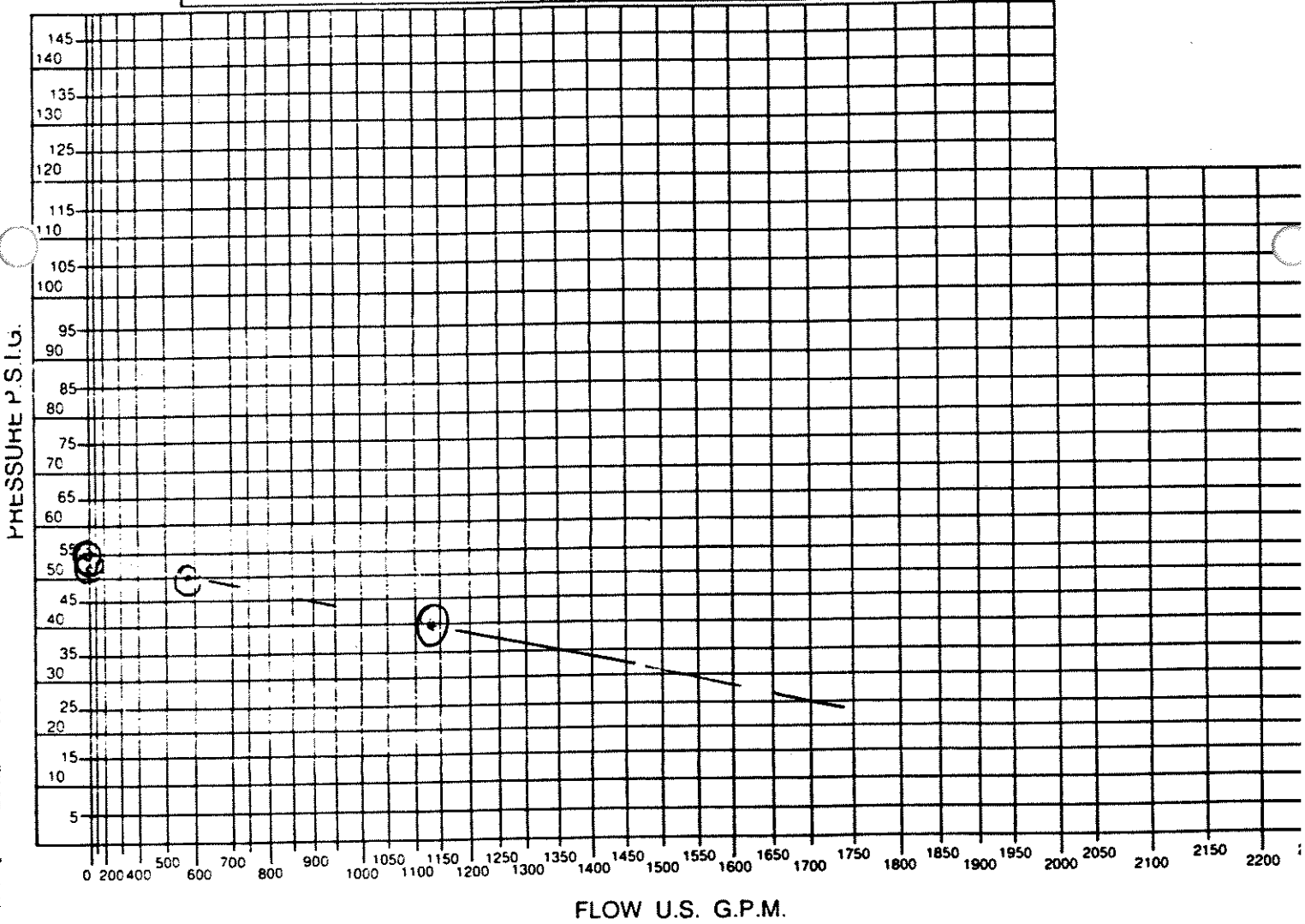
(RESIDUAL) Hydrant (North of North American Pavilion) #11

MAIN SIZE: 8" inch

STATIC PRESSURE: 55 psi

NUMBER OF OUTLETS & ORIFICE SIZE PITOT PRESSURE FLOW (U.S.G.P.M.) RESIDUAL PRESSURE

NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1 1 x 1 3/4"	52	591	50
#2 1 x 2 1/2"	46	1133	40
#3			
#4			



COMMENTS: Unable to flow 2 x 2 1/2" inch due to surroundings. - FLOW TEST - Beck

Authorized Signature _____

A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD. 550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

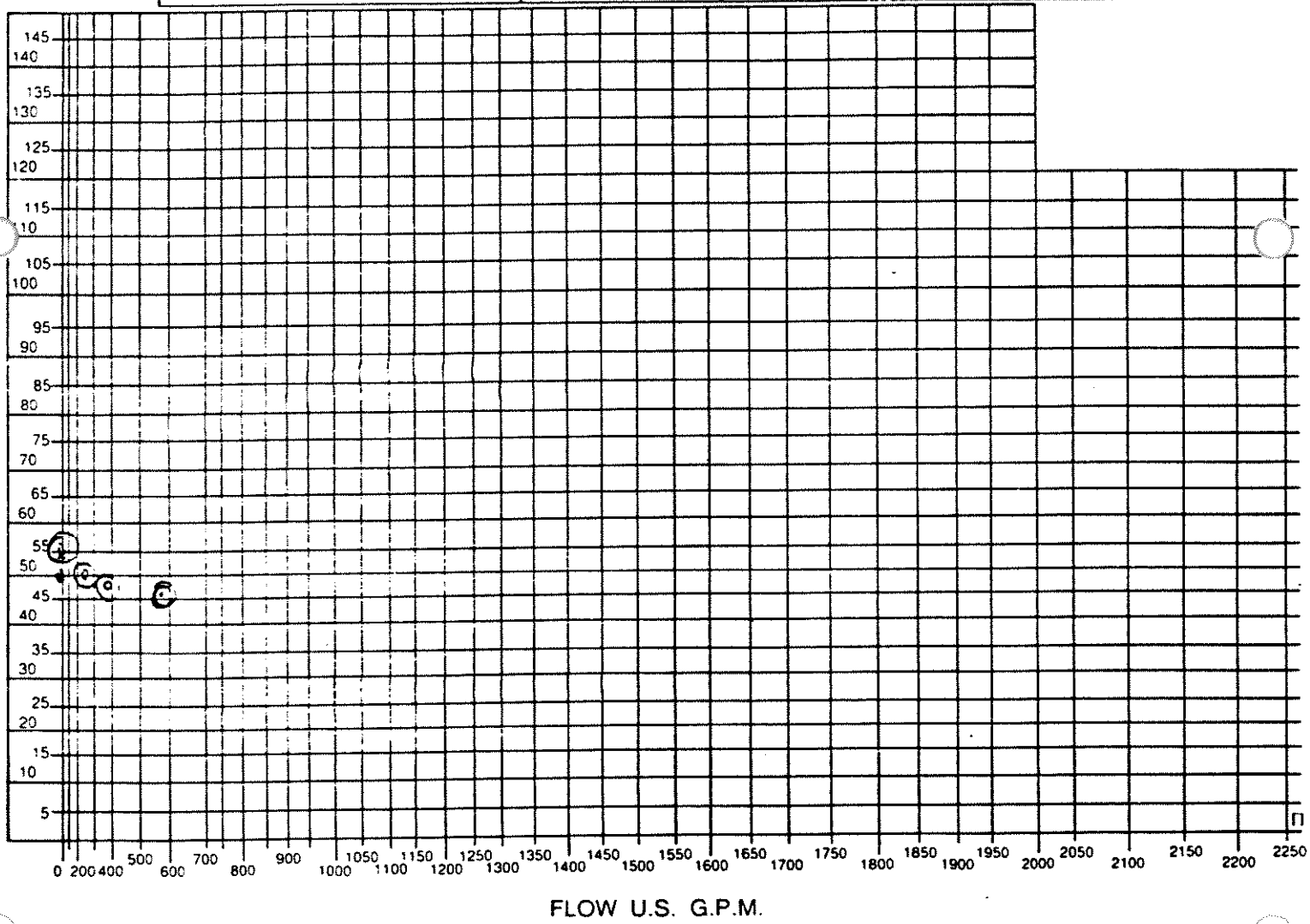
SITE NAME Toronto Metro Zoo DATE Dec 21/98
LOCATION 361A Old Finch Ave

TEST DATA

TIME OF TEST 12:00 pm
LOCATION OF TEST: (FLOW) Hydrant (Outside holding area) #9
(RESIDUAL) Hydrant (South end of main temple) #8
MAIN SIZE 6" x 4" inch
STATIC PRESSURE 56 psi

NUMBER OF OUTLETS & ORIFICE SIZE PITOT PRESSURE FLOW (U.S.G.P.M.) RESIDUAL PRESSURE

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1	1 X 1 3/4"	9	246	50
#2	1 X 2 1/2"	5	373	48
#3	2 X 2 1/2"	3	578	46
#4				



COMMENTS FLOW TEST - FLOW HYDRANT - RED
RES. HYDRANT - BLUE OR GREEN

Authorized Signature _____ A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo DATE Dec 21/98

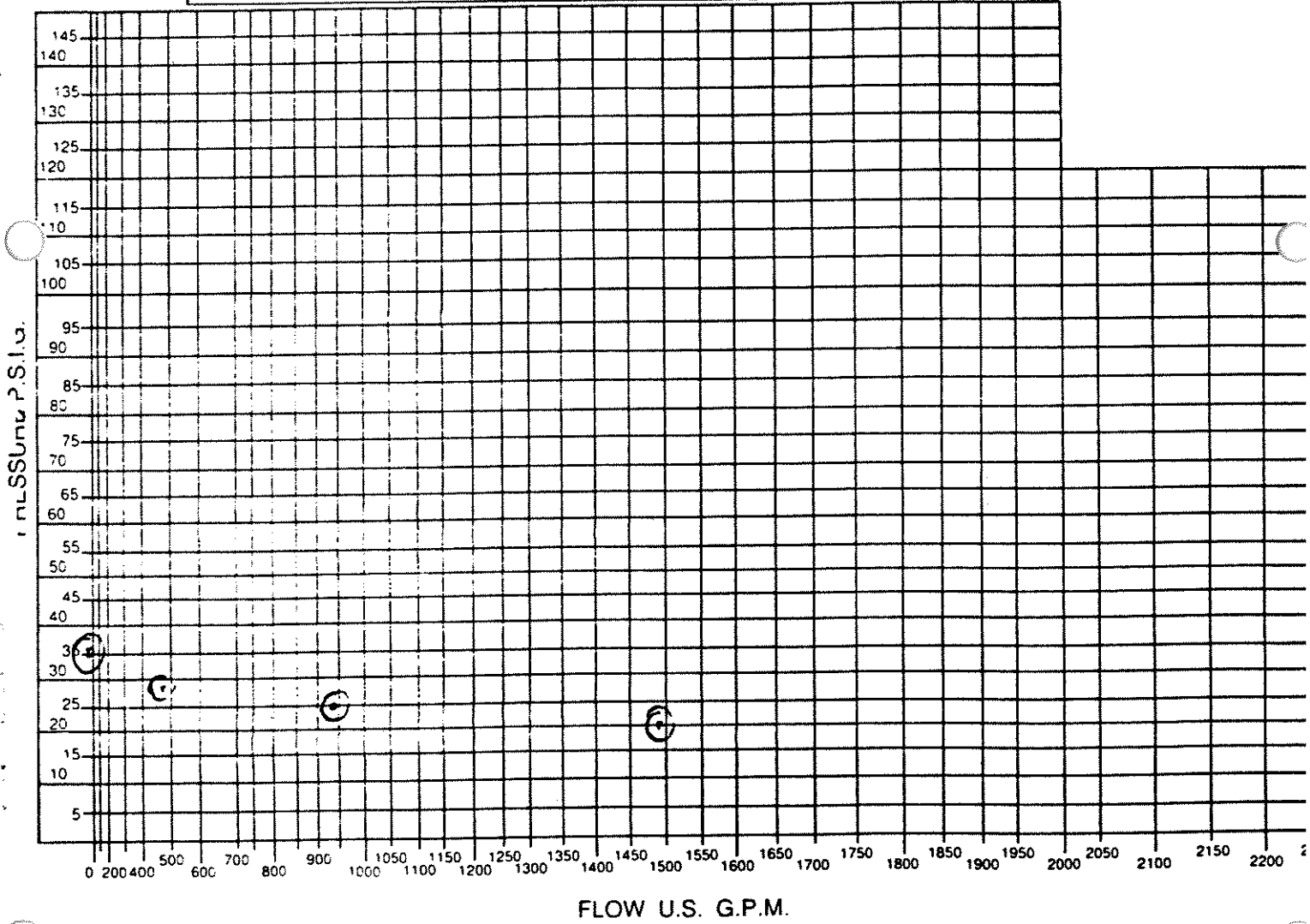
LOCATION 361A Old Finch Ave

TEST DATA

TIME OF TEST 1:00 pm
LOCATION OF TEST: (FLOW) Hydrant (NW of Africom M^oDonald's) #7
(RESIDUAL) Hydrant (South of Africom M^oDonald's) #6
MAIN SIZE 6 inch
STATIC PRESSURE: 35 psi

