



REGION OF DURHAM WORKS DEPARTMENT

CATHODIC PROTECTION PROGRAM

(1983 – 2007)

2007 ANNUAL REPORT

Prepared by: Technical Support Division

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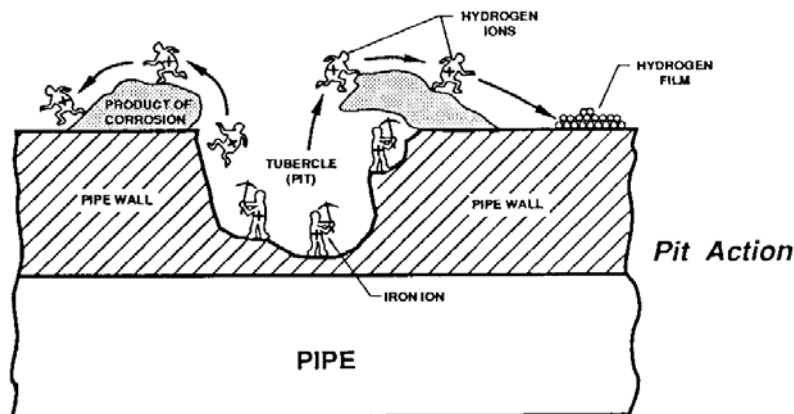
CATHODIC PROTECTION PROGRAMS (1983-2007)

1.0 INTRODUCTION

The purpose of this report is to inform Works Department personnel of the current status of the Region's program to reduce corrosion related watermain failures by the implementation of Cathodic Protection, as well as provide recommendations regarding the continuation of the program.

2.0 WATERMAIN CORROSION FUNDAMENTALS

Corrosion takes place when differences in electrical potentials are apparent between sections of the watermain, appurtenances, and soils. The differences in potentials produce an electrical current to be produced. This current is produced in the same way that a DC battery produces current (by sacrificing one metal to another). In the case of our water distribution system; the ductile/cast iron is sacrificed to itself or to copper connections, brass or bronze fittings, resulting in pinhole depressions in the ductile/cast pipe surface. Ultimately, these pin-holes develop until the pipe is perforated and a leak appears, as illustrated below.



There are three basic components to any corrosion cell, all of which need to be included in order for corrosion to take place, and are outlined briefly below:



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Electrolyte: A chemical substance or mixture, which allows electrons to migrate between an anode and cathode. Typically this mixture is a liquid, and in most cases of corrosion involving watermains within the Region, this substance is the soil in which the watermain and appurtenances are contained. The soil's moisture content determines how easily the electrons will be able to travel between the anode and the cathode, and therefore affect the rate of corrosion. The greater the moisture levels, the greater the ability for corrosion to take place.

Anode: The Anode is the material that “gives” electrons to the electrolyte solution (ie. Soil) and ultimately to the Cathode, and as a result is corroding. The Region's Cathodic Protection program installs a sacrificial anode, typically made of magnesium (other materials are available depending on required potentials). The magnesium possesses a higher electrical potential than all of the ferrous materials used in construction of watermains, and as a result will now begin to “give” its electrons to the cathode instead of the watermain and appurtenances, and will corrode instead of the ferrous material to which is it attached.

Cathode: The cathode is the material that “receives” electrons through the electrolyte solution from the anode. Cathodic protection does not alter any properties of the cathode, simply alters where the cathode obtains the additional electrons.

The severity and rate of corrosion of ferrous watermains and appurtenances is primarily dependent on the following factors, any of which can aid or hinder the corrosion process:

- Pipe wall thickness
- Soil Conditions (ie. Electrical resistivity, pH, sulphides, and moisture content)
- Surface area of appurtenances
- Relative surface area's of the anode and cathode
- Electrical potential of the anode, cathode, and electrolyte



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3.0 CATHODIC PROTECTION PROGRAMS

Cathodic protection is a temporary system, which utilizes sacrificial anodes to minimize the effects of external corrosion on existing ferrous watermains, thus reducing watermain breaks caused by corrosion and extending the useful life of the existing watermains.

In 1983 the Region of Durham completed a pilot program for the installation of Cathodic Protection on an existing ductile iron watermain, which serviced Jacwin Drive in Ajax. The positive results from this pilot program, initiated an annual Cathodic Protection Program, as well as several additional programs and standards pertaining to both the repair of existing ferrous and non-ferrous watermains and appurtenances, as well as new watermain installations within the Region of Durham, as illustrated in **Figures 2 and 3**.

3.1 Hot-Spot Program

The Hot-Spot protection program was initiated through the 1983 Cathodic Protection Program to investigate existing watermains which were being affected by external corrosion, and install cathodic protection as a temporary means of slowing the corrosive process on the watermains. This program was to be used as a maintenance tool to slow the deterioration of ferrous watermains throughout the Region of Durham, and allow for an increased level of service to be received from the existing watermains, as well as reduce the amount of emergency watermain repairs throughout the Region of Durham. Through research of watermain history, break data, and requests received from Regional Depot staff, the hot-spot protection program continues to provide a means of reducing the amount of emergency watermain repairs, and ultimately delaying the replacement of protected watermains throughout the Region of Durham without imposing service disruptions or high restoration costs, which are typically associated with the replacement of the watermains.



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3.2 Reactive Program

Based on the findings of the annual cathodic protection program (Hot-Spot Program), the Region of Durham adopted a reactive program to be included in all watermain break repairs. This program has become a service level standard throughout the Region of Durham, on both Regional and Non-Regional watermains within the Regional Municipality of Durham.

The reactive program is completed at all break locations where a ferrous watermain is excavated and repair work is carried out. Following the repair of the watermain, sacrificial anodes are installed on the watermains to protect the ferrous watermains and appurtenances within the Region each time they become accessible.

3.3 Non-Ferrous Watermains

Due to the high corrosion & failure rates associated with Ductile and Cast iron pipe, the Region of Durham issued a moratorium on the use of iron pipe on May 30, 1985. In its place, Polyvinyl Chloride pipe (PVC) for watermains less than 400mm in diameter is being used throughout the Region of Durham.

Although PVC pipe will not corrode, all appurtenances connected to the watermain are susceptible to corrosion, and therefore must be cathodically protected to ensure their durability, and increase the life expectancy of the ferrous appurtenances. This program includes the cathodic protection of all valves, hydrants, and fittings, which are installed within the Region of Durham, as well as the tracer wire, which is utilized to aid in locating the non-ferrous watermains.



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3.4 Proactive Program

In tandem with the annual Hot-Spot program, a proactive approach has also been initiated throughout the Region. Included in the annual cathodic protection program, are watermains that may not have a history of severe corrosion, or corrosive watermain breaks, but are located within areas where corrosion has negatively affected watermains in close proximity. These watermains are cathodically protected in the same manner as the hot-spot program to ensure that corrosion does not adversely affect the watermain, thus providing additional life expectancy to the existing watermains, and ensure that the rate of corrosion is slowed, and watermain replacement is further delayed.

3.5 Monitoring Program

There are two monitoring programs that have been established as part of the cathodic protection programs within the Region of Durham. These two programs have been established as a means of ensuring that the cathodic protection systems that have been installed continue to provide the levels of service and protection that they have been designed to give.

The monitoring programs measure the electrical potentials of the watermain, anodes, and the soil using a high impedance volt meter and a copper sulphate reference electrode. These potential readings are then examined to determine the amount of cathodic protection being produced on the watermain following installation, and are updated with readings obtained from a five-year program, which monitors all protected streets.

The annual monitoring program involves taking measurements both prior to and following installation of the cathodic protection system. The pre-installation survey is conducted prior to cathodic protection being installed on the intended watermain. This



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allows for a base line to be determined of the potentials experienced prior to protection, and ultimately the amount of corrosion that had been taking place. This information is then compared with the readings gathered during the post-installation survey to calculate the level of cathodic protection that has been installed on the watermain, as well as forecast the anode life expectancies and the life expectancy of the cathodic protection system that was installed.

This information is of great importance in determining estimated life expectancies, but requires potential reading updates, to ensure the cathodic protection systems continues to operate satisfactorily. These updates are available from a monitoring program that is currently on a five-year cycle.

This monitoring program is responsible for providing potential readings for the entire inventory of cathodically protected systems, as well as prepares a list of deficiencies that may be apparent. The next survey is scheduled to coincide with the 2011 annual cathodic protection program.

4.0 FACTORS CONTRIBUTING TO CORROSION

Corrosion of our water distribution system is a continuous problem that is prevalent in all areas within the Region of Durham. There are many factors contributing to the corrosion of existing ductile and cast iron watermains, which may include one, or more commonly a combination of the following: dissimilar metals, dissimilar soils, differential aeration of soil, road de-icing salts, stress corrosion, bacteria, neutral cables installed by electrical utilities and stray electrical currents (from other cathodically protected structures i.e. service station gas tanks).

Although the above causes of corrosion can take place in almost any environment, the three following sources of corrosion are the main sources of corrosion found within the Region of

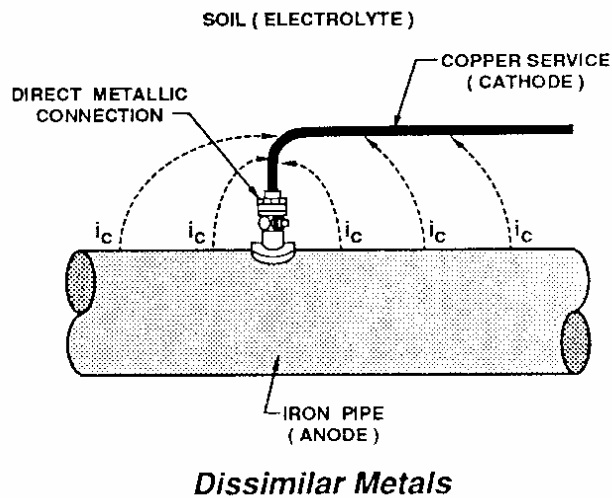


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Durham, and are illustrated below.

4.1 Dissimilar Metals

Corrosion from dissimilar metals occurs when differing metals are in contact with each other and possess differing electrical potentials. (ie. Copper Services in contact with a ferrous watermain)



4.2 Dissimilar Soils

Similar to the effects caused by dissimilar metals as above, dissimilar soils can also be attributed to corrosion of watermains within the Region. Corrosion caused by dissimilar soils has been reduced because of improvements of backfilling standards for watermain construction. These standards ensure that the same granular backfill is utilized for the entire area surrounding the watermain, thus minimizing the chance for corrosion from dissimilar soils to occur.

However, in older watermain installations the backfilling material was not always

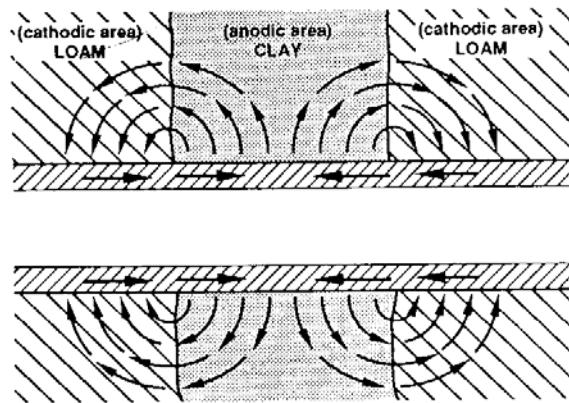


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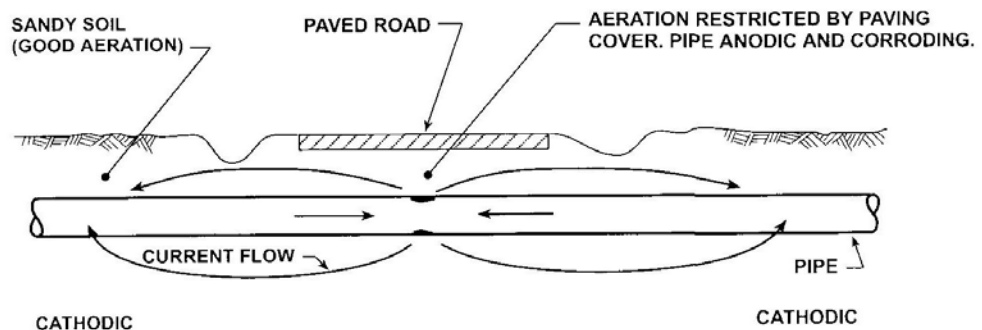
uniform throughout the installation, and as a result corrosion from dissimilar soils may be more apparent in installations of ductile and cast iron watermains.



Corrosion caused by Dissimilar Soils

4.3 Differential Aeration

Differential aeration corrosion takes place in any location where oxygen levels are restricted. Typically this type of corrosion can be found on watermains and appurtenances that are located at roadway crossings, or are constructed under roadways. Since the roadway hinders the flow of oxygen (aeration) of the soil surrounding the watermain which is located beneath it, this area of watermain will corrode at a increased rate then a watermain, or connecting section of watermain which does not have a reduced level of oxygen (soil aeration).