NUMBER OF OUTLETS & ORIFICE SIZE PITOT PRESSURE FLOW (U.S.G.P.M.) RESIDUAL PRESSURE

NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1 1 X 1 3/4"	34	478	28
#2 1 X 2 1/2"	32	945	25
#3 2 X 2 1/2"	20	1494	20
#4			



COMMENTS Flow TEST - OK

Authorized Signature _____

A-1 HYDRANT Signature _____



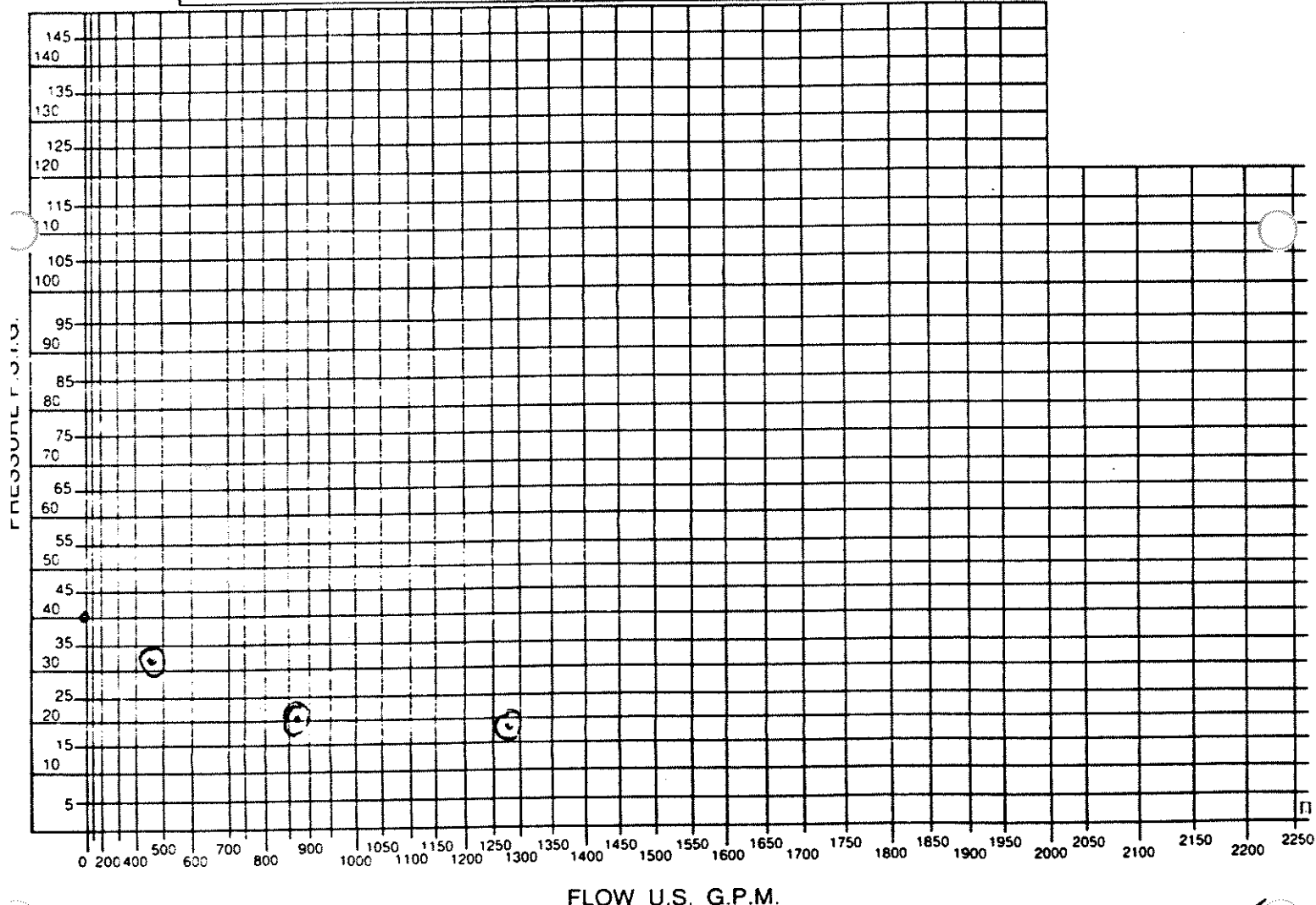
A-1 HYDRANT SERVICES LTD. 550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo DATE Dec 21/98
LOCATION 361A Old Finch Ave

TEST DATA

TIME OF TEST: 1:45 pm
LOCATION OF TEST: (FLOW) Hydrant (Outside gorilla door) #4
(RESIDUAL) Hydrant (West side of African Pavilion) #5
MAIN SIZE 10" inch
STATIC PRESSURE: 40

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1	1 X 1 3/4"	32	46.3	32
#2	1 X 2 1/2"	27	86.8	20
#3	2 X 2 1/2"	15	129.4	28
#4				



COMMENTS FLOW TEST - CR. 106 / CRP. 10

Authorized Signature _____ A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo

DATE Dec 21/98

LOCATION 3614 Old Finch Ave

TEST DATA

TIME OF TEST 3:50 pm

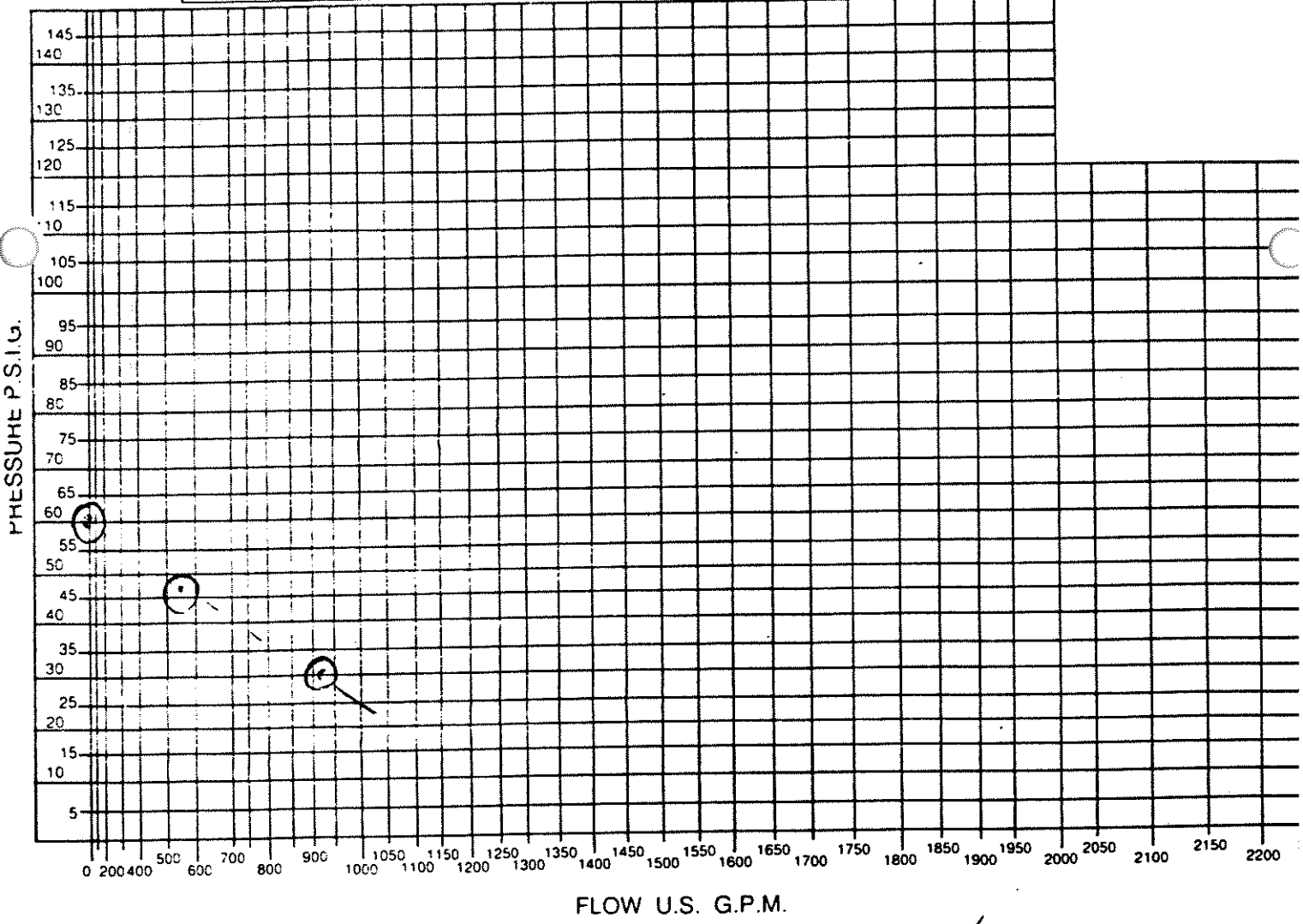
LOCATION OF TEST: (FLOW) Hydrant (West of Indian Pines building) #1

(RESIDUAL) 3/4" hose bib (Inside Indian Pines building) #4

MAIN SIZE 6" inch

STATIC PRESSURE 60 psi

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1	1 X 1 3/4"	46	556	47
#2	1 X 2 1/2"	30	914	30
#3				
#4				



COMMENTS Flow TEST - GREEN!

Authorized Signature _____ A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo
LOCATION 361A Old Finch Ave

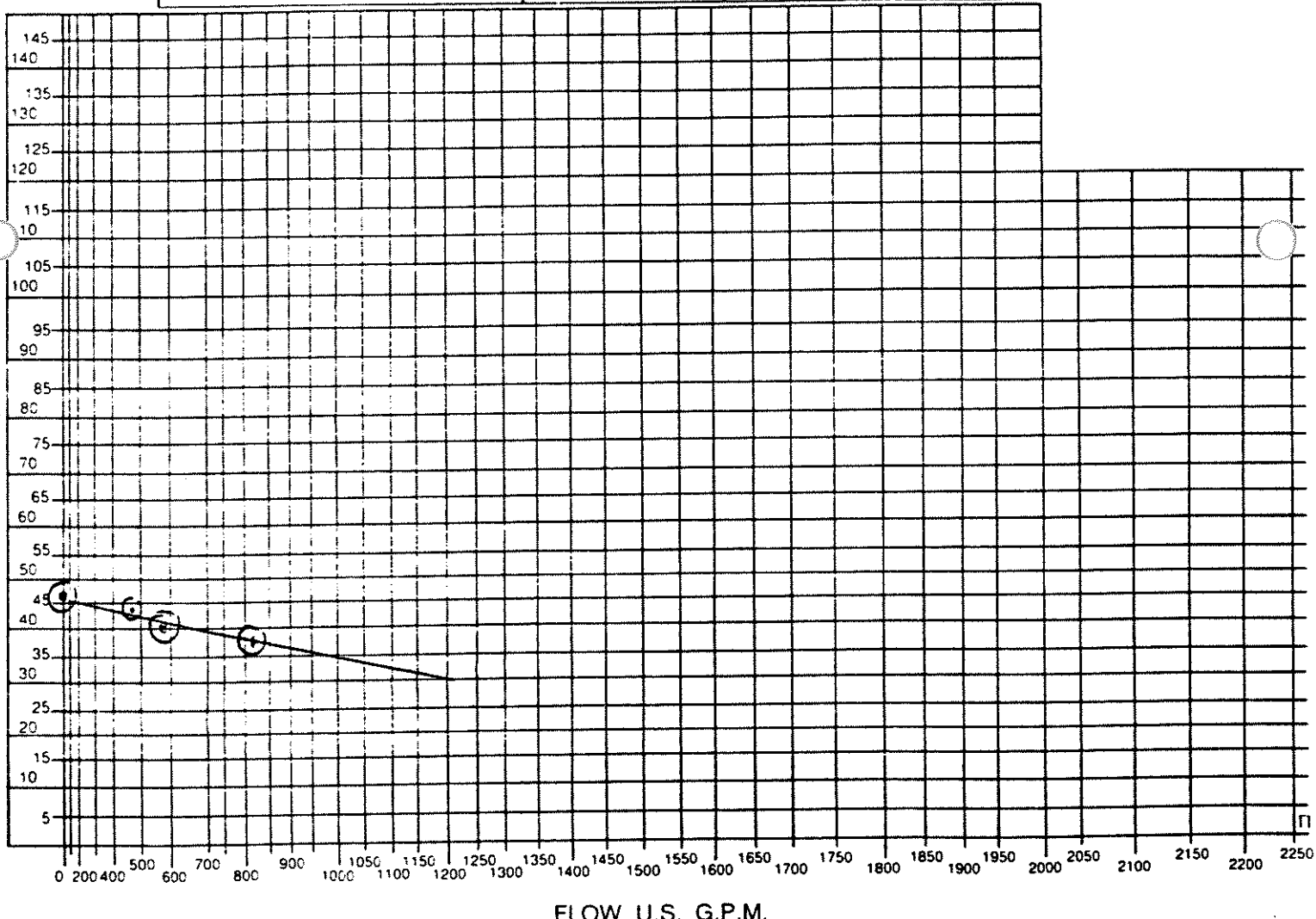
DATE Dec 23/98

TEST DATA

TIME OF TEST 10:30am
LOCATION OF TEST (FLOW) Hydrant (North American Domain) #22
(RESIDUAL) Hydrant (South of Old Metagaska Restaurant) #21
MAIN SIZE 4" inch
STATIC PRESSURE 46 psi

NUMBER OF OUTLETS & ORIFICE SIZE PITOT PRESSURE FLOW (U.S.G.P.M.) RESIDUAL PRESSURE

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1	1 X 1 3/4"	33	471	44
#2	1 X 2 1/2"	12	580	40
#3	2 X 2 1/2"	6	820	38
#4				



COMMENTS FLOW TEST - FLOW HYD - ORANGE
RES HYD - GREEN BUVE
Authorized Signature _____ A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

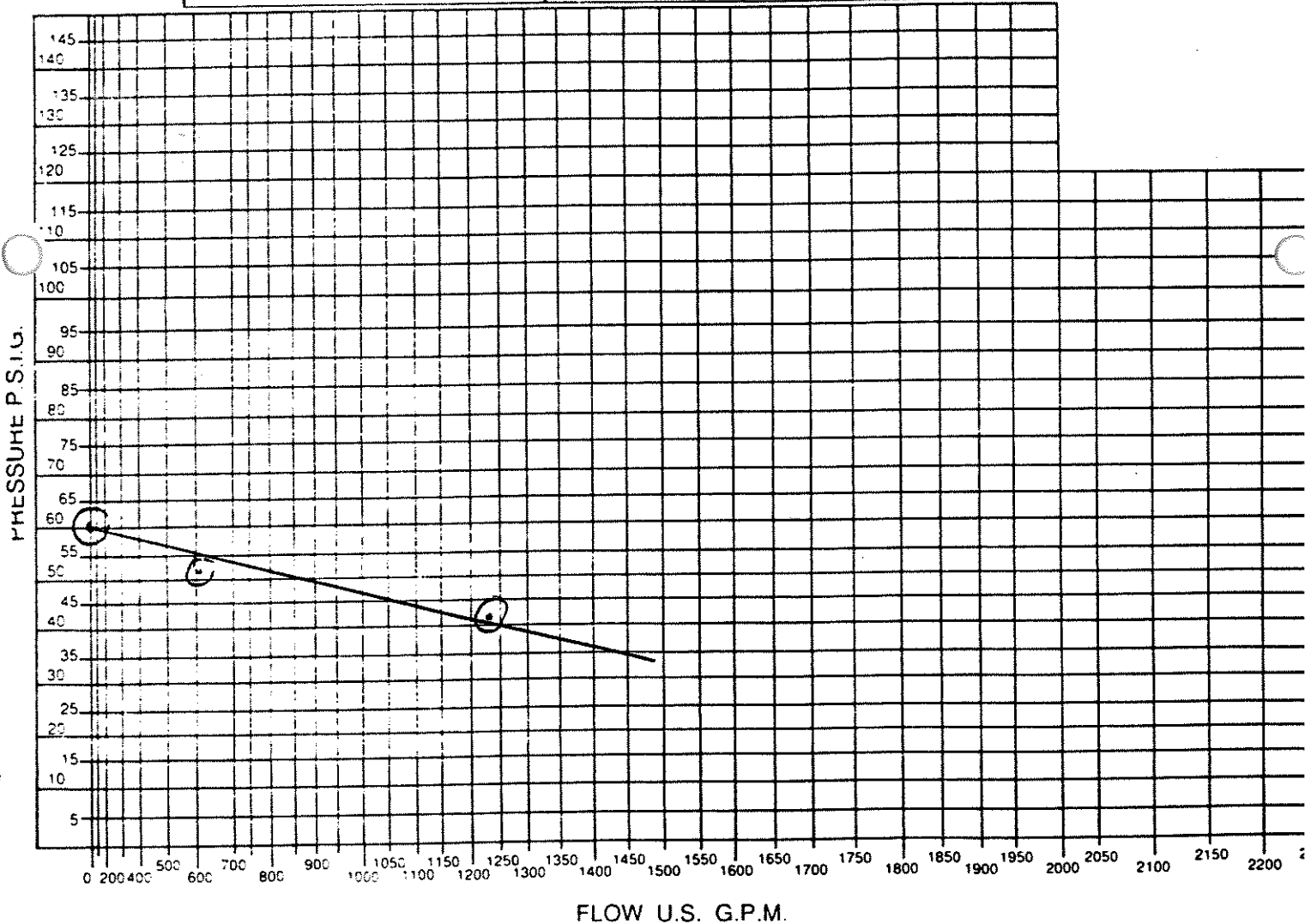
SITE NAME Toronto Metro Zoo DATE Dec 23/98

LOCATION 361A Old Finch Ave

TEST DATA

TIME OF TEST 8:45am
LOCATION OF TEST (FLOW) Hydrant (East of Society) # 26
(RESIDUAL) Hydrant (South of Society) # 27
MAIN SIZE 6" inch
STATIC PRESSURE 60 psi

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1	1 X 1 3/4"	54	602	52
#2	1 X 2 1/2"	54	1230	42
#3				
#4				



COMMENTS FLOW TEST - BLUE.

Authorized Signature _____ A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo DATE Dec 23/98

LOCATION 361A Old Finch Ave

TEST DATA

TIME OF TEST 10:00am

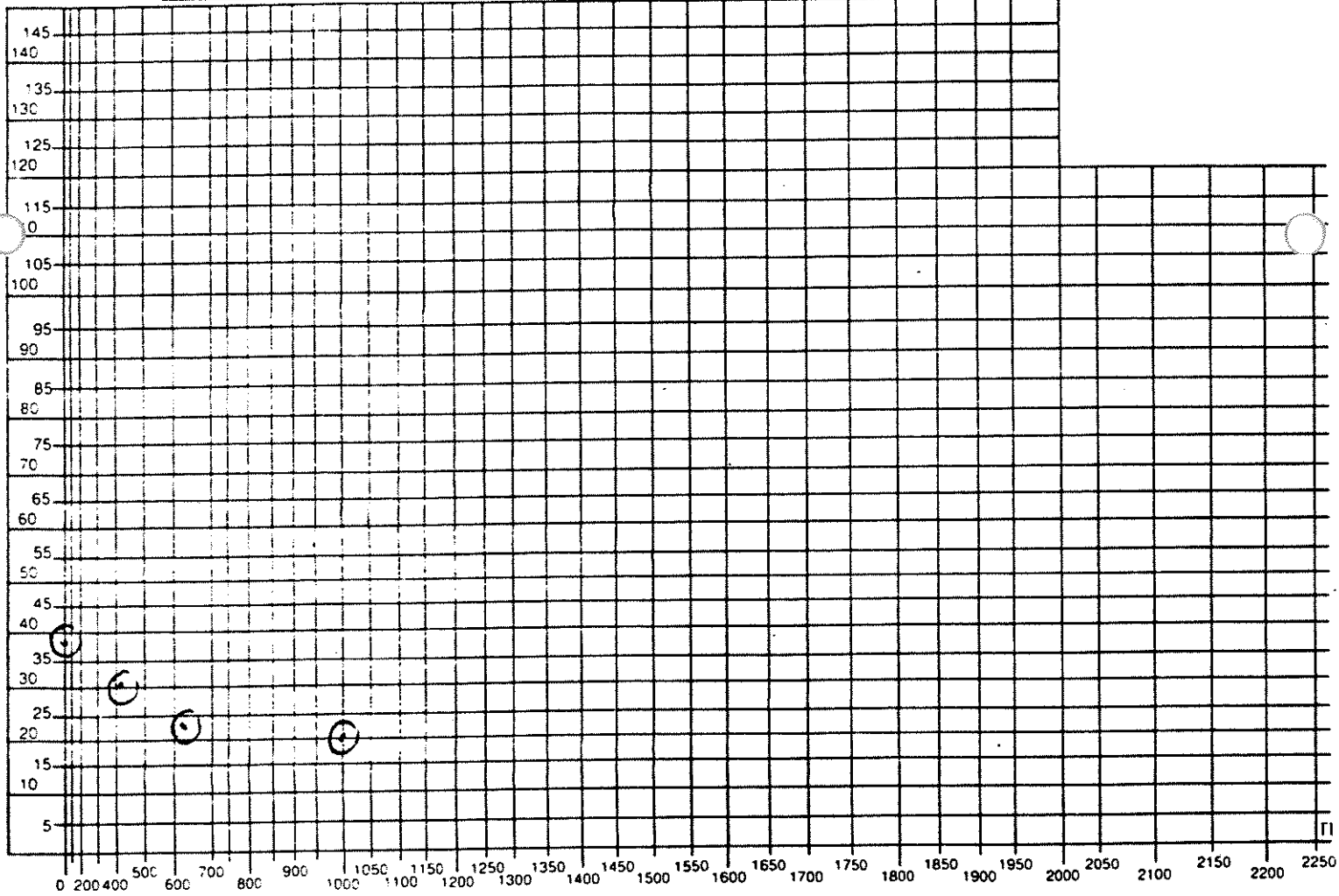
LOCATION OF TEST: (FLOW) Hydrant (North of Cheetah Building) #24

(RESIDUAL) Hydrant (New Savana Restaurant) #23

MAIN SIZE 4" inch

STATIC PRESSURE 38 psi

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U S G P M)	RESIDUAL PRESSURE
#1	1 X 1 3/4"	26	417	30
#2	1 X 2 1/2"	14	626	24
#3	2 X 2 1/2"	9	1004	29
#4				



FLOW U.S. G.P.M.