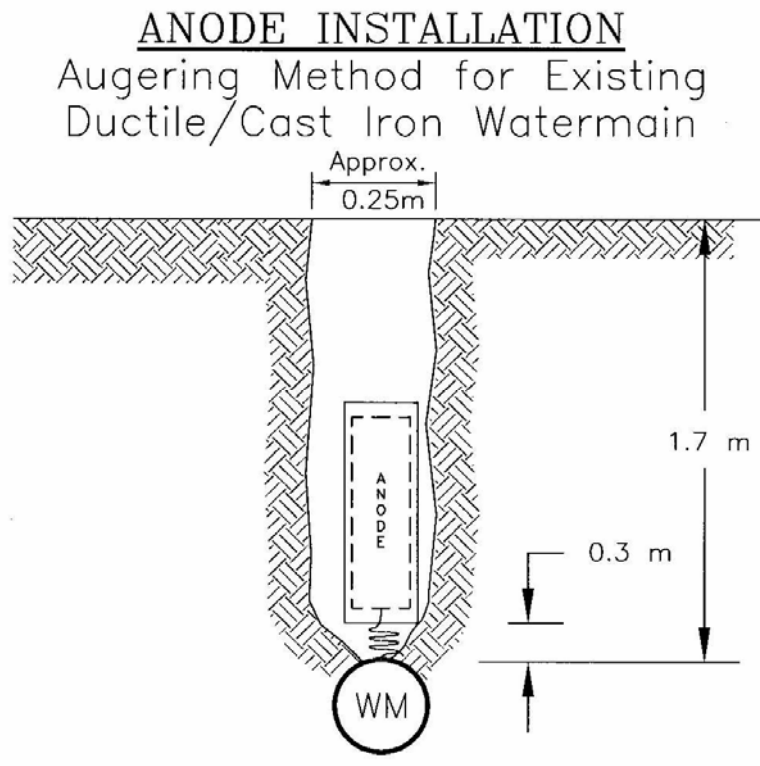




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5.0 CATHODIC PROTECTION INSTALLATION

Cathodic protection consists of installing sacrificial anodes (magnesium or zinc) underground, ideally at watermain depth and connecting them to the watermains by insulated copper wires, as illustrated below.

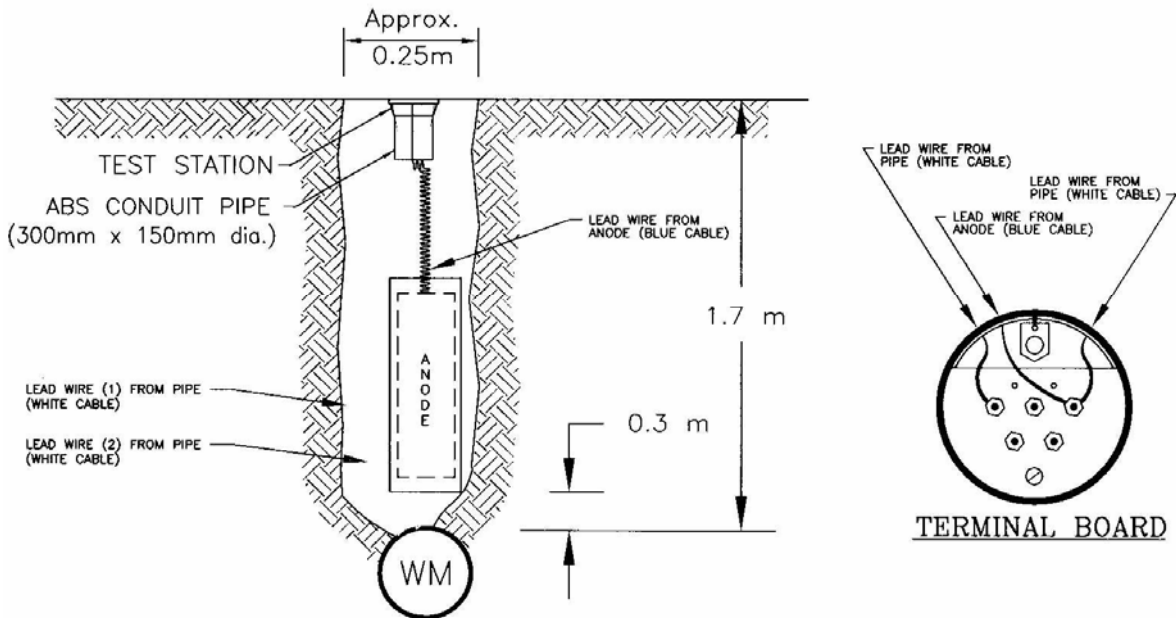


The anodes can also be attached to above ground test stations so that the effectiveness of the installed cathodic protection system can be measured easily following the installation, illustrated below. The basis of cathodic protection is such that the attached anode will corrode instead of the watermain or appurtenance to which it is connected, as outlined previously.



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FLUSH MOUNT TEST STATION DESIGN



N.T.S.

To achieve adequate protection on a watermain, installation of several anodes along the pipe is necessary. Each anode is effective over a relatively short range of pipe length, and is dependent on the condition of the pipe, pipe size (surface area), soil resistivity and strength of stray electric ground currents. As a result, a cathodic protection system can be designed to extend the life of existing watermains by ten to twenty years at a fraction of the replacement cost. Since the installation costs of a cathodic protection system is so cost effective, it allows for cathodic protection systems to be replaced, years after the initial installation and still provide an excellent means of maintaining the existing water distribution system without having service interruptions, or replacing the watermains.

The installation of the anodes on the intended watermain under the annual hot-spot and proactive cathodic protection programs is typically achieved in three main steps, which results in minimal required restoration. The steps are dependent on several aspects such as, material cover above the



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watermain (ie. Soil, asphalt, concrete), depth of watermain, type of excavation, and whether the installation of a test station will be required. However, the basic installation process is outlined below.:

1. Excavation:

A small diameter circle of the existing sod is removed from the area to be excavated (typically 12” diameter) and is placed near the expected excavation. A hole is then augered or vacuum excavated, to the top of the watermain to be protected. Vacuum excavation is used in areas where utility conflicts are apparent or unknown to eliminate the chance of damage occurring to the nearby utilities.



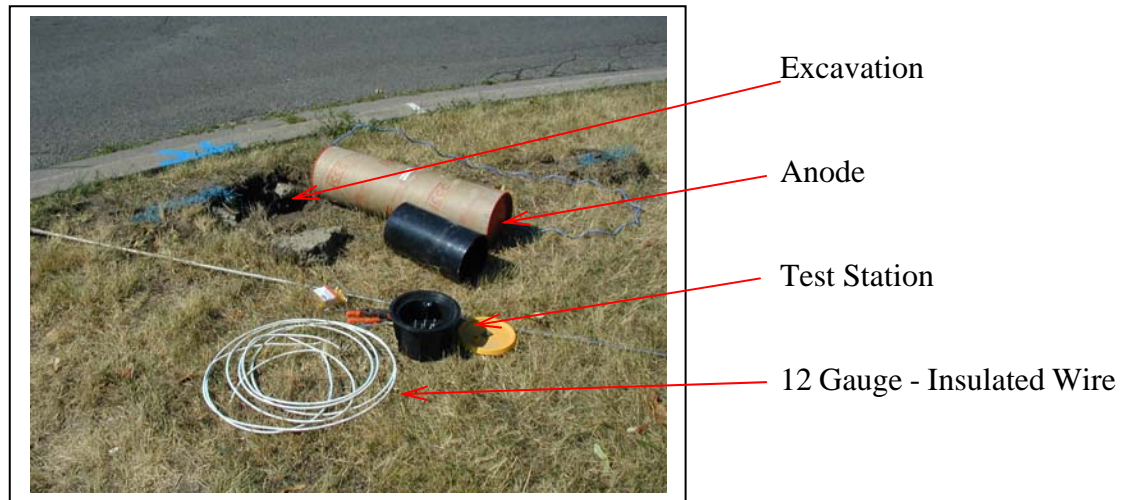
Auger Excavation



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2. Installation:

A 14.5Kg magnesium anode is cad welded to the watermain pipe. The anode is manufactured with a length of insulated 12 gauge copper wire, attached at each end to the magnesium block and a silver solder stud. The magnesium block is encased in a package that both protects the magnesium, and improve the ability to hold moisture, which ultimately improves the ability of electrical current to take place. Typical components of anode installation are illustrated below.



The silver solder stud is then cad welded to the watermain with the use of a portable welding system, which incorporates the use of a diesel generator and extended welding rods, as illustrated below. Once the anode is welded to the pipe surface, it is lowered into the excavation and has begun to protect the watermain from corrosion.





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This cad welding system is the primary contributing factor to the cost effectiveness of the cathodic protection program, and allows for 35-50 anodes to be installed per day during the cathodic protection program, which is typically enough anodes to adequately protect an entire watermain which services a residential street. Illustrated below is the typical process involved with the installation of cathodic protection on a residential street.



1. Excavation

2. Welding

3. Backfilling/
Restoration

3. **Backfilling/Restoration:**

If the excavation is augered, the native material that was excavated is used as the backfill material, and standard backfilling compaction requirements are followed. Once the excavation is backfilled the sod “cap” that was initially removed is reinstated, and any excess soil is removed from site, leaving the disturbed area in the same condition as found previous to anode installation.



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The same process is used if the watermain was vacuum excavated, with the only major difference being the backfilling material. Since the excavated material is no longer available to be utilized for backfilling, sand backfill is used, and standard compacting requirements are followed to ensure that a depression will not be produced in the surrounding area over time. All other aspects of the restoration remain the same as described above, ensuring that the disturbed areas are returned to their original state.

6.0 COST EFFECTIVENESS

The cost effectiveness of the annual Cathodic Protection program can be examined by both the benefits of reducing the amount of corrosive breaks on ferrous watermains, as well as the cost benefits associated with extending the life expectancy of the watermains and appurtenances.

To better illustrate the cost effectiveness of the Cathodic Programs, the following outlines the watermain replacement cost, and the watermain break costs had cathodic protection not been installed.

6.1 Replacement Cost

If the watermains had been left unprotected and continued to corrode at the rate being experienced, total replacement of the mains would be necessary at a large capital cost. The cost to replace all watermains that are now cathodically protected is estimated at \$172,700,000, as outlined in **Table 7** (based on 2007 Unit Prices for Budget Estimates). If this replacement can be delayed or avoided, a greater return can be achieved on the Region's investment.

Alternatively the total approximate costs which have been utilized to cathodically protect watermains throughout the Region between 1983 and 2007 have been \$5,680,200, or less than 4% of the costs to replace the watermains. This low percentage shows how in some



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cases it remains to be more cost effective to replace the existing cathodic protection system rather than replace the watermains, thus allowing a further extension of the life expectancy of the watermain.

6.2 Break Costs

Since it is not possible to accurately predict the exact number of corrosion breaks, which may have occurred on protected streets had they not been protected, two estimates were established for the corrosion breaks, which may have occurred had cathodic protection not been installed. These estimates were achieved by graphing trend lines based on the actual break totals experienced for cathodically protected streets, as shown in **Figure 1**.

Figure 1 clearly illustrates that the introduction of Cathodic Protection in 1983 has drastically reduced the frequency of corrosive breaks on protected watermains.

A conservative estimate of 2,700 corrosive watermain breaks was achieved assuming that the state of corrosion would neither increase or decrease over time. Likewise a non-conservative estimate estimated approximately 4,100 corrosive watermain breaks could have occurred on these protected streets had protection not been installed. This non-conservative approach is felt to be a more accurate estimate of possible corrosion breaks, as the rate of corrosion would have been compounded and increased over time.

Tables 5 & 6 illustrate the total costs both actual and estimated for the repair of all breaks, which have occurred on watermains where cathodic protection has been installed. These tables show that the 1,319 corrosive breaks which have occurred on protected streets since 1983, have cost approximately \$3.8 Million to repair.

The estimated cost to repair the corrosive watermain breaks on these same streets, since 1983 had protection not been installed, could have totalled an additional \$5.5 Million (Conservative Estimates), and \$11.3 Million (Non-Conservative Estimate).



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7.0 CATHODIC PROTECTION PROGRAM SUMMARY

The attached **Tables 1, 2, 3, & 4** summarize the locations in the Region where cathodic protection has been installed since 1983. **Tables 1, 2, 3, & 4** respectively outline the inventories of cathodically protected streets by Town, Program Year, streets that have been reconstructed, and streets that have been reprotected.

A total of 207.8 km of watermain, consisting of 139.2 km of ductile iron and 68.6 km of cast iron, have been cathodically protected with 17,861 anodes and 1,385 test stations. Of these total lengths 10 km of Ductile Iron and 1 km of Cast Iron watermains have been reconstructed. The locations, which have been reconstructed are highlighted in **Table 1, 2, & 3**, however they are the only streets outlined in **Table 3**.

The total cost of the Cathodic Protection programs since 1983 has been approximately \$5.68 million, this total includes all engineering costs and construction costs.

Appendix 1 contains graphs of the total break summaries and program totals for each program year.

8.0 RECOMMENDATIONS

The maintenance of our water distribution system and plants ensures that our high quality standards of product and service to the public are maintained. Based on our continual preventive maintenance program it can be concluded that Cathodic Protection is a very successful, reliable and cost effective method of minimizing the effects of external corrosion thus, extending the life expectancy of those watermains. Consumers can be assured that our potable water distribution system is safe and reliable with minimum inconvenience of water shut-offs and roadwork resulting from watermain breaks.



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Based on the findings of this report, it is recommended that the Cathodic Protection Programs be continued within the Region of Durham.