COMMENTS FLOW TEST - FLOW HYD - ORANGE

Authorized Signature _____ A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit #18
Scarborough, Ont. M1E 4V1
282-1665

SITE NAME Toronto Metro Zoo DATE Dec 21/98

LOCATION 3161A Old Finch Ave

TEST DATA

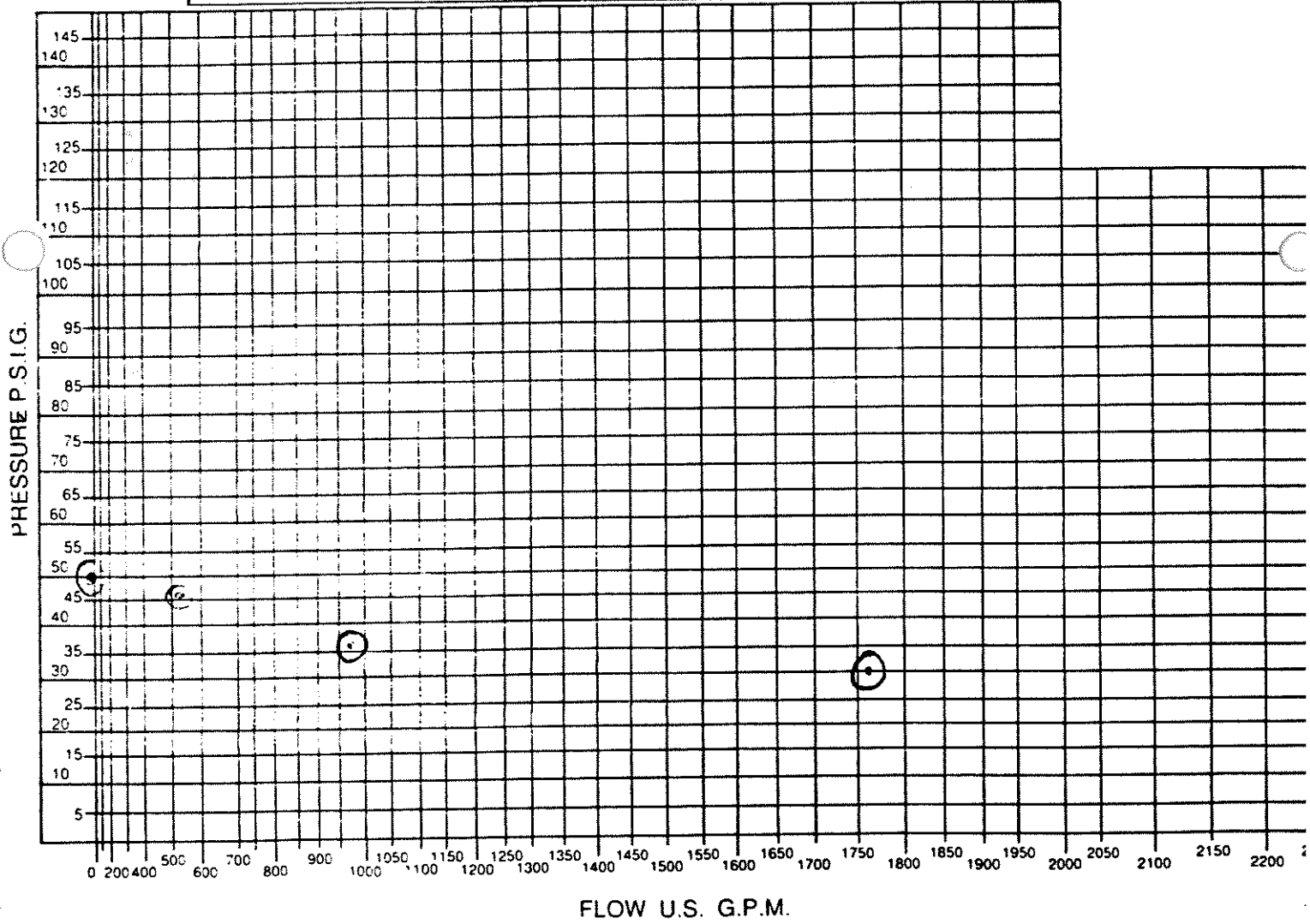
TIME OF TEST 9:20 am

LOCATION OF TEST (FLOW) Hydrant (N/E of north service) #17
(RESIDUAL) Hydrant (S/E of north service) #16

MAIN SIZE 8" inch

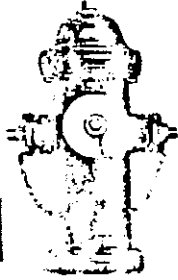
STATIC PRESSURE 50 psi

	NUMBER OF OUTLETS & ORIFICE SIZE	PITOT PRESSURE	FLOW (U.S.G.P.M.)	RESIDUAL PRESSURE
#1	1 x 1 3/4"	41	525	46
#2	1 x 2 1/2"	34	974	36
#3	2 x 2 1/2"	28	1767	30
#4				



COMMENTS Flow test - BLUE

Authorized Signature _____ A-1 HYDRANT Signature [Signature]



A-1 HYDRANT SERVICES LTD.

550 Coronation Dr., Unit # 18
Scarborough, On. M1E 4V1
TEL: (416) 282-1665
FAX: (416) 282-7702
1-888-FIX-A-HYD

Metro Toronto Zoo c/o
Paradigm Engineering Ltd.
1300 Don Mills Road, Suite 235,
North York, ON
M3B 2W6

Attention: Mr. Doug Shields
416-444-5211
416-444-9222

INVOICE#: H9159-1
DATE: December 30/98
Customers#: D.Shields
OUR JOB#: H9159
G.S.T. #: R100371152
P.S.T.#: 85685569
TERMS: NET 15 DAYS

DESCRIPTION	AMOUNT	TOTAL
-------------	--------	-------

LOCATION: Metro Toronto Zoo

To bill for the following:

12 flow tests at \$75.00 each	900.00	
29 hydrant a.p.m.'s at \$40.00 each	<u>1,160.00</u>	
	2,060.00	
G.S.T.	144.20	

TOTAL AMOUNT DUE: \$ 2,204.20

APPENDIX 8

GAS TEST RESULTS

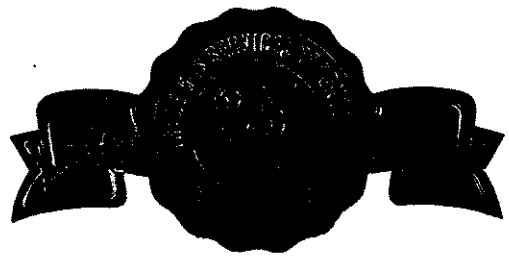


Trade Gas Services (Toronto) Ltd.
 29 Golden Gate Court
 SCARBOROUGH, ONTARIO M1P 3A4

INVOICE

4204

(416) 293-6742 Fax (416) 293-6765
 GST #R105339410



TO

PARADIGM ENGINEERING GROUP INC.
 1300 Don Mills Road, Suite 235
 North York, Ont. M3B 2W6

DATE Jan 5, 1999 JOB NO. _____
 JOB NAME Metro Zoo
 JOB LOCATION _____

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Test checked gas supply lines as requested by Paradigm Engineering Group Inc.		
	<u>Indo-Malaya Pavilion #1 Test</u>		
	To determin the static pressure and working pressure at three points (branch lines) of the gas service.		
	11 M meter with Fisher Type 133L-3 Reg.		
	Max inlet 60 P.S.I.		
	Max outlet 2 P.S.I.		
	2 - National Champion Furnaces 4,350,000 each.		
	1 - Pool heater Hayward H-250 250,000 BTU each		
	1 - DHW Aerco heater 1,000,000 BTU each		
	1 - Pool heater Hayward H-150 150,000 BTU each		
	Shut off each appliance, shut gas valve at meter and tested pressure + 43 P.S.I.		
	Shut off appliances, shut gas, removed gage and started appliances again.		
	<u>North Main Service Bldg. #2 Test.</u>		
	7 M meter with Fisher type S203 Reg. 3/4" Orf.		
	1 - Eng. Air HE40 (Paint Shop) 250,000 BTU each		
	2 - Teledyne Laars HB-3000 3,000,000 BTU each		
	2 - Teledyne Laars HB-3500 3,500,000 BTU each		
	4 - Rheem Ruud RF76-Z50C (DHW) 250,000 BTU each		
	2 - Rheem Ruud PV40-36M (DHW) 36,000 BTU each		
	Shut off each appliance, shut off gas valve at meter		
TERMS:		SUBTOTAL	
Cont.....		GST	
		PST	
		TOTAL	

THANK YOU

Grade Gas Services (Toronto) Ltd.

29 Golden Gate Court
 SCARBOROUGH, ONTARIO M1P 3A4

INVOICE

~~110555~~

(416) 293-6742 Fax (416) 293-6765
 GST #R105339410

INVOICE # 4204

TO

DATE _____ JOB NO. _____
 JOB NAME _____
 JOB LOCATION _____

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	and tested static pressure = 44 P.S.I.		
	Started appliances and tested working pressure = 40 P.S.I.		
	Shut off appliances, shut gas at meter and removed gage.		
	Opened gas at meter and relit pilots.		
	Started appliances up again.		
	<u>Consumers Gas Main Station #3 Test.</u>		
	Removed plug on test point at station.		
	Installed gage and checked pressure = 44 P.S.I.		
	Removed gage and installed plug.		

APPENDIX 9

WATER TEST RESULTS



APPENDIX 10

**SANITARY SEWER TEST RESULTS
(PRINT)**



Trans-Video Inspection Limited
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: NONE GIVEN

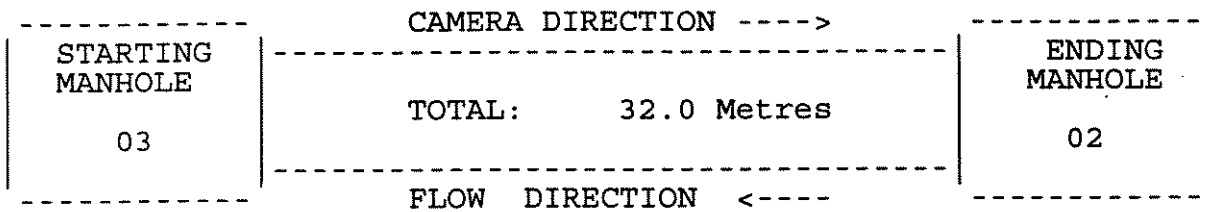
DATE: Jan 26 1999
TIME: 09:11:07

INSP. BY: F.H.
DISK No: 01FH
TAPE No: 01FH
PIPE SIZE: 375mm
FLOW DIR: North

REF. AREA: WO #1685
FILE NAME: TVI91773.RPT
TAPE COUNT: 00:00:00
PIPE TYPE: SANITARY/AC
CAMERA DIR: Against Flow

=====

STARTING LOCATION: 3RD MH N OF THE INDO PAVILLION PIPE DEPTH:4.0m	ENDING LOCATION: 2ND MH N OF THE INDO PAVILLION PIPE DEPTH:N/A-NO ACCESS
---	--



=====

Summary Comments

LIGHT DEBRIS UNDER THE FLOW.