As a result of the increasing totals of protection of both the proactive program and the hot-spot program's within the Region, it is recommended that the potential surveys currently being conducted on a five-year cycle be reduced to a 3-year cycle. The information gathered in these surveys is of great importance with regards to the maintenance of the existing cathodic protection systems, and will allow for an increase in the accuracy of the data available for monitoring and designing cathodic protection systems.

These surveys typically cost approximately 10% of the annual cathodic protection program and will ensure that any deficiencies within the system are found and corrected more efficiently.

In addition to increasing the levels of service regarding the potential survey's, a more in depth analysis of annual costs increases should be completed to ensure that the program will continue to include both a pro-active and re-active program, rather than a strictly re-active program, which will occur if the annual cost increases are not monitored and adjusted with regards to the budgeted totals.

The value of the cathodic protection program is among the most notable within the Region of Durham, and is recommended that it be continued and expanded within the coming years.

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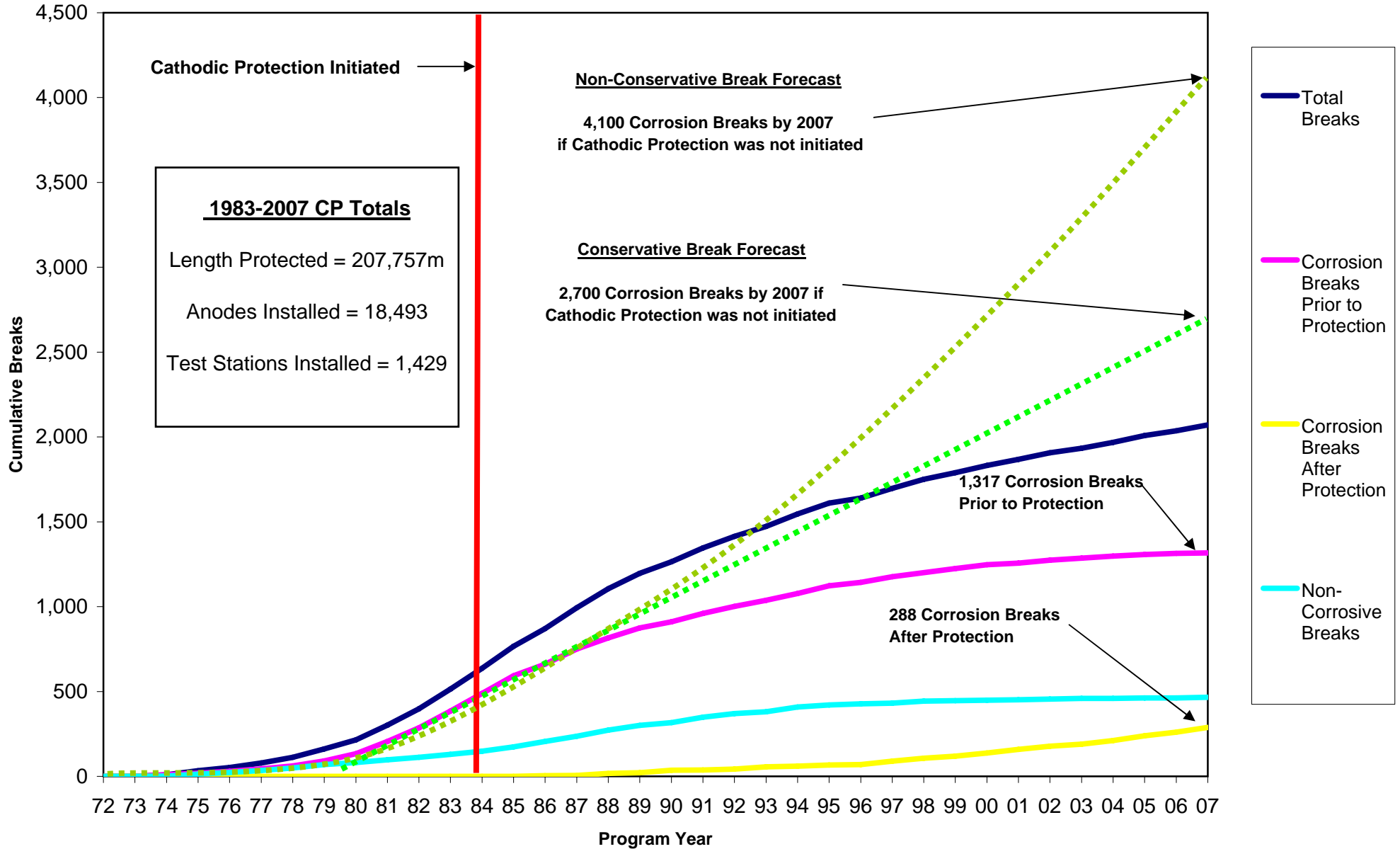


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FIGURE 1

BREAK SUMMARY FOR ALL CATHODICALLY PROTECTED WATERMAINS (1983-2007)

Break Summary For All Cathodically Protected Watermains (1972-2007)

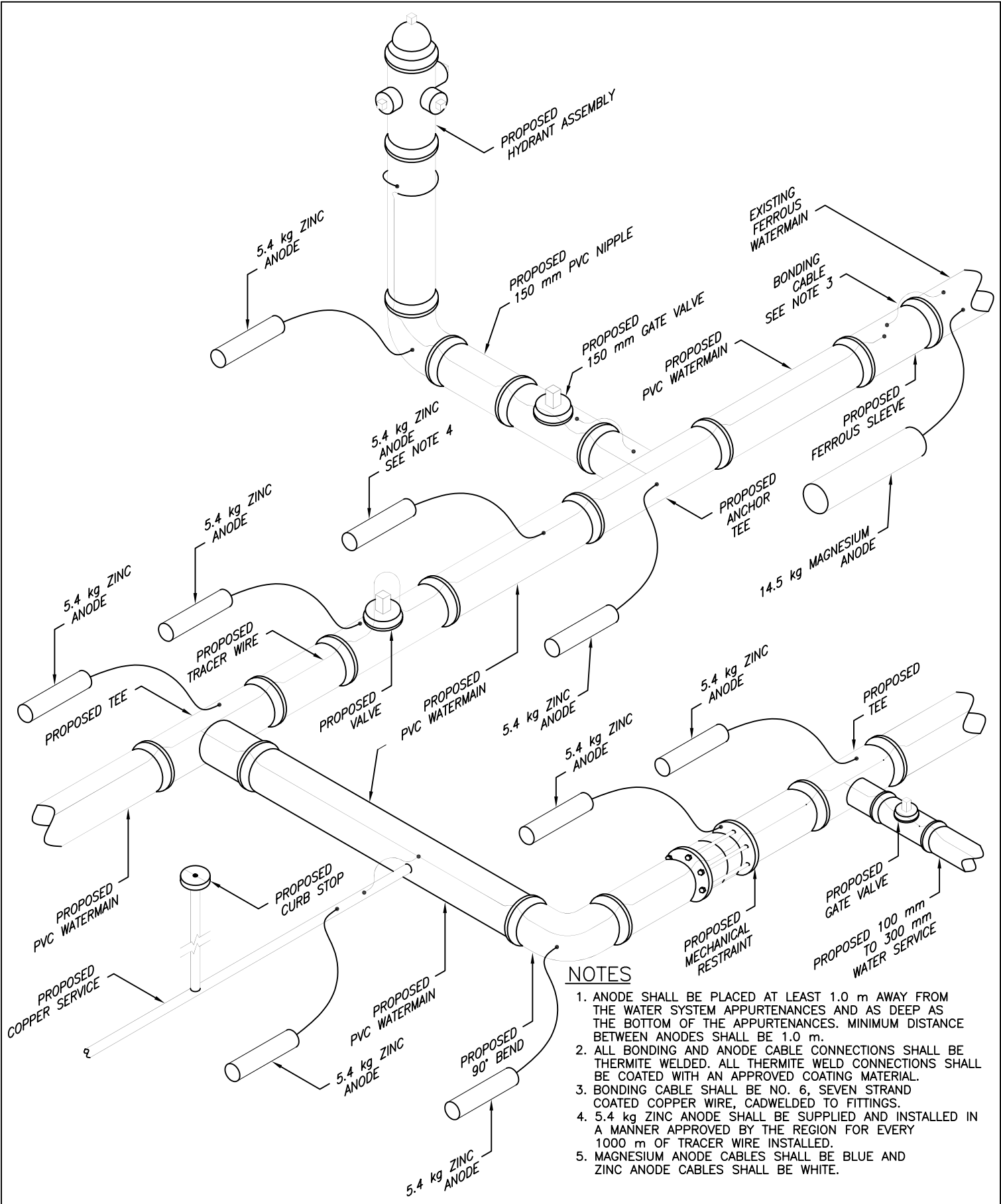




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FIGURE 2

REGION OF DURHAM STANDARD DRAWING FOR CATHODIC PROTECTION
INSTALLATION FOR PVC & CPP WATERMAIN SYSTEMS



NOTES

1. ANODE SHALL BE PLACED AT LEAST 1.0 m AWAY FROM THE WATER SYSTEM APPURTENANCES AND AS DEEP AS THE BOTTOM OF THE APPURTENANCES. MINIMUM DISTANCE BETWEEN ANODES SHALL BE 1.0 m.
2. ALL BONDING AND ANODE CABLE CONNECTIONS SHALL BE THERMITE WELDED. ALL THERMITE WELD CONNECTIONS SHALL BE COATED WITH AN APPROVED COATING MATERIAL.
3. BONDING CABLE SHALL BE NO. 6, SEVEN STRAND COATED COPPER WIRE, CADWELDED TO FITTINGS.
4. 5.4 kg ZINC ANODE SHALL BE SUPPLIED AND INSTALLED IN A MANNER APPROVED BY THE REGION FOR EVERY 1000 m OF TRACER WIRE INSTALLED.
5. MAGNESIUM ANODE CABLES SHALL BE BLUE AND ZINC ANODE CABLES SHALL BE WHITE.

ALL DIMENSIONS IN MILLIMETRES EXCEPT WHERE NOTED.



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CATHODIC PROTECTION / BONDING
CABLE / TRACER WIRE
FOR PVC AND CPP WATERMAIN SYSTEMS

DWG. DATE:	1981 04
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REV. DATE:	2002 10
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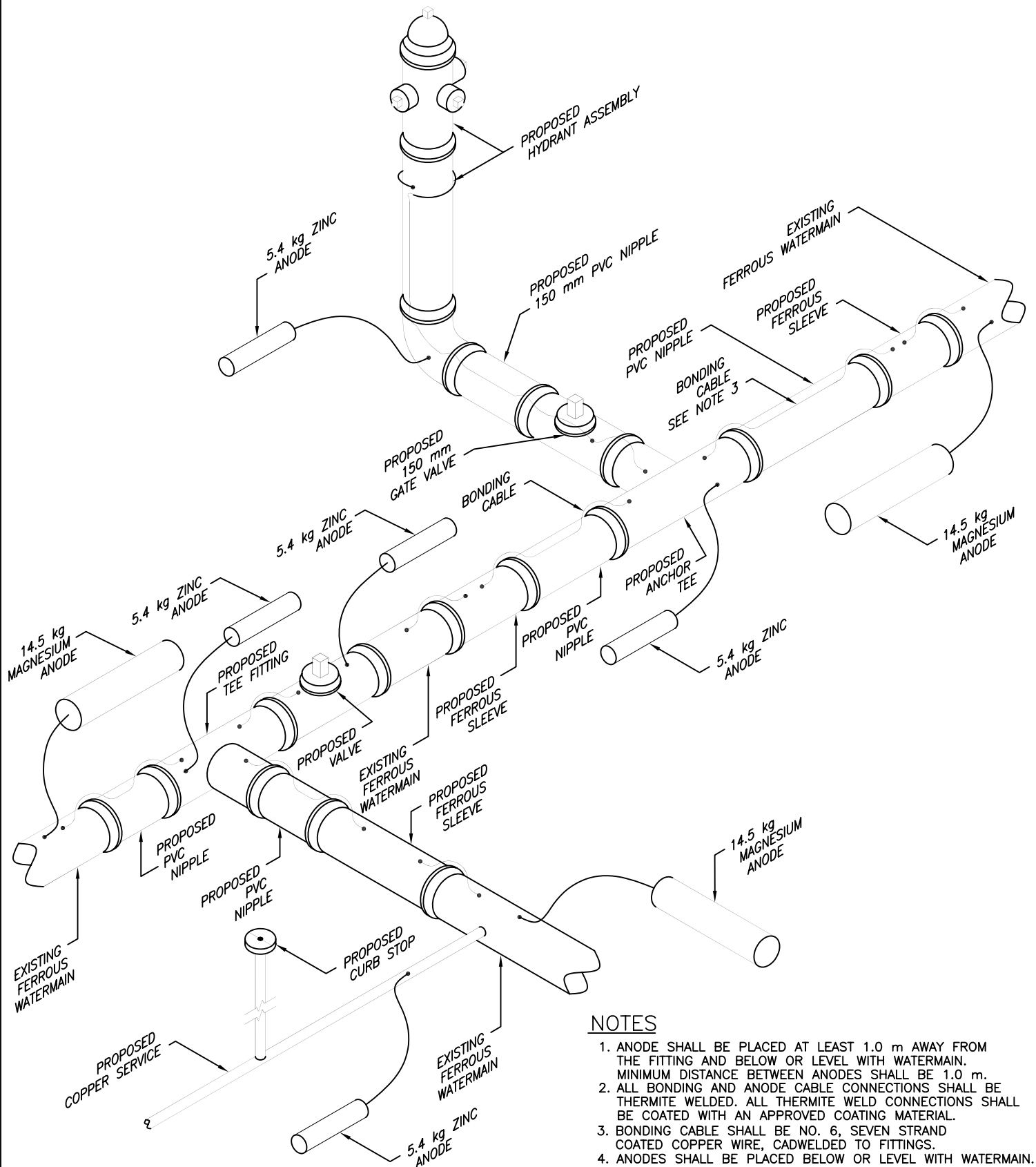
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FIGURE 3

REGION OF DURHAM STANDARD DRAWING FOR CATHODIC PROTECTION
INSTALLATION FOR EXISTING FERROUS WATERMAIN SYSTEMS



NOTES

1. ANODE SHALL BE PLACED AT LEAST 1.0 m AWAY FROM THE FITTING AND BELOW OR LEVEL WITH WATERMAIN. MINIMUM DISTANCE BETWEEN ANODES SHALL BE 1.0 m.
2. ALL BONDING AND ANODE CABLE CONNECTIONS SHALL BE THERMITE WELDED. ALL THERMITE WELD CONNECTIONS SHALL BE COATED WITH AN APPROVED COATING MATERIAL.
3. BONDING CABLE SHALL BE NO. 6, SEVEN STRAND COATED COPPER WIRE, CADWELDED TO FITTINGS.
4. ANODES SHALL BE PLACED BELOW OR LEVEL WITH WATERMAIN.
5. MAGNESIUM ANODE CABLES SHALL BE BLUE AND ZINC ANODE CABLES SHALL BE WHITE.

ALL DIMENSIONS IN MILLIMETRES EXCEPT WHERE NOTED.



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CATHODIC PROTECTION / BONDING CABLE
FOR EXISTING FERROUS WATERMAIN SYSTEMS

DWG. DATE:	1991 11
REVISION NO.:	5
REV. DATE:	2002 10
SCALE:	N.T.S.

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TABLE 1

CATHODIC PROTECTION INVENTORY–BY TOWN

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December 2007



YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1983	AJAX	JACWIN DR	CARWIN CR	CLARELYN BLVD	170	150	PVC (D.I.)	1968	1983		16	1
1985	AJAX	LEWIN CR	THE LAKE DRIVEWAY E	McCLARNAN RD	435	150	D.I.	1973	1985	2005	32	3
1986	AJAX	CARWIN CR	MILL ST	MARWIN RD	360	150	PVC (D.I.)	1968	1986		24	3
1986	AJAX	CLARELYN BLVD	JACWIN DR	MILL ST	205	150	PVC (D.I.)	1968	1986		15	1
1986	AJAX	COWLING CR	THE LAKE DRIVEWAY E	LAWRIE RD	385	150	D.I.	1970	1986	2005	28	3
1986	AJAX	ETHLYN CT	CLARELYN BLVD	END OF CT (S/L)	42	150	PVC (D.I.)	1968	1986		4	1
1986	AJAX	JALLAN DR	JACWIN DR	CARWIN CR	245	150	PVC (D.I.)	1968	1986		17	1
1986	AJAX	LAWRIE RD	THE LAKE DRIVEWAY E	CLOVER RIDGE DR E	370	150	D.I.	1970	1986	2005	24	3
1986	AJAX	MARWIN RD	130m N. OF JACWIN DR	END OF RD (N/L)	160	150	PVC (D.I.)	1972	1986		11	1
1986	AJAX	MARWIN RD	JACWIN DR	130m N. OF JACWIN DR	130	150	D.I.	1970	1986		11	1
1986	AJAX	McCLARNAN RD	THE LAKE DRIVEWAY E	CLOVER RIDGE DR E	410	150	D.I.	1970	1986		28	3
1987	AJAX	ARCHER DR	N/L @ BRYANT RD	S/L @ BRYANT RD	370	150	D.I.	1968	1987		26	2
1987	AJAX	CLARK RD	CLOVER RIDGE DR E	GREGORY RD	437	200	D.I.	1972	1987		29	3
1987	AJAX	DREYER DR W	PICKERING BEACH RD	LAMBARD CR (W/L)	650	150	D.I.	1969	1987		30	4
1987	AJAX	GREGORY RD	CLOVER RIDGE DR E	CLARK RD	1,037	150	C.I.	1969	1987		63	5
1987	AJAX	HARWOOD AVE	EMPEROR ST	CLEMENTS RD	340	300	D.I.	1970	1987		36	3
1987	AJAX	HARWOOD AVE	HARWOOD AVE	148m W. ON HOSPITAL FIRE LINE	148	150	D.I.	1970	1987		7	1
1988	AJAX	BAKER RD	DREYER DR E	CLEMENTS DR E	420	150	D.I.	1969	1988		29	3
1988	AJAX	CALLEN CT	CRAWFORD DR	END OF CT (N/L)	80	150	D.I.	1969	1988		6	0
1988	AJAX	CRAWFORD DR	CLOVER RIDGE DR E	400mm EASEMENT	340	400	D.I.	1969	1988		46	2
1988	AJAX	CRAWFORD DR	GREGORY RD	400mm EASEMENT	440	150	D.I.	1969	1988		28	2
1988	AJAX	DORLING AVE	CLOVER RIDGE DR E	HARLAND CR	85	150	D.I.	1970	1988		5	1
1988	AJAX	HARLAND CR	DREYER DR W	END OF CR	700	150	D.I.	1970	1988		54	3
1989	AJAX	CLOVER RIDGE DR E	CRAWFORD DR	DREYER DR W	600	200	D.I.	1970	1989		49	7
1989	AJAX	CLOVER RIDGE DR E	HARWOOD AVE	CRAWFORD DR	500	300	D.I.	1970	1989	2005	48	3
1989	AJAX	HILLS RD	CLEMENTS RD	GAMON ST	500	150	D.I.	1969	1989		35	1
1989	AJAX	THE LAKE DRIVEWAY E	HARWOOD AVE	LEWIN CR	500	150	PVC (D.I.)	1999	1989		35	3
1989	AJAX	THE LAKE DRIVEWAY E	LEWIN CR	McCLARNAN RD	125	450	AC (D.I.)	1995	1989		18	1
1990	AJAX	AGATE RD	RANDS RD	SLATER CR S/L	300	150	D.I.	1975	1990		21	2
1990	AJAX	BANNER CR	RANDS RD	FINLEY AVE	410	150	D.I.	1975	1990		27	4
1990	AJAX	EASTON CT	RANDS RD	END OF CT (S/L)	240	150	D.I.	1975	1990		11	2
1990	AJAX	RANDS RD	FINLEY AVE	HARBORD CR	715	150	D.I.	1975	1990		38	4
1990	AJAX	SLATER CR	RANDS RD	N/L @ AGATE RD	780	150	D.I.	1975	1990		55	5
1990	AJAX	SWANSTON CR	W/L @ RANDS RD	E/L @ RANDS RD	680	150	D.I.	1975	1990		46	5
1991	AJAX	BOLLAND CR	N/L @ CLOVER RIDGE DR W	S/L @ CLOVER RIDGE DR W	807	150	D.I.	1974	1991	2005	71	6
1991	AJAX	BURNINGHAM CR	W/L @ LINCOLN ST	E/L @ LINCOLN ST	400	150	PVC (D.I.)	1972	1991		23	3
1991	AJAX	CLOVER RIDGE DR W	BOLLAND CR (N/L)	HARWOOD AVE	460	300	D.I.	1973	1991	2005	19	2
1991	AJAX	CLOVER RIDGE DR W	BOLLAND CR (N/L)	THE THE LAKE DRIVEWAY E	190	250	D.I.	1973	1991		50	3
1991	AJAX	DANTON CT	CLOVER RIDGE DR W	END OF CT (N/L)	217	150	D.I.	1974	1991		14	2
1991	AJAX	DINGLEY CT	LINCOLN ST	END OF CT (N/L)	100	150	PVC (D.I.)	1972	1991		7	1
1991	AJAX	HARWOOD AVE	DREYER DR W	CLEMENTS RD E	420	400	D.I.	1973	1991	2005	52	3
1991	AJAX	HARWOOD AVE	EMPEROR ST	FALBY CT	300	300	D.I.	1973	1991		22	2
1991	AJAX	SIMPSON AVE	EMPEROR ST	CLEMENTS RD E	236	150	D.I.	1961	1991		18	2
1993	AJAX	ALBERY CR	N/L @ BRYANT RD	400mm EASEMENT ON ALBERY CR	100	150	C.I.	1968	1993		9	1

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YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1993	AJAX	ALBERY CR	N/L OF 400mm EASEMENT	S/L OF 400mm EASEMENT	310	400	C.I.	1968	1993		37	2
1993	AJAX	ALBERY CR	S/L @ BRYANT RD	400mm EASEMENT ON ALBERY CR	120	150	C.I.	1968	1993		9	1
1993	AJAX	BRYANT RD	W/L @ CLOVER RIDGE DR E	E/L @ CLOVER RIDGE DR E	1,000	150	D.I.	1968	1993		75	6
1993	AJAX	BURRELLS RD	CLEMENTS RD E	STRATHY RD	450	150	C.I.	1966	1993		22	3
1993	AJAX	CLEMENTS RD E	125m E. OF HARWOOD AVE	BURRELLS RD	90	150	C.I.	1966	1993		7	0
1993	AJAX	CLEMENTS RD E	HARWOOD AVE	125m E. OF HARWOOD AVE	125	150	D.I.	1969	1993		10	1
1993	AJAX	CLEMENTS RD E	SIMPSON RD	BURCHER RD	180	250	C.I.	1960	1993		15	1
1993	AJAX	STRATHY RD	DREYER DR W	BURRELLS RD	495	150	C.I.	1960	1993		35	3
1995	AJAX	CLEMENTS RD E	DREYER DR	BURCHER RD	960	150	C.I.	1960	1995		80	7
1995	AJAX	FINLEY AVE	WESTNEY RD	THE LAKE DRIVEWAY E	1,325	300	D.I.	1974	1995		142	9
1995	AJAX	GIBSON CT	CLEMENTS RD E	END OF CT (S/L)	115	150	C.I.	1968	1995		10	1
1995	AJAX	O'DELL CT	TURNBULL RD	END OF CT (S/L)	140	150	D.I.	1966	1995		16	2
1995	AJAX	PARSONS RD	CLEMENTS RD E	TURNBULL RD	75	150	D.I.	1966	1995		9	1
1995	AJAX	PRESTON CT	CLEMENTS RD E	55m W. OF CLEMENTS RD E	55	150	C.I.	1966	1995		8	1
1996	AJAX	HURLEY RD	BURCHER RD	TULLOCH DR	390	150	C.I.	1956	1996		25	3
1996	AJAX	PICKERING BEACH RD	FOORD RD	350m S. OF FOORD RD	350	150	D.I.	1973	1996		29	2
1996	AJAX	SHERWOOD RD	CHURCH ST	END OF RD (E/L)	420	150	C.I.	1968	1996		27	3
1996	AJAX	TAYLOR RD	CLEMENTS RD E	N/L @ TURNBULL RD	580	150	D.I.	1966	1996		42	4
1996	AJAX	TULLOCH DR	EMPEROR ST	E/L @ TULLOCH DR	1,040	150	C.I.	1956	1996		65	7
1997	AJAX	BROOKS RD	GEORGINA DR	MILL ST	80	200	C.I.	1969	1997		8	1
1997	AJAX	GEORGINA DR	LINCOLN ST	HILEY AVE	425	150	C.I.	1969	1997		40	3
1998	AJAX	LAMBARD CR	DREYER DR W	DREYER DR W	375	150	C.I.	1968	1998		32	3
1998	AJAX	RANDALL DR	KINGSTON RD	CHURCH ST S	380	200	D.I.	1978	1998		29	3
2000	AJAX	ANSTEAD CR	W/L @ THE LAKE DRIVEWAY E	E/L @ THE LAKE DRIVEWAY E	825	150	D.I.	1979	2000		72	5
2000	AJAX	BROOKSBANK CR	N/L @ FINLEY AVE	S/L @ FINLEY AVE	460	150	D.I.	1977	2000		35	3
2000	AJAX	CADBY RD	THE LAKE DRIVEWAY E	ANSTEAD CR	300	150	D.I.	1977	2000		28	3
2000	AJAX	MILL ST	KINGSTON RD	HILEY AVE	855	200	C.I.	1960	2000		58	5
2000	AJAX	PANTER CR	N/L @ FINLEY AVE	S/L @ FINLEY AVE	855	150	D.I.	1978	2000		68	5
2005	AJAX	BOLLAND CR.	CLOVER RIDGE DR.	CLOVER RIDGE DR.	820	250	D.I.	1968	1991	2005	88	5
2005	AJAX	CLOVER RIDGE DR E	HARWOOD AVE	McCLARNAN RD	375	300	D.I.	1968	1989	2005	41	3
2005	AJAX	CLOVER RIDGE DR W	BOLLAND CR (N/L)	HARWOOD AVE	435	300	D.I.	1973	1991	2005	58	4
2005	AJAX	COWLING CR	THE LAKE DRIVEWAY E	LAWRIE RD	400	150	D.I.	1970	1986	2005	36	2
2005	AJAX	HARWOOD AVE	DREYER DR W	CLEMENTS RD E	375	400	D.I.	1973	1991	2005	48	2
2005	AJAX	LAWRIE RD	THE LAKE DRIVEWAY E	CLOVER RIDGE DR E	375	150	D.I.	1970	1986	2005	33	2
2005	AJAX	LEWIN CR	THE LAKE DRIVEWAY E	McCLARNAN RD	450	150	D.I.	1973	1985	2005	35	3
2006	AJAX	FAIRALL ST	DOWTY RD	MCMASTER AVE	530	150	D.I.	1975	2006		46	4
2006	AJAX	FAIRALL ST	MCMASTER AVE	WESTNEY RD S	280	200	D.I.	1975	2006		27	2
2006	AJAX	WESTNEY RD	HARWOOD AVE	RANDS RD	240	150	D.I.	1975	2006		21	2
2006	AJAX	WESTNEY RD	RANDS RD	FINLEY AVE	655	300	D.I.	1975	2006		86	4
Ajax Totals					34,249						2789	233
2001	BEAVERTON	VICTORIA ST	MORRISON AVE	WELLINGTON ST	30	150	D.I.	1979	2001		4	0
2001	BEAVERTON	WELLINGTON ST	VICTORIA ST	END OF ST (S/L)	155	150	D.I.	1979	2001		16	1
Beaverton Totals					185						20	1