Distance	Inspection Comments
At To	
0.0	Starting manhole - 03
1.5	Moderate steam hampering inspection
32.0	Ending manhole - 02
32.0	End of inspection

Trans-Video Inspection Limited
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: NONE GIVEN

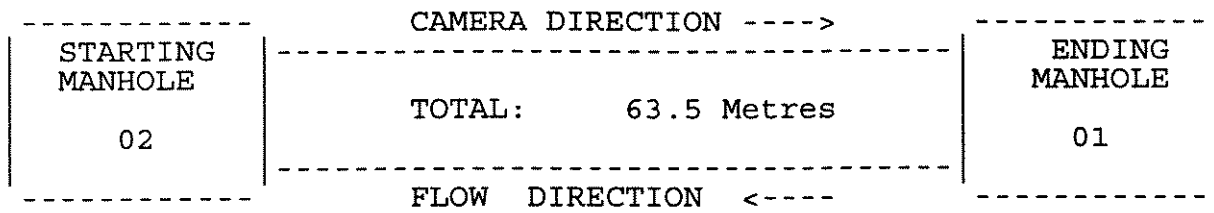
DATE: Jan 26 1999
TIME: 09:40:11

INSP. BY: F.H.
DISK No: 01FH
TAPE No: 01FH
PIPE SIZE: 375mm
FLOW DIR: North

REF. AREA: WO #1685
FILE NAME: TVI91774.RPT
TAPE COUNT: 00:02:25
PIPE TYPE: SANITARY/AC
CAMERA DIR: Against Flow

=====

STARTING LOCATION: 2ND MH N OF THE INDO PAVILLION PIPE DEPTH:N/A-NO ACCESS	ENDING LOCATION: 1ST MH N OF THE INDO PAVILLION PIPE DEPTH:N/A-NO ACCESS
--	--



=====

Summary Comments

EXTRA MH NOT SHOWN ON THE MAP.LIGHT
DEBRIS IN THE LINE.

Distance			Inspection Comments
At	To		
0.0			Starting manhole - 02
0.0	7.0		Light debris in line - Invert
7.0			Extra manhole not shown
63.6			Ending manhole - 01
63.5			Ending manhole - 01
63.5			End of inspection

Trans-Video Inspection Limited
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: NONE GIVEN

DATE: Jan 26 1999
TIME: 10:14:35

INSP. BY: F.H.
DISK No: 01FH
TAPE No: 01FH
PIPE SIZE: 200mm
FLOW DIR: West

REF. AREA: WO #1685
FILE NAME: TVI91775.RPT
TAPE COUNT: 00:06:50
PIPE TYPE: SANITARY/AC
CAMERA DIR: Against Flow

=====
STARTING LOCATION: EAST OF THE OLD ELEPHANT HOUSE
PIPE DEPTH: 3.4m
ENDING LOCATION: FENCE LINE OF OLD ELELPHNT HOUSE
PIPE DEPTH: N/A-NO ACCESS
=====

STARTING MANHOLE	CAMERA DIRECTION ---->	ENDING MANHOLE
04	TOTAL: 51.0 Metres	05
	FLOW DIRECTION <----	

=====
Summary Comments

LIGHT CALCITE AT A SERVICE CONNECTION.

Distance	Inspection Comments
At	To
0.0	Starting manhole - 04
3.4	Light calcite at service connection - 2 O'clock
51.0	Ending manhole - 05
51.0	End of inspection

Trans-Video Inspection Limited
SEWER TV. INSPECTION REPORT

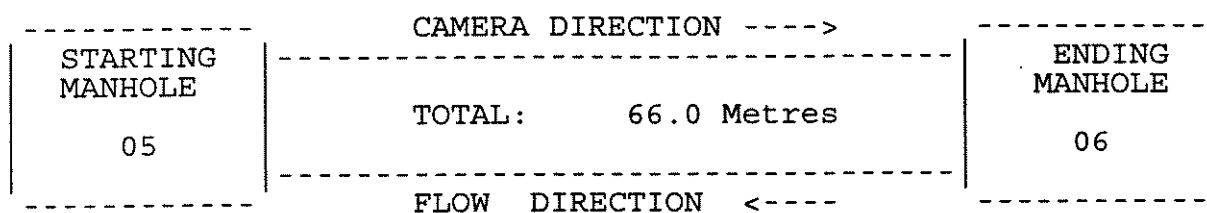
CLIENT: METRO TORONTO ZOO.
STREET: NONE GIVEN

DATE: Jan 26 1999
TIME: 10:36:17

INSP. BY: F.H.
DISK No: 01FH
TAPE No: 01FH
PIPE SIZE: 200mm
FLOW DIR: West

REF. AREA: WO #1685
FILE NAME: TVI91776.RPT
TAPE COUNT: 00:12:55
PIPE TYPE: SANITARY/AC
CAMERA DIR: Against Flow

=====
STARTING LOCATION: FENCE LINE OF OLD ELEPHANT HOUSE
ENDING LOCATION: ELEPHANT WATERING HOLE
PIPE DEPTH:N/A-NO ACCESS PIPE DEPTH:N/A-NO ACCESS
=====



=====
Summary Comments
=====

THE PIPE APPEARS TO BE IN GOOD CONDITION

Distance	Inspection Comments
At	To
0.0	Starting manhole - 05
66.0	Ending manhole - 06
66.0	End of inspection

Trans-Video Inspection Limited
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: NONE GIVEN

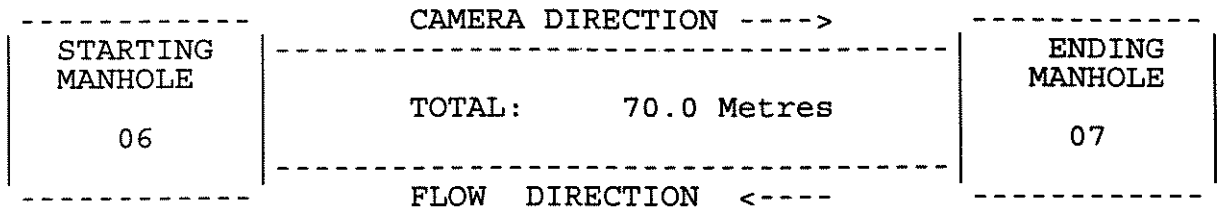
DATE: Jan 26 1999
TIME: 10:43:06

INSP. BY: F.H.
DISK No: 01FH
TAPE No: 01FH
PIPE SIZE: 200mm
FLOW DIR: West

REF. AREA: WO #1685
FILE NAME: TVI91777.RPT
TAPE COUNT: 00:17:10
PIPE TYPE: SANITARY/AC
CAMERA DIR: Against Flow

STARTING LOCATION:
ELEPHANT WATERING HOLE
PIPE DEPTH:N/A-NO ACCESS

ENDING LOCATION:
BUSH CAMP
PIPE DEPTH:N/A-NO ACCESS



Summary Comments

THE PIPE APPEARS TO BE IN GOOD CONDITION

Distance	Inspection Comments
At	To
0.0	Starting manhole - 06
70.0	Ending manhole - 07
70.0	End of inspection

Trans-Video Inspection Limited
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: MAIN PARKING LOT "P" SECTION

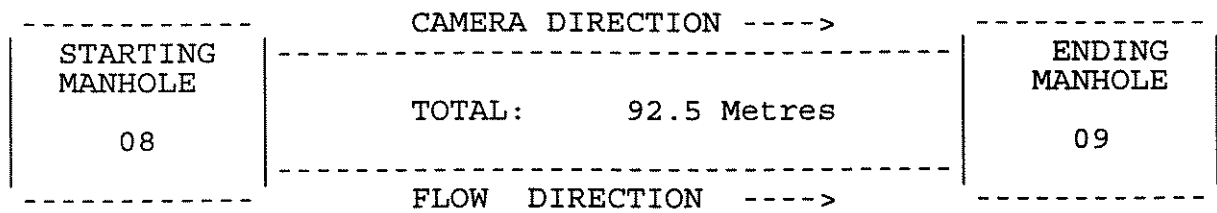
DATE: Jan 26 1999
TIME: 11:50:34

INSP. BY: F.H.
DISK No: 01FH
TAPE No: 01FH
PIPE SIZE: 525mm
FLOW DIR: East

REF. AREA: WO #1685
FILE NAME: TVI91778.RPT
TAPE COUNT: 00:21:55
PIPE TYPE: SANITARY/AC
CAMERA DIR: With Flow

STARTING LOCATION:
2ND MH E OF THE RIVER
PIPE DEPTH:5.3m

ENDING LOCATION:
1ST MH E OF THE RIVER
PIPE DEPTH:N/A-NO ACCESS



Summary Comments

LIGHT DEBRIS UNDER THE FLOW.

Distance	Inspection Comments
At	To
0.0	Starting manhole - 08
92.5	Ending manhole - 09
92.5	End of inspection

Trans-Video Inspection Limited
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: MAIN PARKING LOT "P" SECTION

DATE: Jan 26 1999
TIME: 12:26:58

INSP. BY: F.H.
DISK No: 01FH
TAPE No: 01FH
PIPE SIZE: 525mm
FLOW DIR: East

REF. AREA: WO #1685
FILE NAME: TVI91779.RPT
TAPE COUNT: 00:26:05
PIPE TYPE: SANITARY/AC
CAMERA DIR: With Flow

STARTING LOCATION:
1ST MH E OF THE RIVER
PIPE DEPTH:N/A-NO ACCESS

ENDING LOCATION:
1ST MH W OF THE RIVER
PIPE DEPTH:N/A-NO ACCESS

CAMERA DIRECTION ---->	
STARTING MANHOLE	ENDING MANHOLE
09	10
TOTAL: 81.0 Metres	
FLOW DIRECTION ---->	

Summary Comments

LIGHT DEBRIS UNDER THE FLOW.

Distance	Inspection Comments
At	To
0.0	Starting manhole - 09
81.0	Ending manhole - 10
81.0	End of inspection



APPENDIX 11

**SANITARY SEWER TEST RESULTS
(VIDEO)**



APPENDIX 12

STORM SEWER TEST RESULTS (PRINT)



Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: "D" GATE SOUTH OF OLD PINCH RD

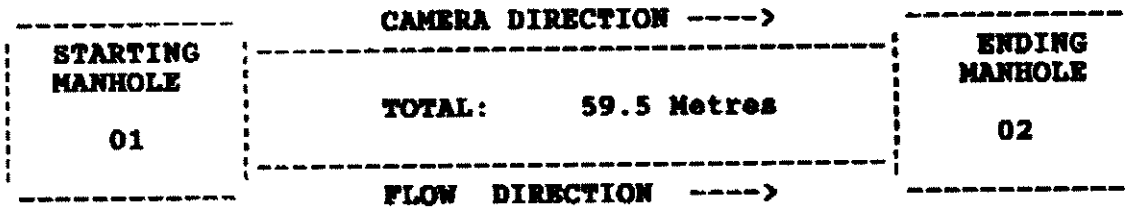
DATE: Feb 5 1999
TIME: 08:22:26

INSP. BY: P.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 675mm
FLOW DIR: South

REP. AREA:
FILE NAME: TVI90517.RPT
TAPE COUNT: 00:00:00
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

=====

STARTING LOCATION: NORTH OF GATE "D" PIPE DEPTH:2.5m	ENDING LOCATION: SOUTH OF GATE "D" PIPE DEPTH:N/A
--	---



=====

Summary Comments

PONDING AND DEBRIS IN THE LINE.HEAVY
CALCITE BELOW A SERVICE CONNECTION.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 01
1.5	48.4	Moderate ponding in line
4.9	9.1	Moderate debris in line - Invert
9.1		Service connection - 11 O'clock
9.1		Service protruding greater than 1" - 2 O'clock
14.2	58.2	Moderate debris in line - Invert
26.0		Service connection - 11 O'clock
26.0	26.0	Heavy calcite in line - 8 O'clock
26.9		Service connection - Crown
36.8		Service connection - 11 O'clock
48.4		Service connection - 1 O'clock
59.5		Ending manhole - 02
59.5		End of inspection

Report generated by Ratech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: "D" GATE SOUTH OF OLD FINCH RD

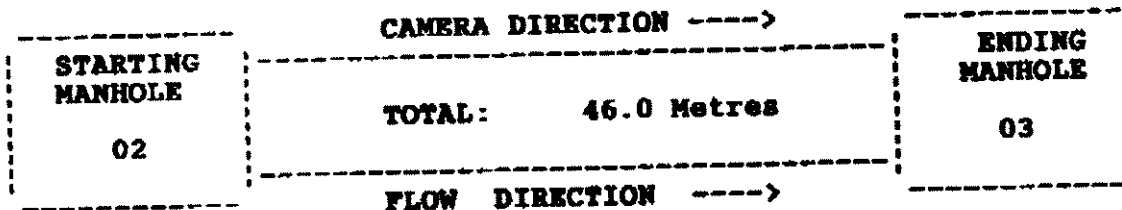
DATE: Feb 5 1999
TIME: 09:11:29

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 675mm
FLOW DIR: South

REF. AREA:
FILE NAME: TVI90518.RPT
TAPE COUNT: 00:06:05
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