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	Reconstructed Streets
	Reprotected Streets

YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1987	BOWMANVILLE	OLD HWY #2	WAVERLY RD	CHAPEL ST	100	150	D.I.	1969	1987		15	1
1987	BOWMANVILLE	WAVERLY RD	COLEMAN ST	LAWRENCE CR	510	300	D.I.	1972	1987		60	4
1987	BOWMANVILLE	WAVERLY RD	OLD HWY #2	COLEMAN ST	125	150	C.I.	1972	1987		15	1
1987	BOWMANVILLE	WAVERLY RD	BASELINE RD W	SPRY AVE	370	300	D.I.	1972	1987		46	1
1990	BOWMANVILLE	HOBBS DR	N/L @ SIMPSON RD	DEERPARK CR (N/L)	495	300	D.I.	1974	1990		71	4
1991	BOWMANVILLE	ASHDALE CR	W/L @ HOBBS DR	E/L @ HOBBS DR	307	150	D.I.	1974	1991		22	2
1991	BOWMANVILLE	DEERPARK CR	N/L @ HOBBS DR	S/L @ HOBBS DR	510	150	D.I.	1974	1991		32	3
1991	BOWMANVILLE	HAILEY CT	HOBBS DR	END OF CT (E/L)	40	150	D.I.	1979	1991		3	1
1991	BOWMANVILLE	HOBBS DR	S/L @ SIMPSON RD	DEERPARK CR (N/L)	415	300	D.I.	1974	1991		38	2
1991	BOWMANVILLE	MORGANDALE CR	W/L @ HOBBS DR	E/L @ HOBBS DR	250	150	D.I.	1974	1991		8	2
1991	BOWMANVILLE	WILDE CT	HOBBS DR	END OF CT (E/L)	30	150	D.I.	1979	1991		2	1
1992	BOWMANVILLE	BASELINE RD	WAVERLY RD	400m W. OF WAVERLY RD	800	300	D.I.	1970	1992	2005	103	6
1992	BOWMANVILLE	MARTIN RD	BASELINE RD	PRESTONWAY DR	685	200	PVC (D.I.)	1986	1992		52	5
1993	BOWMANVILLE	CARRUTHERS DR	W/L @ LOSCOMBE DR	E/L @ LOSCOMBE DR	325	150	D.I.	1973	1993		24	3
1993	BOWMANVILLE	HETHERINGTON DR	N/L @ LAWRENCE CR	END OF DR (S/L)	430	150	D.I.	1973	1993	2003	33	3
1993	BOWMANVILLE	LITTLE AVE	COLE AVE	END OF AVE (N/L)	520	150	D.I.	1973	1993		36	3
1993	BOWMANVILLE	QUINN DR	LAWRENCE CR	125m W. OF LAWRENCE CR	125	150	D.I.	1973	1993	2003	8	1
1993	BOWMANVILLE	WEST BEACH RD	PORT DARLINGTON RD	END OF RD (W/L)	180	250	D.I.	1969	1993		16	1
2000	BOWMANVILLE	ALONNA ST	MARTIN RD	150mm EASEMENT ON ALONNA ST	150	150	PVC (D.I.)	1974	2000		14	1
2000	BOWMANVILLE	ALONNA ST	ROSER CR	150mm EASEMENT ON ALONNA ST	290	150	D.I.	1973	2000		28	2
2000	BOWMANVILLE	BASELINE RD	25m E. OF MARTIN RD	80m W. OF WAVERLY RD	305	200	D.I.	1972	2000		21	1
2000	BOWMANVILLE	BASELINE RD	MEARNS AVE	HAINES ST (END OF WM)	375	250	D.I.	1972	2000		41	3
2000	BOWMANVILLE	CARISTRAP AVE	BASELINE RD	END OF AVE (S/L)	270	250	D.I.	1972	2000		30	2
2000	BOWMANVILLE	CHANTEL CT	ROSER CR	END OF CT (W/L)	35	150	D.I.	1973	2000		3	0
2000	BOWMANVILLE	LIBERTY ST N	60m N. OF PAMELA CT	210m S. OF PAMELA CT	270	200	C.I.	1914	2000		12	1
2000	BOWMANVILLE	LIBERTY ST N	REBECCA CT	145m S. OF REBECCA CT (LIBERTY P.S.)	145	200	C.I.	1914	2000		12	1
2000	BOWMANVILLE	ROSER CR	485m E. OF CHANTEL CT	260m W. OF CHANTEL CT	745	150	D.I.	1973	2000		62	4
2000	BOWMANVILLE	ROSER CR	MARTIN RD	80m E. OF MARTIN RD	80	150	PVC (D.I.)	1986	2000		7	1
2001	BOWMANVILLE	FLETT ST	JANE ST	SOUTHWAY DR	265	150	C.I.	1950	2001		24	2
2001	BOWMANVILLE	NELSON ST	LIBERTY ST	END OF ST (E/L)	100	150	C.I.	1952	2001		8	1
2001	BOWMANVILLE	ORCHARDVIEW BLVD	JANE ST	SOUTHWAY DR	245	150	C.I.	1952	2001		23	2
2001	BOWMANVILLE	PARKWAY AVE	E/L @ PARKWAY CR	W/L @ PARKWAY CR	250	150	C.I.	1967	2001		24	2
2001	BOWMANVILLE	PARKWAY AVE	LIBERTY ST	PARKWAY CR	80	300	C.I.	1963	2001		8	0
2001	BOWMANVILLE	PARKWAY CR	MUTTON CT	SW CORNER OF PARKWAY CR	730	150	C.I.	1963	2001		61	4
2001	BOWMANVILLE	SOUTHWAY DR	ORCHARDVIEW BLVD	SIMPSON AVE	80	150	C.I.	1952	2001		9	1
2002	BOWMANVILLE	HILLIER ST	SPRY AVE	QUINN DR	310	150	D.I.	1973	2002		23	2
2002	BOWMANVILLE	LAWRENCE CR	SPRY AVE	QUINN DR	275	150	D.I.	1973	2002		25	2
2002	BOWMANVILLE	LOS COMBE DR	E/L @ SPRY AVE	W/L @ SPRY AVE	495	150	D.I.	1973	2002		41	4
2002	BOWMANVILLE	SPRY AVE	BASELINE RD	LOS COMBE DR	705	150	D.I.	1975	2002		55	3
2003	BOWMANVILLE	HETHERINGTON DR	N/L @ LAWRENCE CR	END OF DR (S/L)	430	150	DI	1973	1993	2003	31	2
2003	BOWMANVILLE	HOLGATE CR	N/L @ HETHERINGTON DR	45m E. OF HETHERINGTON DR	45	150	DI	1973	2003		6	0
2003	BOWMANVILLE	HOLGATE CR	S/L @ HETHERINGTON DR	70m E. OF HETHERINGTON DR	70	150	DI	1973	2003		6	1
2003	BOWMANVILLE	LAWRENCE CR	QUINN DR	WAVERLY RD	650	150	DI	1973	2003		54	2

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2003	BOWMANVILLE	QUINN DR	LAWRENCE CR	WAVERLY RD	300	150	DI	1973	1993	2003	27	2
2004	BOWMANVILLE	RHONDA AVE	LAWRENCE GATE	85m S. OF DOREEN CR	220	200	D.I.	1972	2004		24	2
2004	BOWMANVILLE	RHONDA AVE	WAVERLY RD	85m S. OF DOREEN CR	390	150	D.I.	1972	2004		40	3
2004	BOWMANVILLE	ROSALYNNE CR	N/L @ RHONDA AVE	S/L @ RHONDA AVE	375	150	D.I.	1972	2004		35	3
2005	BOWMANVILLE	BASELINE RD	WAVERLY RD	800m E. OF WAVERLY RD	840	300	D.I.	1970	1992	2005	97	5
2005	BOWMANVILLE	STRIKE AVE	LITTLE AVE (S/L)	WAVERLY RD.	405	150	D.I.	1970	2005		32	3
2006	BOWMANVILLE	COLE AVE	LAWRENCE CR	END OF RD	270	150	D.I.	1973	2006		48	3
2006	BOWMANVILLE	DOREEN CR	RHONDA AVE	END OF CR	510	200	D.I.	1972	2006		22	2
Bowmanville Totals					16,922						1,537	111
2001	BROOKLIN	FERGUSON AVE	VIPOND RD	HEBERDOWN CR	365	150	C.I.	1955	2001		36	2
2001	BROOKLIN	GARSDALE AVE	HEBERDOWN CR	VIPOND RD	275	150	C.I.	1955	2001		27	2
2001	BROOKLIN	HEBERDOWN CR	FERGUSON AVE	VIPOND RD	810	150	C.I.	1955	2001		75	5
2001	BROOKLIN	MITCHELL AVE	HEBERDOWN CR	VIPOND RD	220	150	C.I.	1955	2001		19	1
2001	BROOKLIN	VIPOND RD	FERGUSON AVE	MONTGOMERY AVE	330	200	C.I.	1955	2001		35	2
2001	BROOKLIN	VIPOND RD	MONTGOMERY AVE	HEBERDOWN CR	90	200	PVC (C.I.)	2002	2001		9	1
Brooklin Totals					2,090						201	13
1999	CANNINGTON	CAMERON ST	BROCK RD (18A)	ALBERT ST	560	200	C.I.	1976	1999		50	3
Cannington Totals					560						50	3
1987	OSHAWA	FOX ST	CHAMPLAIN AVE	N/L OF W/M	498	200	D.I.	1972	1987		41	2
1991	OSHAWA	ANNAPOLIS AVE	LANARK DR	WAVERLY ST N	86	200	D.I.	1973	1991		9	1
1991	OSHAWA	LANARK DR	ANNAPOLIS AVE	WAVERLY ST N	310	150	D.I.	1975	1991	2003	21	2
1991	OSHAWA	WAVERLY ST N	150mm EASEMENT ON WAVERLY ST N	45m S. OF FIFE CT	229	150	D.I.	1969	1991		13	2
1991	OSHAWA	WAVERLY ST N	ROSSLAND RD W	150mm EASEMENT ON WAVERLY ST N	185	200	D.I.	1969	1991	2005	16	1
1992	OSHAWA	AYR CT	WAVERLY ST N	END OF CT (E/L)	40	100	D.I.	1970	1992		2	0
1992	OSHAWA	BERWICK CR	N/L @ WAVERLY ST N	S/L @ WAVERLY ST N	370	150	D.I.	1969	1992	2005	25	2
1992	OSHAWA	FIFE CT	WAVERLY ST N	END OF CT (E/L)	50	100	PVC (D.I.)	1995	1992		2	0
1992	OSHAWA	GREENOCH CT	LANARK DR	END OF CT (W/L)	40	100	D.I.	1970	1992	2003	5	0
1992	OSHAWA	HARCOURT DR	FLORREL DR	HARCOURT CT	90	150	D.I.	1968	1992	2005	7	1
1992	OSHAWA	HARCOURT DR	OLIVE AVE	FLORREL DR	115	150	C.I.	1965	1992	2005	11	1
1992	OSHAWA	OXFORD ST	MALAGA RD	270m S. OF MALAGA RD	270	200	C.I.	1979	1992		50	4
1992	OSHAWA	OXFORD ST	PORTER ST	290m N. OF PORTER ST	290	200	D.I.	1979	1992		50	4
1993	OSHAWA	CENTRAL PARK BLVD N	CARNABY CR	MAYFAIR AVE	360	150	D.I.	1970	1993		42	3
1993	OSHAWA	CENTRAL PARK BLVD N	MAYFAIR AVE	NEWGATE AVE	60	300	D.I.	1969	1993		3	0
1993	OSHAWA	CENTRAL PARK BLVD N	NEWGATE AVE	ROSSLAND RD E	130	150	D.I.	1969	1993		11	0
1993	OSHAWA	DURHAM CT	DURHAM ST	END OF CT (W/L)	110	150	D.I.	1970	1993	2003	7	1
1993	OSHAWA	TATRA DR	THORNTON RD N	END OF DR (S/L)	250	200	D.I.	1971	1993	2003	18	2
1995	OSHAWA	BERMUDA AVE	WAVERLY ST N	244m E. OF WAVERLY ST N	244	200	D.I.	1972	1995		25	3
1995	OSHAWA	FAREWELL ST	HARBOUR RD	MARWOOD DR	440	400	D.I.	1968	1995		55	4
1995	OSHAWA	FAREWELL ST	WENTWORTH ST E	MARWOOD DR	390	300	D.I.	1968	1995	2005	43	2
1995	OSHAWA	WAVERLY ST N	ROSSLAND RD W	BERMUDA AVE	355	200	PVC (D.I.)	2001	1995		29	3
1995	OSHAWA	WENTWORTH AVE	WILSON RD S	FAREWELL AVE	405	400	D.I.	1967	1995		66	3