STARTING LOCATION:
SOUTH OF GATE "D"
PIPE DEPTH:N/A

ENDING LOCATION:
2ND MH S OF OF "D" GATE
PIPE DEPTH:N/A



Summary Comments

LIGHT PONDING IN THE LINE.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 02
1.1		Service connection - 11 O'clock
6.7		Service connection - 11 O'clock
6.7	13.7	Light ponding in line
15.1		Service connection - Crown
17.6		Service connection - Crown
23.7		Service connection - 2 O'clock
31.2		Service connection - 11 O'clock
46.0		Ending manhole - 03
46.0		End of inspection

Report generated by Ratech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: "D" GATE SOUTH OF OLD FINCH RD

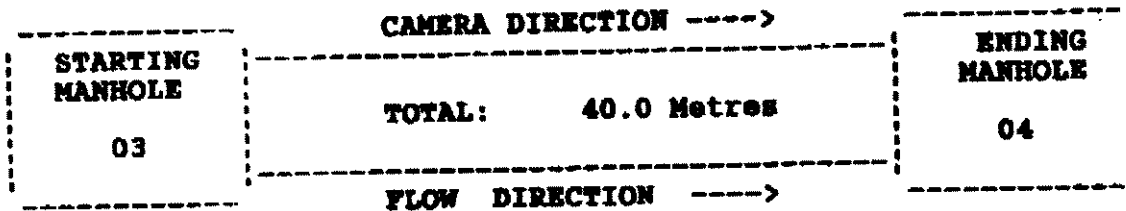
DATE: Feb 5 1999
TIME: 09:19:08

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 675mm
FLOW DIR: South

REF. AREA:
FILE NAME: TVI90519.RPT
TAPE COUNT: 00:10:50
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

STARTING LOCATION:
2ND MH S OF OF "D" GATE
PIPE DEPTH:N/A

ENDING LOCATION:
3RD MH S OF OF "D" GATE
PIPE DEPTH:N/A



Summary Comments

MH LID IN THE ENDING MH.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 03
19.6	38.3	Light ponding in line
40.0		MH LID IN THE
40.0		Ending manhole - 04
40.0		End of inspection

Report generated by Ratech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

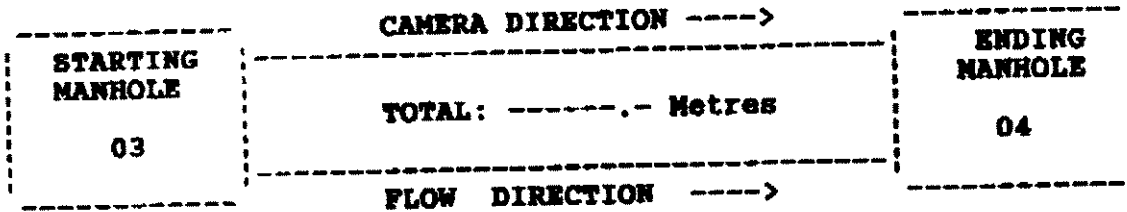
CLIENT: METRO TORONTO ZOO.
STREET: "D" GATE SOUTH OF OLD FINCH RD

DATE: Feb 5 1999
TIME: 09:38:42

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 675mm
FLOW DIR: South

REF. AREA:
FILE NAME: TVI90520.RPT
TAPE COUNT: 00:10:50
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

=====
STARTING LOCATION: 2ND MH S OF OF "D" GATE
PIPE DEPTH:N/A
ENDING LOCATION: 3RD MH S OF OF "D" GATE
PIPE DEPTH:N/A



Report generated by Ratech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA B

DATE: Feb 5 1999
TIME: 09:39:24

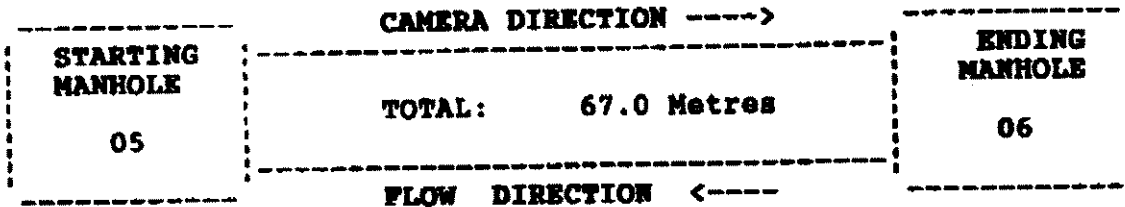
INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 600mm
FLOW DIR: East

REF. AREA:
FILE NAME: TVI90521.RPT
TAPE COUNT: 00:13:25
PIPE TYPE: STORM/CONC
CAMERA DIR: Against Flow

=====

STARTING LOCATION:
1ST MH W OF EURASIA PAV.
PIPE DEPTH: 3.3m

ENDING LOCATION:
N OF NORTH AMERICAN PAV.
PIPE DEPTH: N/A



=====

Summary Comments

LIGHT DEBRIS AND PONDING IN THE LINE.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 05
33.1	60.9	Light debris in line - Invert
35.5		Service connection - 9 O'clock
54.4		Service connection - 10 O'clock
60.9	65.4	Moderate ponding in line
67.0		Ending manhole - 06
67.0		End of inspection

Report generated by Ratch Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA 8

DATE: Feb 5 1999
TIME: 09:52:20

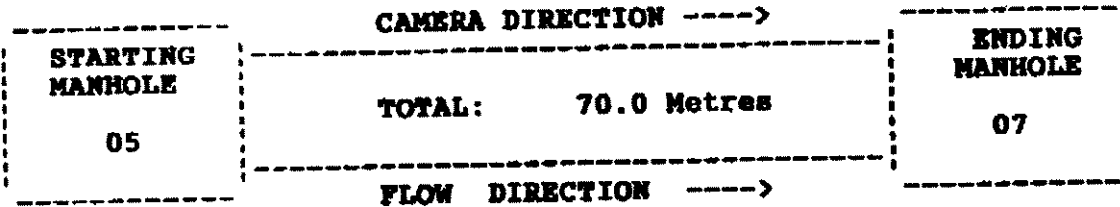
INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 675mm
FLOW DIR: East

REF. AREA:
FILE NAME: TVI90522.RPT
TAPE COUNT: 00:18:20
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

=====

STARTING LOCATION:
1ST MH W OF EURASIA PAV.
PIPE DEPTH: 3.3m

ENDING LOCATION:
@ EURASIA PAV.
PIPE DEPTH: N/A



=====

Summary Comments

LIGHT PONDING AND DEBRIS IN THE LINE.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 05
1.5	19.0	Light ponding in line
8.7	19.8	Moderate debris in line - Invert
46.4		Service connection - 2 O'clock
67.5		Internal drop in pipe
70.0		Ending manhole - 07
70.0		End of inspection

Report generated by Ratech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA 8

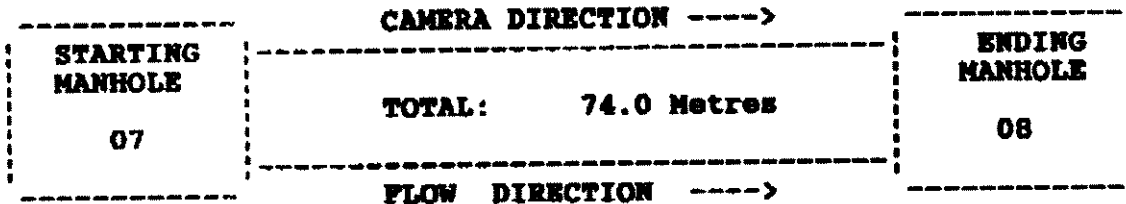
DATE: Feb 5 1999
TIME: 10:19:52

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 900mm
FLOW DIR: East

REF. AREA:
FILE NAME: TVI90523.RPT
TAPE COUNT: 00:18:20
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

STARTING LOCATION:
8 URASIA PAV.
PIPE DEPTH:3.6m

ENDING LOCATION:
EAST OF MH 07
PIPE DEPTH:N/A



Summary Comments

THE PIPE APPEARS TO BE IN GOOD CONDITION

Distance	Inspection Comments
At To	
0.0	Starting manhole - 07
3.3	Service connection - 10 O'clock
8.9	Service connection - 2 O'clock
24.0	Service connection - 3 O'clock
27.9	Service connection - 10 O'clock
74.0	Ending manhole - 08
74.0	End of inspection

Report generated by Rotech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA 8

DATE: Feb 5 1999
TIME: 10:27:06

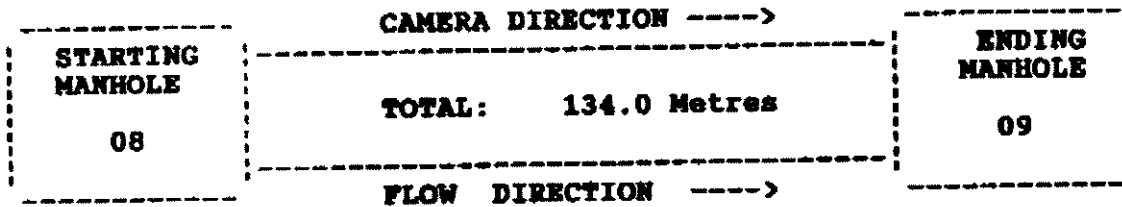
INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 900mm
FLOW DIR: East

REF. AREA:
FILE NAME: TVI90524.RPT
TAPE COUNT: 00:26:55
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

=====

STARTING LOCATION:
EAST OF MH 07
PIPE DEPTH:N/A

ENDING LOCATION:
EAST OF MH 08
PIPE DEPTH:N/A



=====

Summary Comments

THE PIPE APPEARS TO BE IN GOOD CONDITION

Distance	Inspection Comments
At To	
0.0	Starting manhole - 08
21.5	Service connection - 2 O'clock
103.9	Service protruding greater than 1" - 1 O'clock
134.0	Ending manhole - 09
134.0	End of inspection

 Report generated by Ratch Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
 SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
 STREET: AREA 17

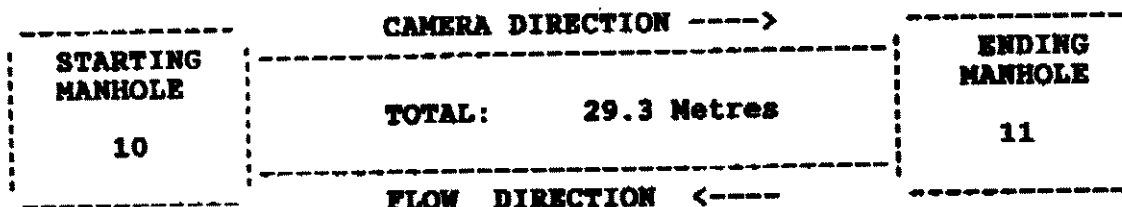
DATE: Feb 5 1999
 TIME: 12:02:36

INSP. BY: F.H.
 DISK No: 02FH
 TAPE No: 02FH
 PIPE SIZE: 450mm
 FLOW DIR: S/W

REF. AREA:
 FILE NAME: TVI90525.RPT
 TAPE COUNT: 00:33:25
 PIPE TYPE: STORM/CONC
 CAMERA DIR: Against Flow

=====

STARTING LOCATION: S OF THE SAV. REST. S/S OF ROAD PIPE DEPTH:N/A	ENDING LOCATION: W/E OF MH 10 PIPE DEPTH:N/A
---	--



=====

Summary Comments

THE CAMERA WAS BLOCKED BY HEAVY GRAVEL.
 REVERSE SETUP WAS NOT REQUESTED.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 10
1.5	9.8	Light debris in line - Invert
4.2		Service connection - 2 O'clock
9.8	29.3	Moderate debris in line - Invert
27.8		Service connection - 2 O'clock
28.7		Service connection - 9 O'clock
29.3	29.3	Heavy debris in line - Invert
29.3		Camera blocked in line
29.3		End of inspection