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1996	OSHAWA	ADDISON ST	TENNYSON AVE	CHAUCER AVE	210	150	C.I.	1957	1996		15	2
1996	OSHAWA	CARNATION CT	FLORELL DR	END OF CT (W/L)	75	150	C.I.	1960	1996		6	1
1996	OSHAWA	CHAUCER AVE	ADDISON ST	SHAKESPEARE ST	280	150	C.I.	1957	1996		20	2
1996	OSHAWA	COLERIDGE ST	TENNYSON AVE	WHITMAN CR	165	150	C.I.	1955	1996		11	1
1996	OSHAWA	DEAN AVE	LOMOND ST	DUNKIRK AVE	60	150	C.I.	1965	1996		8	1
1996	OSHAWA	DEAN AVE	NORMANDY ST	LOMOND ST	215	150	D.I.	1971	1996		13	1
1996	OSHAWA	DEAN AVE	RITSON RD	NORMANDY ST	405	150	C.I.	1963	1996		24	2
1996	OSHAWA	EMERSON AVE	FAREWELL ST	COLERIDGE ST	325	150	C.I.	1964	1996		20	2
1996	OSHAWA	FAREWELL ST	DEAN AVE	KEATES AVE	460	150	C.I.	1955	1996		27	2
1996	OSHAWA	FLORELL DR	HARMONY RD	OLIVE AVE	325	150	C.I.	1960	1996		41	4
1996	OSHAWA	GUELPH ST	GLIDDON ST	HOSKIN AVE	120	150	C.I.	1968	1996		9	1
1996	OSHAWA	GUELPH ST	HOSKIN AVE	TAYLOR AVE	280	150	D.I.	1968	1996		19	1
1996	OSHAWA	GUELPH ST	TAYLOR AVE	OLIVE AVE	330	150	PVC (D.I.)	2000	1996		21	2
1996	OSHAWA	NELSON ST	WATERLOO ST	70m N OF WATERLOO ST	70	200	C.I.	1963	1996		5	1
1996	OSHAWA	NELSON ST	WELLINGTON AVE E	END OF ST (S/L)	240	150	D.I.	1975	1996		14	1
1996	OSHAWA	NELSON ST	WENTWORTH ST E	70m N OF WATERLOO ST	150	150	D.I.	1969	1996		10	0
1996	OSHAWA	NELSON ST	WENTWORTH ST E	CONANT ST	440	150	C.I.	1963	1996		30	3
1996	OSHAWA	SHAKESPEARE AVE	FAREWELL ST	ADDISON ST	250	150	PVC (C.I.)	1998	1996		18	2
1997	OSHAWA	CADILLAC AVE S	CRERAR AVE	KING ST E	1,170	150	C.I.	1950	1997		73	6
1997	OSHAWA	CENTRAL PARK BLVD N	CRERAR AVE	KING ST E	1,170	150	C.I.	1953	1997		98	5
1997	OSHAWA	CENTRAL PARK BLVD N	ELGIN ST E	140m S. OF COLBORNE ST	345	150	C.I.	1954	1997		25	2
1997	OSHAWA	CENTRAL PARK BLVD N	ELGIN ST E	35m N. OF DELROY CT	155	200	D.I.	1969	1997		22	2
1997	OSHAWA	CRERAR AVE	CENTRAL PARK BLVD N	WILSON RD S	355	150	C.I.	1955	1997		31	3
1997	OSHAWA	HIGHLAND AVE	CRERAR AVE	ATHOL ST E	1,045	150	C.I.	1953	1997		86	6
1998	OSHAWA	BLOOR ST	235m W. OF GRANDVIEW ST	460m W. OF GRANDVIEW ST	225	300	D.I.	1976	1998		20	2
1998	OSHAWA	CHADBURN ST	GLIDDON AVE	END OF CHADBURN CT (S/L)	645	150	C.I.	1950	1998		44	4
1998	OSHAWA	DOWN CR	200mm EASEMENT ON DOWN CR	35m W. OF TOWNLINE RD	350	200	PVC (D.I.)	1976	1998		33	1
1998	OSHAWA	DOWN CR	35m W. OF TOWNLINE RD	S/L @ TOWNLINE RD	30	200	D.I.	1976	1998		4	1
1998	OSHAWA	DOWN CR	N/L @ TOWNLINE RD	200mm EASEMENT ON DOWN CR	305	150	D.I.	1976	1998		26	2
1998	OSHAWA	DOWNVIEW CR	N/L @ GRANDVIEW DR	S/L @ GRANDVIEW DR	360	200	D.I.	1976	1998		30	3
1998	OSHAWA	EDNA CT	WESLEY DR	END OF CT (S/L)	145	150	D.I.	1976	1998		11	1
1998	OSHAWA	NORMAN CR	GRANDVIEW DR	SOUTHDOWN ST	385	200	D.I.	1976	1998		35	3
1998	OSHAWA	NORMAN CT	SOUTHDOWN ST	END OF CT (E/L)	130	300	D.I.	1976	1998		9	1
1998	OSHAWA	SOUTHDALE AVE	SOUTHDOWN ST	SOUTHRIDGE ST	125	200	D.I.	1977	1998		14	1
1998	OSHAWA	SOUTHDOWN DR	SOUTHDALE AVE	SOUTHRIDGE ST	290	200	D.I.	1977	1998		24	3
1998	OSHAWA	SOUTHDOWN ST	GRANDVIEW DR	SOUTHDALE AVE	150	200	D.I.	1976	1998		14	1
1998	OSHAWA	SOUTHGATE DR	SOUTHDALE AVE	SOUTHPORT RD	345	200	D.I.	1977	1998		30	2
1998	OSHAWA	SOUTHGATE DR	SOUTHPORT RD	TOWNLINE RD	155	300	D.I.	1977	1998		22	1
1998	OSHAWA	SOUTHRIDGE ST	SOUTHDALE AVE	SOUTHGATE DR	300	200	D.I.	1977	1998		27	1
1998	OSHAWA	WESLEY DR	EDNA CT	S/L @ GRANDVIEW DR	260	300	D.I.	1976	1998		22	2
1998	OSHAWA	WESLEY DR	N/L @ GRANDVIEW DR	EDNA CT	160	150	D.I.	1976	1998		10	1
1999	OSHAWA	BALDWIN CT	HOSKIN AVE	END OF CT (S/L)	135	150	C.I.	1958	1999		12	1
1999	OSHAWA	CAMELOT CT	END OF CT (S/L)	50m N. OF CHANCERY CT	140	150	D.I.	1972	1999		14	1
1999	OSHAWA	CAMELOT DR	HILLCROFT ST	GALAHAD DR	580	200	D.I.	1975	1999		55	4

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1999	OSHAWA	CHANCERY CT	CAMELOT CT	END OF CT (E/L)	45	200	D.I.	1972	1999		4	0
1999	OSHAWA	CRESTWOOD DR	HILLCROFT ST	OAKWOOD AVE	365	200	D.I.	1972	1999		20	3
1999	OSHAWA	EVERSON CT	CRESTWOOD DR	END OF CT (E/L)	70	150	D.I.	1972	1999		1	1
1999	OSHAWA	GALAHAD DR	CAMELOT DR	GENTRY CR (S/L)	680	200	D.I.	1976	1999		67	3
1999	OSHAWA	GAYLORD DR	GENTRY CR	HILLCROFT ST	360	200	D.I.	1976	1999		35	3
1999	OSHAWA	GENTRY CR	N/L @ GALAHAD DR	S/L @ GALAHAD DR	710	200	D.I.	1976	1999		53	5
1999	OSHAWA	GLADFERN ST	GALAHAD DR	ROSSLAND RD	125	200	D.I.	1975	1999		13	1
1999	OSHAWA	GOTHIC CT	GREENBRIAR DR	END OF CT (W/L)	80	150	D.I.	1976	1999		9	1
1999	OSHAWA	GOTHIC DR	HILLCROFT ST	GREENBRIAR DR	365	150	D.I.	1976	1999		33	2
1999	OSHAWA	GRANGE CT	HILLCROFT ST	END OF CT (W/L)	235	150	D.I.	1976	1999		14	2
1999	OSHAWA	GREENBRIAR DR	HILLCROFT ST	GOTHIC DR	580	150	D.I.	1976	1999		53	4
1999	OSHAWA	HILLCROFT ST	CRESTWOOD DR	GLEBE AVE	920	200	D.I.	1976	1999		72	6
1999	OSHAWA	KELLY AVE	ST PATRICK ST	WILSON RD	180	150	D.I.	1976	1999		16	0
1999	OSHAWA	LANCELOT CR	S/L @ CAMELOT DR	N/L @ GALAHAD DR	340	150	D.I.	1975	1999		33	1
1999	OSHAWA	MERLIN CT	CAMELOT DR	END OF CT (E/L)	60	150	D.I.	1975	1999		3	1
1999	OSHAWA	MILTON ST	CHESTERTON AVE	TENNYSON AVE	155	150	C.I.	1955	1999		13	1
1999	OSHAWA	OAKWOOD AVE	WILSON RD N	CRESTWOOD DR	175	200	D.I.	1965	1999		19	2
1999	OSHAWA	PERCIVAL CT	CAMELOT DR	END OF CT (E/L)	60	200	D.I.	1975	1999		5	1
2000	OSHAWA	BOUNDARY RD	460m S. OF WENTWORTH ST W	415m N OF THORNTON RD S	200	300	D.I.	1977	2000		27	2
2000	OSHAWA	BOUNDARY RD	WENTWORTH ST W	CROWN CT	145	300	D.I.	1978	2000		20	1
2000	OSHAWA	CROWN CT	BOUNDARY RD	END OF CT (W/L)	150	300	D.I.	1978	2000		6	1
2000	OSHAWA	SKAE DR	THORNTON RD S	PHILLIP MURRAY AVE	675	300	D.I.	1979	2000		87	4
2000	OSHAWA	TAUNTON RD	RITSON RD	105m E. OF NAPLES ST	360	300	D.I.	1976	2000		38	3
2000	OSHAWA	TERWILLEGAR AVE	THORNTON RD S	SKAE DR	320	300	D.I.	1979	2000		35	2
2000	OSHAWA	THORNTON RD S	PHILLIP MURRAY AVE	SKAE DR	345	300	D.I.	1974	2000		42	3
2001	OSHAWA	ARENA ST	COLBORNE ST	GLADSTONE AVE	105	150	C.I.	1955	2001		7	1
2001	OSHAWA	BOUNDARY RD	WENTWORTH ST W	450m S. OF WENTWORTH ST W	450	300	D.I.	1978	2001		52	2
2001	OSHAWA	COLBORNE ST	ARENA ST	GLADSTONE AVE	85	150	C.I.	1955	2001		7	1
2001	OSHAWA	ELGIN CT	NIPIGON ST	END OF CT (W/L)	75	150	C.I.	1955	2001		52	2
2001	OSHAWA	ELGIN ST	ARENA ST	WARREN AVE	110	150	C.I.	1956	2001		7	1
2001	OSHAWA	FAIRLAWN CT	RIDGEWAY AVE	END OF CT (S/L)	170	150	C.I.	1967	2001		7	0
2001	OSHAWA	FERNHILL BLVD	WOODCREST AVE	FAIRLEIGH AVE	195	150	C.I.	1953	2001		9	1
2001	OSHAWA	GLADSTONE AVE	ARENA ST	30m W. OF ARENA ST	150	150	C.I.	1965	2001		15	1
2001	OSHAWA	HUMBER AVE	PARK RD	NIPIGON ST	200	150	C.I.	1957	2001		16	1
2001	OSHAWA	MILLER AVE	FERNHILL BLVD	95m E. OF FERNHILL BLVD	95	150	C.I.	1946	2001		3	0
2001	OSHAWA	MILLER AVE	GIBBONS ST	90m W. OF GIBBONS ST	90	150	D.I.	1946	2001		20	2
2001	OSHAWA	MILLER AVE	MILLER AVE	STEVENSON RD N	195	150	C.I.	1950	2001		8	0
2001	OSHAWA	NIPIGON ST	ADELAIDE AVE W	RIDGEWAY AVE	280	150	C.I.	1962	2001		8	1
2001	OSHAWA	NIPIGON ST	ANDERSON AVE	ELGIN CT	95	150	C.I.	1961	2001		19	2
2001	OSHAWA	RIDGEWAY AVE	PARK RD	FERNHILL BLVD	595	150	C.I.	1963	2001		23	2
2001	OSHAWA	SAGUENAY AVE	PARK RD	END OF AVE (W/L)	185	150	C.I.	1957	2001		7	1
2001	OSHAWA	TRENT CT	RIDGEWAY AVE	END OF CT (N/L)	70	150	C.I.	1957	2001		42	3
2001	OSHAWA	TRENT ST	ADELAIDE AVE W	HUMBER AVE	185	150	C.I.	1957	2001		11	1
2001	OSHAWA	WOODCREST AVE	FERNHILL BLVD	GIBBONS ST	185	150	C.I.	1951	2001		5	0