Report generated by Ratech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA 17

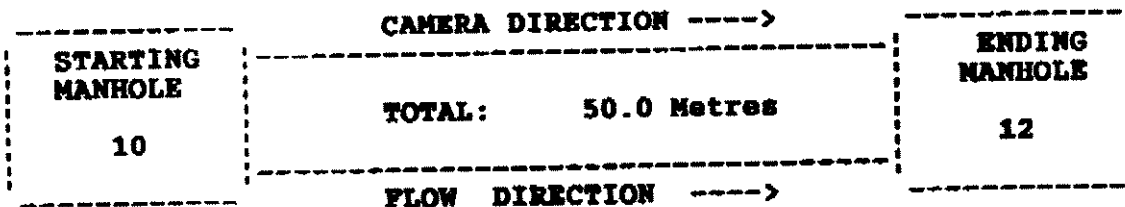
DATE: Feb 5 1999
TIME: 12:14:58

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 450mm
FLOW DIR: West

REF. AREA:
FILE NAME: TVI90526.RPT
TAPE COUNT: 00:38:05
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

=====

STARTING LOCATION: S OF THE SAV. REST. S/S OF ROAD PIPE DEPTH:N/A	ENDING LOCATION: WEST OF MH 10 PIPE DEPTH:N/A
---	---



=====

Summary Comments

THE CAMERA WAS BLOCKED BY DEBRIS.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 10
23.3	50.0	Light ponding in line
27.9	50.0	Light debris in line - Invert
50.0		Camera blocked in line
50.0		End of inspection

Report generated by Ratech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA 18

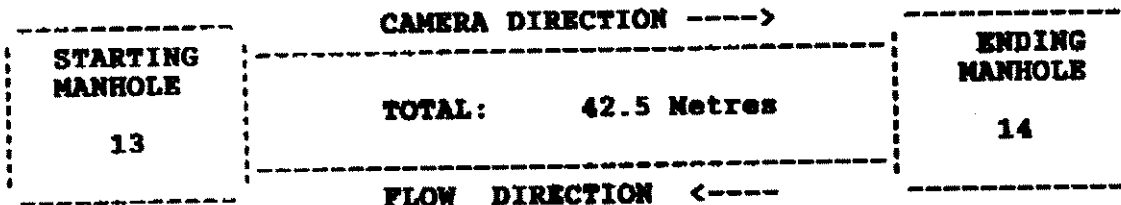
DATE: Feb 5 1999
TIME: 13:20:43

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 525mm
FLOW DIR: South

REF. AREA:
FILE NAME: TVI90527.RPT
TAPE COUNT: 00:43:10
PIPE TYPE: STORM/CONC
CAMERA DIR: Against Flow

=====

STARTING LOCATION: S/E CORNER OF THE ELEPHANT HOUSE PIPE DEPTH: 3.6m	ENDING LOCATION: S/E OF AFRICAN PAVILLION PIPE DEPTH: N/A
--	---



=====

Summary Comments

THE PIPE APPEARS TO BE IN GOOD CONDITION

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 13
23.2		Service connection - 9 O'clock
26.7		Service connection - 11 O'clock
42.5		Ending manhole - 14
42.5		End of inspection

Report generated by Ratach Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA 18

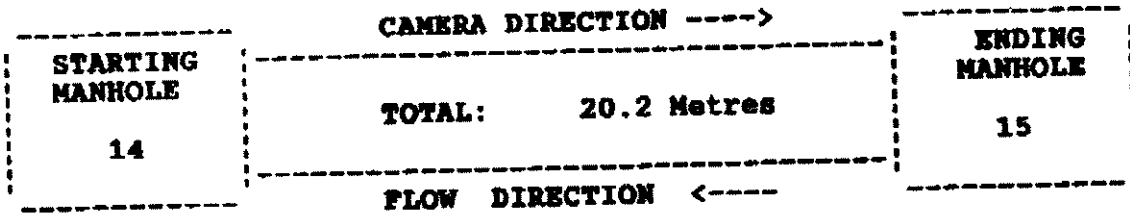
DATE: Feb 5 1999
TIME: 13:29:01

INSP. BY: P.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 525mm
FLOW DIR: South

REF. AREA:
FILE NAME: TVI90528.RPT
TAPE COUNT: 00:46:10
PIPE TYPE: STORM/CONC
CAMERA DIR: Against Flow

STARTING LOCATION:
S/E OF THE AFRICAN PAV.
PIPE DEPTH:N/A

ENDING LOCATION:
EAST ENTRANCE AFRICAN PAV.
PIPE DEPTH:N/A



Distance		Inspection Comments
At	To	
0.0		Starting manhole - 14
18.0		Service connection - 2 O'clock
20.2		Service protruding greater than 1" - 9 O'clock
20.2		Camera blocked in line
20.2		End of inspection

**Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT**

**CLIENT: METRO TORONTO ZOO.
STREET: AREA 18**

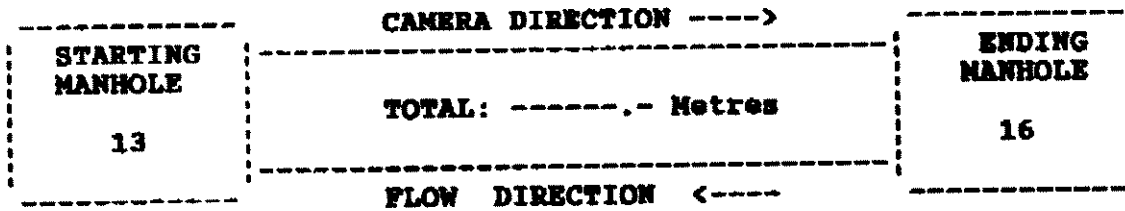
**DATE: Feb 5 1999
TIME: 13:36:11**

**INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 525mm
FLOW DIR: East**

**REF. AREA:
FILE NAME: TVI90529.RPT
TAPE COUNT: 00:48:20
PIPE TYPE: STORM/CONC
CAMERA DIR: Against Flow**

=====

STARTING LOCATION: S/E CORNER OF THE ELEPHANT HOUSE PIPE DEPTH: 3.6m	ENDING LOCATION: S/W CORNER OF THE AFRICAN PAV. PIPE DEPTH: N/A
---	--



Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA 18

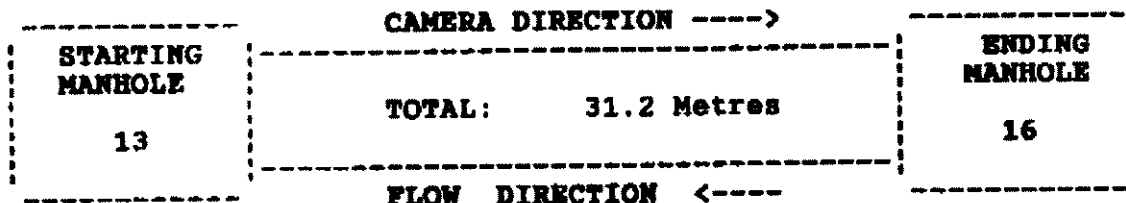
DATE: Feb 5 1999
TIME: 13:38:34

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 525mm
FLOW DIR: East

REF. AREA:
FILE NAME: TVI90530.RPT
TAPE COUNT: 00:48:20
PIPE TYPE: STORM/CONC
CAMERA DIR: Against Flow

=====

STARTING LOCATION: S/E CORNER OF THE ELEPHANT HOUSE PIPE DEPTH:3.6m	ENDING LOCATION: S/W CORNER OF THE AFRICAN PAV. PIPE DEPTH:N/A
---	--



=====

Summary Comments

THE CAMERA WAS BLOCKED BY DEBRIS. REVERSE
SETUP IS REQUESTED. UNABLE TO GIVE THE
SURFACE LENGTH, THERE ARE BUILDING IN
BETWEEN THE MH'S

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 13
1.5	31.2	Moderate debris in line - Invert
31.2		Camera blocked in line
31.2		End of inspection

**Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT**

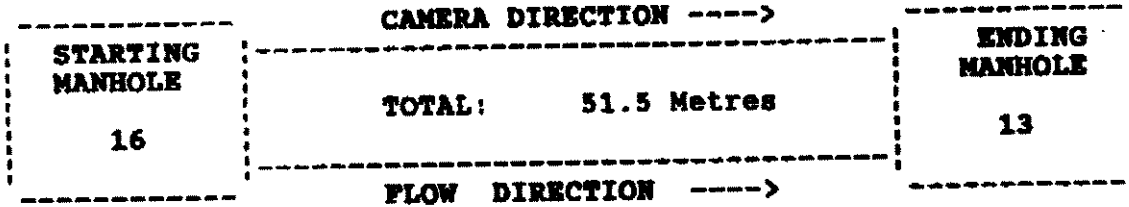
**CLIENT: METRO TORONTO ZOO.
STREET: AREA 18**

**DATE: Feb 5 1999
TIME: 13:52:21**

**INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 450mm
FLOW DIR: East**

**REF. AREA:
FILE NAME: TVI90531.RPT
TAPE COUNT: 00:52:50
PIPE TYPE: STORM/PVC
CAMERA DIR: With Flow**

=====
**STARTING LOCATION: S/W CORNER OF THE AFRICAN PAV.
PIPE DEPTH: N/A** **ENDING LOCATION: S/W CORNER OF THE ELEPHANT HOUSE
PIPE DEPTH: 3.6m**



=====
Summary Comments

THE PIPE SIZE IS 450mm. THE PIPE MATERIAL IS PVC. DEBRIS IN THE LINE.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 16
2.2	51.5	Moderate ponding in line
4.7	51.5	Moderate debris in line - Invert
51.5		Extra manhole not shown
51.5		End of inspection

Report generated by ~~Radtech Data Tech V Sewer TV Inspection System~~

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

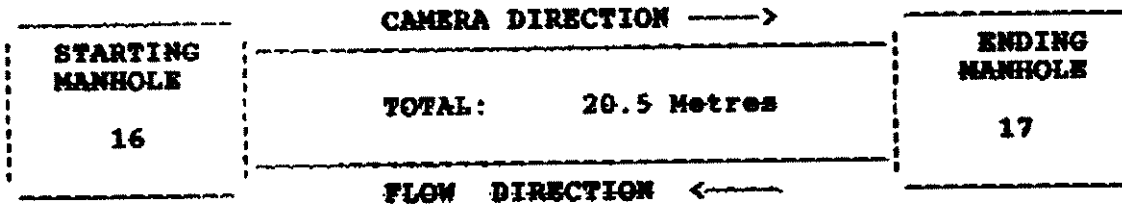
CLIENT: METRO TORONTO ZOO.
STREET: AREA 18

DATE: Feb 5 1999
TIME: 14:03:13

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 525mm
FLOW DIR: South

REF. AREA:
FILE NAME: TVI90532.RPT
TAPE COUNT: 00:55:35
PIPE TYPE: STORM/CONC
CAMERA DIR: Against Flow

STARTING LOCATION: S/W CORNER OF THE AFRICAN PAV.
PIPE DEPTH: N/A
ENDING LOCATION: 1ST MH N OF MH 16
PIPE DEPTH: N/A



Summary Comments

THE CAMERA WAS BLOCKED BY DEBRIS. REVERSE
SETUP WAS NOT REQUESTED.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 16
2.0	20.5	Moderate debris in line - Invert
20.5		Camera blocked in line
20.5		End of inspection

Report generated by Database Data Tech W Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA ?