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2001	OSHAWA	WOODCREST AVE	STEVENSON RD N	FERNHILL BLVD	195	150	C.I.	1953	2001		18	2
2002	OSHAWA	ADMIRAL RD	PARK RD	90M W. OF PARK RD (W/L OF WM)	90	150	C.I.	1959	2002		7	1
2002	OSHAWA	BADER AVE	ROSMERE ST	FINUCANE ST	190	150	C.I.	1955	2002		15	1
2002	OSHAWA	BARKLEY CR	S/L @ VANCOUVER ST	N/L @ VANCOUVER ST	310	150	C.I.	1966	2002		28	3
2002	OSHAWA	CABOT ST	GIBB ST	KING ST W	805	150	C.I.	1959	2002		66	6
2002	OSHAWA	CARTIER AVE	STEVENSON RD S	WAVERLY ST	385	150	C.I.	1957	2002		30	3
2002	OSHAWA	CUNNINGHAM AVE	ROSMERE ST	FINUCANE ST	180	150	C.I.	1956	2002		15	1
2002	OSHAWA	DURHAM ST	CARTIER AVE	MONTCALM AVE	265	150	C.I.	1960	2002		24	2
2002	OSHAWA	DURHAM ST	DURHAM CT	GIBB ST	210	150	C.I.	1960	2002		17	1
2002	OSHAWA	DURHAM ST	GIBB ST	250m N. OF GIBB ST (N/L OF WM)	250	150	C.I.	1960	2002		26	2
2002	OSHAWA	FAIRLAWN ST	ANNAPOLIS AVE	MARION AVE	285	150	C.I.	1955	2002		26	2
2002	OSHAWA	FERNHILL BLVD	ANNAPOLIS AVE	MARION AVE	295	150	C.I.	1955	2002		22	2
2002	OSHAWA	FERNHILL BLVD	CUNNINGHAM AVE	ROSSLAND RD	390	150	C.I.	1955	2002		32	2
2002	OSHAWA	FERNHILL BLVD	LOWELL AVE	FAIRLEIGH AVE	60	150	D.I.	1973	2002		6	0
2002	OSHAWA	FINUCANE ST	BEURLING AVE	BADER AVE	600	150	C.I.	1955	2002		46	3
2002	OSHAWA	GARDEN CT	PARK RD N	END OF CT (W/L)	45	150	C.I.	1957	2002		4	1
2002	OSHAWA	HARLOW AVE	WAVERLY ST	VANCOUVER ST	150	200	C.I.	1965	2002		14	1
2002	OSHAWA	MALAN AVE	GIBBONS ST	ROSMERE AVE	80	150	C.I.	1957	2002		6	0
2002	OSHAWA	MARION AVE	35m W. OF NIPIGON ST	FINUCANE ST	445	150	C.I.	1956	2002		34	2
2002	OSHAWA	MARION AVE	NIPIGON ST	35m W. OF NIPIGON ST	35	150	PVC (C.I.)	1979	2002		3	1
2002	OSHAWA	MURIEL AVE	PARK RD	NIPIGON ST	195	150	C.I.	1951	2002		19	2
2002	OSHAWA	NIPIGON ST	RIDGEWAY AVE	ANNAPOLIS AVE	235	150	C.I.	1951	2002		18	2
2002	OSHAWA	PERRY CR	N/L @ CABOT ST	S/L @ CABOT ST	305	150	C.I.	1957	2002		25	2
2002	OSHAWA	ROSMERE ST	ANNAPOLIS AVE	BADER AVE	680	150	C.I.	1955	2002		55	4
2002	OSHAWA	SATURNA AVE	WAVERLY ST	BARKLEY CR	70	150	C.I.	1966	2002		5	0
2002	OSHAWA	TURF CT	PARK RD	END OF CT (E/L)	30	150	D.I.	1980	2002		3	0
2002	OSHAWA	VALDEZ CT	HARLOW AVE	END OF CT (N/L)	90	150	C.I.	1965	2002		7	0
2002	OSHAWA	VANCOUVER CT	HARLOW AVE	END OF CT (N/L)	170	150	C.I.	1965	2002		16	1
2002	OSHAWA	VANCOUVER ST	GIBB ST	55m N. OF GIBB ST	55	150	D.I.	1966	2002		6	1
2002	OSHAWA	VANCOUVER ST	HARLOW AVE	55m N. OF GIBB ST	460	200	C.I.	1966	2002		37	3
2002	OSHAWA	VILLA CT	PARK RD	END OF CT (E/L)	30	150	D.I.	1970	2002		3	0
2002	OSHAWA	WALMER RD	PARK RD	NIPIGON ST	140	150	C.I.	1958	2002		13	2
2002	OSHAWA	WAVERLY ST	GIBB ST	55m N. OF GIBB ST	55	150	D.I.	1961	2002		5	1
2002	OSHAWA	WAVERLY ST	MONTCALM AVE	115m S. OF SATURNA AVE	545	150	C.I.	1961	2002		36	2
2002	OSHAWA	WELLAND AVE	PARK RD	GIBBONS ST	145	150	C.I.	1957	2002		11	1
2003	OSHAWA	BALMORAL DR	TWEEDSMUIR ST	80m W. OF TWEEDSMUIR ST	80	150	D.I.	1975	2003		7	0
2003	OSHAWA	BALMORAL DR	WAVERLY ST N	160m E. OF WAVERLY ST N	160	150	C.I.	1966	2003		13	1
2003	OSHAWA	BRAEMOR CT	INVERNESS DR	END OF CT (E/L)	130	150	C.I.	1964	2003		13	1
2003	OSHAWA	BUCHAN AVE	WAVERLY ST N	TWEEDSMUIR ST	155	150	C.I.	1961	2003		15	1
2003	OSHAWA	COLONSAY CT	WAVERLY ST N	END OF CT (S/L)	100	150	D.I.	1975	2003		12	1
2003	OSHAWA	DUNDEE AVE	WAVERLY ST N	ELEZABETH ST	320	150	C.I.	1964	2003		31	2
2003	OSHAWA	DURHAM CT	DURHAM ST	END OF CT (W/L)	110	150	D.I.	1970	1993	2003	8	1
2003	OSHAWA	ELIZABETH ST	ADELAIDE ST W	DUNDEE AVE	370	150	C.I.	1953	2003		29	2
2003	OSHAWA	ELIZABETH ST	DUNDEE AVE	MARION AVE	475	150	C.I.	1964	2003		44	2

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2003	OSHAWA	FAIRLAWN ST	RIDGEWAY AVE	ANNAPOLIS AVE	240	150	C.I.	1973	2003		21	2
2003	OSHAWA	FAIRLEIGH AVE	FERNHILL BLVD	GIBBONS ST	170	150	C.I.	1941	2003		18	1
2003	OSHAWA	GIBBONS ST	ROSSLAND RD W	ANNAPOLIS AVE	790	150	C.I.	1957	2003		73	5
2003	OSHAWA	GREENOCH CT	LANARK DR	END OF CT (W/L)	10	100	D.I.	1970	1992	2003	2	0
2003	OSHAWA	INVERNESS DR	DUNDEE AVE	ANNAPOLIS AVE	270	150	C.I.	1963	2003		24	2
2003	OSHAWA	LANARK DR	ANNAPOLIS AVE	WAVERLY ST N	310	150	D.I.	1975	1991	2003	24	2
2003	OSHAWA	LOWELL AVE	STEVENSON RD N	FERNHILL BLVD	190	150	C.I.	1956	2003		16	1
2003	OSHAWA	MITCHELL AVE	140m W. OF DREW ST	280m W. OF DREW ST	140	400	C.I.	1957	2003		23	1
2003	OSHAWA	MITCHELL AVE	DREW ST	90m W. OF DREW ST	90	400	D.I.	1957	2003		17	1
2003	OSHAWA	RADISSON AVE	90m E. OF WAVERLY ST	DURHAM ST	190	150	C.I.	1968	2003		21	1
2003	OSHAWA	RADISSON AVE	WAVERLY ST	90m E. OF WAVERLY ST	90	150	D.I.	1968	2003		11	1
2003	OSHAWA	RIDGEWAY AVE	STEVENSON RD N	W/L 50m W. OF ELIZABETH ST	170	150	C.I.	1953	2003		16	1
2003	OSHAWA	TATRA DR	THORNTON RD N	END OF CT (S/L)	260	200	D.I.	1971	1993	2003	26	1
2003	OSHAWA	TWEEDSMUIR ST	ANNAPOLIS AVE	BUCHAN AVE	125	150	C.I.	1961	2003		11	1
2003	OSHAWA	TWEEDSMUIR ST	BUCHAN AVE	BALMORAL DR	175	150	D.I.	1975	2003		18	1
2003	OSHAWA	VANCOUVER CR	W/L @ GIBB ST	E/L @ GIBB ST	425	150	C.I.	1969	2003		44	3
2003	OSHAWA	WAVERLY ST N	100m S. of DUNDEE AVE	LANARK DR	615	200	C.I.	1965	2003		52	3
2003	OSHAWA	WAVERLY ST S	GIBB ST	END OF ST (S/L)	150	150	D.I.	1968	2003		15	1
2004	OSHAWA	FAIRGLEN AVE	FERNDAL ST	STEVENSON RD	75	150	D.I.	1970	2004		9	1
2004	OSHAWA	FERNDAL ST	ROSS AVE	FAIRGLEN AVE	380	200	D.I.	1970	2004		42	3
2004	OSHAWA	FERNHILL BLVD	ROSSLAND RD	JANE AVE	355	200	C.I.	1965	2004		70	5
2004	OSHAWA	GIBBONS ST	GLENDALE AVE	GLENMAR AVE	140	150	C.I.	1963	2004		13	1
2004	OSHAWA	GLENALAN AVE	GLENFOREST ST	GLENBRAE ST	140	150	C.I.	1959	2004		12	2
2004	OSHAWA	GLENBRAE ST	GLENCASTLE AVE	JANE AVE	195	150	C.I.	1959	2004		18	2
2004	OSHAWA	GLENBROOK ST	JANE AVE	END OF ST (N/L)	45	150	C.I.	1961	2004		4	1
2004	OSHAWA	GLENCAIRNE ST	75m S. OF ROSSMOUNT AVE	GLENMANOR DR	195	150	C.I.	1958	2004		20	2
2004	OSHAWA	GLENCASTLE AVE	GLENRUSH ST	GLENGROVE ST	155	150	C.I.	1959	2004		12	1
2004	OSHAWA	GLENDALE AVE	GLENFOREST ST	GLENGROVE ST	225	150	C.I.	1958	2004		18	2
2004	OSHAWA	GLENECHO ST	GLENDALE AVE	GLENMAR AVE	130	150	C.I.	1963	2004		14	1
2004	OSHAWA	GLENFOREST ST	GLENDALE AVE	JANE AVE	510	150	C.I.	1958	2004		48	4
2004	OSHAWA	GLENGROVE ST	GLENDALE AVE	GLENCASTLE AVE	300	150	C.I.	1957	2004		25	2
2004	OSHAWA	GLENMAR AVE	GLENECHO ST	GIBBONS ST	80	150	C.I.	1963	2004		7	1
2004	OSHAWA	GLENRUSH ST	GLENCASTLE AVE	GLENALAN AVE	120	150	C.I.	1960	2004		11	1
2004	OSHAWA	JANE AVE	FERNHILL BLVD	GLENMANOR DR	530	150	C.I.	1963	2004		51	4
2004	OSHAWA	NORTHCLIFFE AVE	GLENCAIRNE ST	WESTDALE AVE	110	150	C.I.	1959	2004		11	1
2004	OSHAWA	ROSS AVE	FERNHILL BLVD	STEVENSON RD	135	200	D.I.	1970	2004		15	1
2004	OSHAWA	ROSSMOUNT AVE	FERNHILL BLVD	WESTDALE AVE	405	150	C.I.	1957	2004		33	4
2004	OSHAWA	WESTDALE CT	WOODLEA AVE	END OF CT (S/L)	55	150	C.I.	1958	2004		5	0
2004	OSHAWA	WESTDALE ST	WOODLEA AVE	JANE AVE	460	150	C.I.	1959	2004		44	4
2004	OSHAWA	WOODLEA AVE	WESTDALE ST	GLENMANOR DR	185	150	C.I.	1956	2004		19	2
2004	OSHAWA	WOODLEA CR	N/L @ GLENMANOR DR	S/L @ GLENMANOR DR	290	150	C.I.	1956	2004		29	2
2005	OSHAWA	ATHABASCA ST	ERINLEA AVE	LABRADOR DR	120	200	C.I.	1965	2005		13	1
2005	OSHAWA	ATHABASCA ST	LABRADOR DR	HIGHWAY NO 2	495	150	C.I.	1953	2005		35	4
2005	OSHAWA	BELAIR CR	ELDORADO DR	ELDORADO DR	440	300	D.I.	1974	2005		46	3