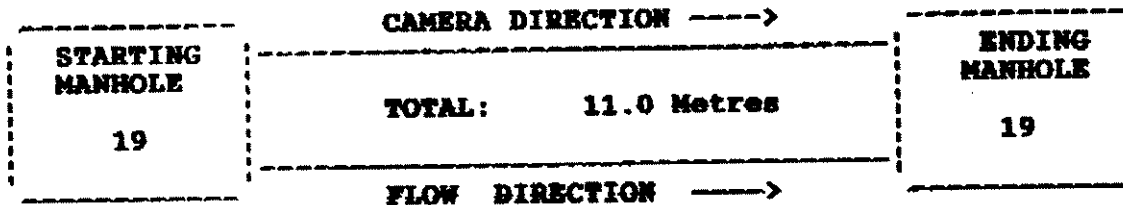
DATE: Feb 5 1999
TIME: 14:38:38

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 250mm
FLOW DIR: West

REF. AREA:
FILE NAME: TV190533.RPT
TAPE COUNT: 00:57:20
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

STARTING LOCATION:
1ST MH W OF THE CAMEL PEN
PIPE DEPTH:2.1m

ENDING LOCATION:
2ND MH W OF THE CAMEL PEN
PIPE DEPTH:N/A



Summary Comments

DEBRIS IN THE LINE.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 19
0.0	11.0	Moderate debris in line - Invert
11.0		Ending manhole - 19
11.0		End of inspection

Report generated by Rotech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

CLIENT: METRO TORONTO ZOO.
STREET: AREA ?

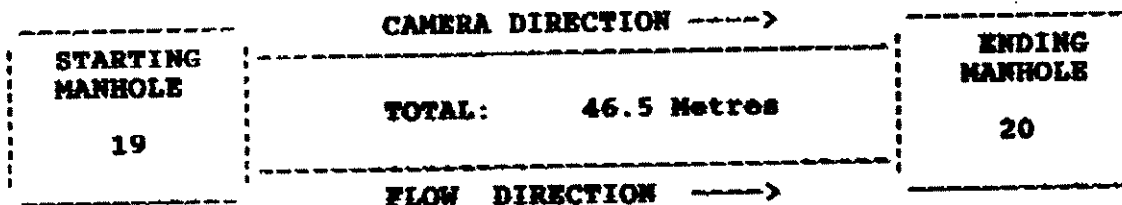
DATE: Feb 5 1999
TIME: 14:45:04

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 300mm
FLOW DIR: West

REF. AREA:
FILE NAME: TVI90534.RPT
TAPE COUNT: 00:59:00
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

STARTING LOCATION:
2ND MH W OF THE CAMEL PEN
PIPE DEPTH: N/A

ENDING LOCATION:
3RD MH W OF THE CAMEL PEN
PIPE DEPTH: N/A



Summary Comments

THE PIPE APPEARS TO BE IN GOOD CONDITION

Distance At	To	Inspection Comments
0.0		Starting manhole - 19
1.1		Service connection - 9 O'clock
46.5		Ending manhole - 20
46.5		End of inspection

Report generated by Ratch Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd. SEWER TV. INSPECTION REPORT

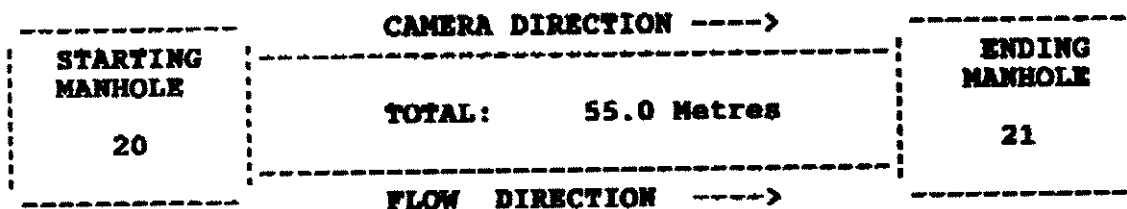
CLIENT: METRO TORONTO ZOO. STREET: AREA ?

DATE: Feb 5 1999 TIME: 14:49:40

INSP. BY: F.H. DISK No: 02FH TAPE No: 02FH PIPE SIZE: 375mm FLOW DIR: West

REF. AREA: FILE NAME: TVI90535.RPT TAPE COUNT: 01:02:10 PIPE TYPE: STORM/CONC CAMERA DIR: With Flow

STARTING LOCATION: 3RD MH W OF THE CAMEL PEN PIPE DEPTH:N/A ENDING LOCATION: 4TH MH W OF THE CAMEL PEN



Summary Comments

THE MAP IS WRONG SUPOSED TO MEET WITH MH 08. NOT THE CASE.

Table with 2 columns: Distance (At, To) and Inspection Comments. Includes entries for starting manhole, service connections at various angles, light ponding, calcite in line, and ending manhole.

Report generated by Ratech Data Tech V Sewer TV Inspection System

Trans-Video Inspection Ltd.
SEWER TV. INSPECTION REPORT

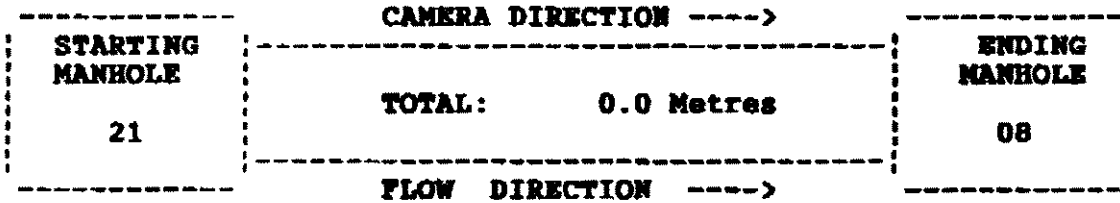
CLIENT: METRO TORONTO ZOO.
STREET: AREA ?

DATE: Feb 5 1999
TIME: 14:57:35

INSP. BY: F.H.
DISK No: 02FH
TAPE No: 02FH
PIPE SIZE: 375mm
FLOW DIR: West

REF. AREA:
FILE NAME: TVI90536.RPT
TAPE COUNT: 01:07:35
PIPE TYPE: STORM/CONC
CAMERA DIR: With Flow

STARTING LOCATION: 4TD MH W OF THE CAMEL PEN
ENDING LOCATION: 5TH MH W OF THE CAMEL PEN



Summary Comments

THE CAMERA WAS UNABLE TO MAKE THE BEND
IN THE MH.

Distance		Inspection Comments
At	To	
0.0		Starting manhole - 21
0.0		CAMERA NOT ABLE TO MAKE THE BEND
0.0		Camera blocked in line
0.0		End of inspection

APPENDIX 13

STORM SEWER TEST RESULTS (VIDEO)



APPENDIX 14

COMPONENT QUANTITY TAKE-OFFS



**SITE SERVICES COMPONENTS
QUANTITY TAKE-OFF**

	Totals	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Area 9	Area 10	Area 11	Area 12
Water													
1. Fire Hydrant	28		1	5					6	1			1
2. Gate Valves	5												1
3. Main Valve	95		3	12	3			4	20	10			7
4. Drinking Fountain	18				2				2	3			1
5. Building Valves	39			2	2			1	7	5			3
6. Man Holes	5			1					3	1			
7. Main Sprinkler Building Valve	1			1									
8. Non Freeze Hydrant	9		1					1	2	6			
9. Pumping Stations	1							1					
10. Pool Valve/Water Tap	8				6					2			3
11. Curb Stop	50		1	1					4	14			5
12. Curb Stop/Bldg. Valve	1			1	1								
13. Water Bowl	8			2					5				
14. Sprinklers	2												
15. Water Main Chamber	1												
16. Water Spray Post	1												
Gas													
1. Gas Valves	3			2									
2. Building Valve	1												
Sanitary/Storm													
1. Area Drains	4												
2. Clean Outs	5								2				
3. Catch Basins	275		2	46	15	10		2	27	17	11		23
4. Man Holes	328		2	36	24	3		12	33	35	10		25
5. Pool Drains	1												1
6. Pumping Stations	4				1				1	1			
7. Catch Basin/Man Hole	1												
8. Floor Drain	2								2				
Electrical													
1. Electrical Panels	3		1					1	1				
2. Hydro Outlet	7									4			
3. Light Standards	33												
4. Hydro Vault (transformer)	27		1	2				1	3	7			3
5. Transformer	49												
6. Electrical Man Holes	1												
7. Junction Boxes	14												
8. Elec. Post	2				1				1				

SITE SERVICES COMPONENTS
QUANTITY TAKE-OFF

	Area 13	Area 14	Area 15	Area 16	Area 17	Area 18	Area 19	Area 20	Area 21	Area 22	Area 23
Water											
1. Fire Hydrant	5	1				7		1			
2. Gate Valves	4										
3. Main Valve	11	2			12	10					1
4. Drinking Fountain	1	4			3	2					
5. Building Valves	5	2			7	5					
6. Man Holes											
7. Main Sprinkler Building Valve											
8. Non Freeze Hydrant						1					
9. Pumping Stations											
10. Pool Valve/Water Tap		1				2					
11. Curb Stop	5	7			4	3					
12. Curb Stop/Bldg. Valve											
13. Water Bowl											
14. Sprinklers							2				
15. Water Main Chamber											
16. Water Spray Post											
Gas											
1. Gas Valves	1										
2. Building Valve											
Sanitary/Storm											
1. Area Drains						4					
2. Clean Outs					3						
3. Catch Basins	22	27			25	30	16				2
4. Man Holes	27	13			40	48	12				8
5. Pool Drains											
6. Pumping Stations											
7. Catch Basin/Man Hole											
8. Floor Drain											
Electrical											
1. Electrical Panels											
2. Hydro Outlet		3									
3. Light Standards		14									
4. Hydro Vault (transformer)	2				3	5	19				
5. Transformer											
6. Electrical Man Holes										1	
7. Junction Boxes										7	
8. Elec. Post											

**SITE SERVICES COMPONENTS
QUANTITY TAKE-OFF**

	Area 24	Area 25
Water		
1. Fire Hydrant		
2. Gate Valves		
3. Main Valve		
4. Drinking Fountain		
5. Building Valves		
6. Man Holes		
7. Main Sprinkler Building Valve		
8. Non Freeze Hydrant		
9. Pumping Stations		
10. Pool Valve/Water Tap		
11. Curb Stop		
12. Curb Stop/Bldg. Valve		
13. Water Bowl		
14. Sprinklers		
15. Water Main Chamber	1	
16. Water Spray Post		
Gas		
1. Gas Valves		
2. Building Valve		
Sanitary/Storm		
1. Area Drains		
2. Clean Outs		
3. Catch Basins		
4. Man Holes		
5. Pool Drains		
6. Pumping Stations		
7. Catch Basin/Man Hole		
8. Floor Drain		
Electrical		
1. Electrical Panels		
2. Hydro Outlet		
3. Light Standards		
4. Hydro Vault (transformer)		
5. Transformer		
6. Electrical Man Holes		
7. Junction Boxes		
8. Elec. Post		



APPENDIX 15

**CITY OF SCARBOROUGH FIRE
PROTECTION WATER SERVICES
POLICY**



Thomas L. Powell, Fire Chief
Guidelines for Water Services for Fire Protection
February 26, 1992

E) Minimum size of water supply:

1. A single private hydrant only - 6" (150mm);
2. A single private hydrant and sprinklers and/or standpipes - 8" (200mm) to the hydrant or to the sprinklers/standpipe, 6" (150mm) to the rest. Alternatively hydraulic calculations proving the required water supply.
3. Two private hydrants - 8" (200mm). Alternatively hydraulic calculations proving the required water supply.
4. More than two private hydrants - 8" (200mm). Looped system required. (N.B. Main size may be reduced if hydraulic calculations are submitted proving the required water supply.)

Note: Scarborough Public Utilities Commission requirements for domestic water supply taken within building from same water service as the fire protection systems:

1. A 1" domestic supply may be taken from a 6" (150mm) service;
2. A 2" domestic supply may be taken from an 8" (200mm) service;
3. Alternatively hydraulic calculations proving the required water supply for both the fire protection system(s) and the domestic system.

S.P.U.C.

James C. Macdon
Director
Fire Prevention D

412-4526

JCM/vs

LOUIS MAGURNO

File #SP130992.J

292-1530 E.Y.T. 20 12

MARIO ZAMMIT 412-4527

RANDALL W. FRANKS 412-4537