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2005	OSHAWA	BERWICK CR	N/L @ WAVERLY ST N	S/L @ WAVERLY ST N	390	150	D.I.	1969	1992	2005	32	2
2005	OSHAWA	DERRY CT	TIPPERARY ST	END OF CT (W/L)	80	150	D.I.	1978	2005		7	0
2005	OSHAWA	EASTLAWN ST	LABRADOR DR	HIGHWAY NO 2	470	150	C.I.	1953	2005		38	3
2005	OSHAWA	ELDORADO DR	FLEETWOOD DR	BELAIR CR	570	200	D.I.	1975	2005		66	5
2005	OSHAWA	FAREWELL ST	WENTWORTH ST E	MARWOOD DR	365	300	D.I.	1968	1995	2005	47	3
2005	OSHAWA	FLEETWOOD DR	ADELAIDE AVE	ELDORADO DR	55	300	D.I.	1975	2005		7	1
2005	OSHAWA	FLEETWOOD DR	ELDORADO DR	End of Dr (S/L)	35	200	D.I.	1975	2005		5	0
2005	OSHAWA	HARCOURT DR	FLORREL DR	HARCOURT CT	155	150	D.I.	1968	1992	2005	15	1
2005	OSHAWA	HARCOURT DR	OLIVE AVE	FLORREL DR	130	150	C.I.	1965	1992	2005	10	1
2005	OSHAWA	KEEWATIN ST. S.	OLIVE AVE	WILLOWDALE AVE.	500	200	D.I.	1957-197	2005		51	3
2005	OSHAWA	KEEWATIN ST. S.	WILLOWDALE AVE.	KING ST. E.	545	400	D.I.	1957-1972	2005		76	4
2005	OSHAWA	LAGUNA DR	ELDORADO DR	ADELAIDE AVE	100	300	D.I.	1975	2005		12	1
2005	OSHAWA	MALIBU ST	ELDORADO DR	END OF ST (S/L)	60	200	D.I.	1975	2005		5	1
2005	OSHAWA	SHAMROCK CT	TIPPERARY ST	END OF CT (N/L)	180	150	D.I.	1978	2005		14	2
2005	OSHAWA	TIPPERARY ST	GIBB ST	SHAMROCK CT	140	150	D.I.	1978	2005		13	1
2005	OSHAWA	WAVERLY ST N	ROSSLAND RD W	150mm EASEMENT ON WAVERLY ST N	185	200	D.I.	1969	1991	2005	19	1
2006	OSHAWA	BALSAM CR	N/L @ CEDAR ST	S/L @ CEDAR ST	295	150	D.I.	1973	2006		29	2
2006	OSHAWA	BON ECHO DR	LAKEVIEW AVE	STONE ST	320	150	D.I.	1973	2006		38	2
2006	OSHAWA	DWIGHT AVE	CEDAR ST	OXFORD ST	390	150	D.I.	1969	2006		34	3
2006	OSHAWA	FENELON CR	S/L @ PARK RD	N/L @ PARK RD	810	200	D.I.	1975	2006		76	5
2006	OSHAWA	KILARNEY CT	CEDAR ST	W/L OF CT	195	150	D.I.	1973	2006		15	1
2006	OSHAWA	KINMOUNT CR	OXFORD ST	DWIGHT AVE	520	200	D.I.	1970	2006		49	3
2006	OSHAWA	LAKEVIEW AVE	BON ECHO DR	EVANGELINE DR	275	150	D.I.	1973	2006		23	2
2006	OSHAWA	NEPTUNE CT	VENUS CR	END OF CT	50	100	D.I.	1973	2006		5	0
2006	OSHAWA	OXFORD ST	DWIGHT AVE	KINMOUNT CR	250	150	D.I.	1967	2006		22	2
2006	OSHAWA	OXFORD ST	WENTWORTH ST	KINMOUNT CR	565	200	D.I.	1973	2006		54	4
2006	OSHAWA	VENUS CR	N/L @ CEDAR ST	S/L @ CEDAR ST	430	150	D.I.	1673	2006		37	3
2007	OSHAWA	BLUE HERON DR	KILLDEER ST	BLUEFINCH CT	85	400	D.I.	1973	2007		40	0
2007	OSHAWA	BLUE HERON DR	BLUEFINCH CT	ADELAIDE AVE	410	200	D.I.	1973	2007		8	1
2007	OSHAWA	BLUEFINCH CT	BLUE HERON DR	KEWATIN ST N EASEMENT	135	400	D.I.	1973	2007		23	1
2007	OSHAWA	BLUEFINCH CT	KEWATIN ST N EASEMENT	E. END OF STREET	20	150	D.I.	1973	2007		1	0
2007	OSHAWA	BLUEJAY CRES	KILLDEER ST	KILLDEER ST	380	150	D.I.	1973	2007		35	3
2007	OSHAWA	CARDINAL CT	BLUE HERON DR	W. END OF STREET	60	150	D.I.	1973	2007		5	0
2007	OSHAWA	GASPE AVE	PARK RD S	TREMBLAY ST	310	150	C.I.	1957	2007		27	2
2007	OSHAWA	KILLDEER ST	ADELAIDE AVE	BLUE HERON DR	430	400	D.I.	1973	2007		64	3
2007	OSHAWA	LAURENTIAN ST	LAKEFIELD ST	OXFORD ST	290	150	C.I.	1957	2007		25	2
2007	OSHAWA	ROSSLAND RD	WAVERLY ST	THORNTON RD	400	450	D.I.	1973	2007		63	3
2007	OSHAWA	SOMERVILLE ST	JONES AVE	RUSSETT AVE	1690	150	C.I.	1965	2007		148	11
2007	OSHAWA	SOMERVILLE ST	PONTIAC AVE	BEATRICE ST	110	400	D.I.	1981	2007		19	1
2007	OSHAWA	SOMERVILLE ST	TECUMSEH AVE	TAUNTON RD	530	300	C.I.	1965	2007		70	4
2007	OSHAWA	KENORA AVE	TREMBLAY ST	LAKEFIELD ST	250	150	C.I.	2007	2007		18	2
Oshawa Totals					64,597						5,960	445
1984	PICKERING	APPLEVIEW RD	BONITA AVE	DUNBARTON RD	1,050	150	D.I.	1970	1984		74	6

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YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1984	PICKERING	FINCH AVE	LIVERPOOL RD	VALLEYFARM RD	795	200	D.I.	1968	1984		68	6
1985	PICKERING	ALTONA RD	SHEPPARD AVE	35m S. OF FIDDLERS CT	469	200	D.I.	1970	1985		14	1
1985	PICKERING	ROUGEMOUNT DR	55m N. OF ROUGE HILL CT	ALTONA RD	795	150	PVC (D.I.)	1988	1985		43	0
1985	PICKERING	ROUGEMOUNT DR	KINGSTON RD	55m N. OF ROUGE HILL CT	250	150	D.I.	1970	1985		14	0
1987	PICKERING	BAYLY ST	215m E. OF BROCK RD	190m E. OF TOY AVE	240	300	D.I.	1973	1987		14	2
1987	PICKERING	BAYLY ST	BROCK RD	215m E. OF BROCK RD	215	300	C.I.	1973	1987		13	1
1987	PICKERING	GLENDALE DR	GLENANNA RD	KINGSTON RD	341	150	PVC (D.I.)	1994	1987		23	2
1988	PICKERING	BONITA AVE	FAIRPORT RD	APPLEVIEW RD	270	200	D.I.	1970	1988	1993	24	2
1988	PICKERING	FAIRPORT RD	DUNBARTON RD	STROUDS LN	790	250	PVC (D.I.)	1995	1988		76	4
1988	PICKERING	GLENGROVE RD	KINGSTON RD	GLENVIEW RD	430	150	PVC (D.I.)	1989	1988		27	2
1988	PICKERING	GLENVIEW RD	S/L @ GLENGROVE RD	N/L @ GLENGROVE RD	340	150	PVC (D.I.)	1989	1988		23	1
1989	PICKERING	OLD FOREST RD	SHEPARD AVE	ROSEBANK RD	900	150	D.I.	1970	1989		41	2
1989	PICKERING	PLUMBER ST	SALK RD	BROCK RD	240	150	D.I.	1972	1989		14	2
1989	PICKERING	ROSEBANK RD	140m N. OF FOXWOOD TRAIL	FINCH AVE	1,500	150	PVC (D.I.)	1994	1989		102	6
1989	PICKERING	ROSEBANK RD	FOXWOOD TRAIL	140m N. OF FOXWOOD TRAIL	140	400	C.I.	1969	1989		10	0
1989	PICKERING	SALK RD	BAYLY ST	END OF RD (N/L)	391	200	D.I.	1969	1989	2005	25	1
1989	PICKERING	SPRUCE HILL RD	SHADY BROOK RD	END OF RD (S/L)	220	150	D.I.	1976	1989		17	1
1989	PICKERING	TOY AVE	BAYLY ST	END OF AVE (N/L)	450	200	D.I.	1965	1989		31	2
1989	PICKERING	WHITES RD	FINCH AVE	300mm EASEMENT @ SHADYBROOK DR	1,800	200	D.I.	1976	1989		67	14
1990	PICKERING	PINEGROVE AVE	E/L @ WOODVIEW AVE	ROCKWOOD DR	130	250	D.I.	1978	1990		1	1
1990	PICKERING	PINEGROVE AVE	ROCKWOOD DR	END OF AVE (S/L)	1,050	150	D.I.	1978	1990		82	7
1990	PICKERING	SANDY BEACH RD	165m S. OF ALYSSUM ST	315m N. OF ALYSSUM ST	480	300	D.I.	1969	1990		35	3
1990	PICKERING	WOODVIEW AVE	100m N. OF TWYNN RIVERS DR	PINEGROVE AVE	900	250	D.I.	1969	1990		65	6
1990	PICKERING	WOODVIEW AVE	TWYNN RIVERS DR	330m S. OF TWYNN RIVERS DR	330	150	D.I.	1969	1990		20	3
1991	PICKERING	BRANDS CT	FIELDLIGHT BLVD	END OF CT (E/L)	200	150	D.I.	1976	1991		13	1
1991	PICKERING	BROCK RD	BAYLY ST	PLUMBER ST	226	300	D.I.	1969	1991		31	3
1991	PICKERING	EVERTON ST	ROSEFIELD RD	END OF ST (W/L)	200	150	D.I.	1976	1991		12	1
1991	PICKERING	FAYLEE CR	N/L @ FIELDLIGHT BLVD	S/L @ FIELDLIGHT BLVD	490	150	D.I.	1976	1991		33	3
1991	PICKERING	FIELDLIGHT BLVD	GLENANNA RD	ROSEFIELD RD	560	200	D.I.	1976	1991		47	3
1991	PICKERING	FIELDLIGHT BLVD	ROSEFIELD RD	LODGE RD	300	150	D.I.	1976	1991		15	1
1991	PICKERING	LODGE RD	W/L @ POPPY LN	E/L @ POPPY LN	400	150	D.I.	1976	1991		25	2
1991	PICKERING	MEMORY LN	PENNY LN	EVERTON ST	144	150	D.I.	1976	1991		10	1
1991	PICKERING	NOTION RD	ORCHARD RD	KINGSTON RD	557	300	D.I.	1981	1991		66	4
1991	PICKERING	POPPY LANE	FIELDLIGHT BLVD	E/L @ LODGE RD	300	150	D.I.	1976	1991		14	2
1991	PICKERING	ROSEFIELD RD	FINCH AVE	FIELDLIGHT BLVD	310	200	D.I.	1976	1991		27	2
1991	PICKERING	ROSEFIELD RD	GLENVIEW RD	FIELDLIGHT BLVD	310	150	D.I.	1976	1991		21	2
1992	PICKERING	ADA CT	SHADY BROOK DR	END OF CT (N/L)	190	150	D.I.	1975	1992		13	1
1992	PICKERING	ALWIN CIRCLE	N/L @ DENMAR RD	S/L @ DENMAR RD	470	150	D.I.	1974	1992		32	3
1992	PICKERING	ASPEN RD	E/L @ PARKSIDE RD	120m W. OF E/L @ PARKSIDE RD	120	200	D.I.	1992	1992		11	0
1992	PICKERING	BELINDA CT	SHADY BROOK DR	END OF CT (N/L)	130	150	D.I.	1976	1992		10	1
1992	PICKERING	COBBLER'S CT	N/W/L @ EDGEWOOD RD	E/L @ EDGEWOOD RD	330	150	D.I.	1975	1992		23	2
1992	PICKERING	CRICKET LN	STROUDS LN	ASPEN RD	210	150	D.I.	1976	1992		17	2
1992	PICKERING	DENMAR RD	KINGSTON RD	ALWIN CIRCLE (S/L)	340	200	D.I.	1974	1992		38	2
1992	PICKERING	DREYBER CT	PICKERING PKWY	END OF CT (W/L)	170	150	D.I.	1979	1992		12	1

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1992	PICKERING	EASTBANK RD	EDGEWOOD RD	END OF RD (N/L)	500	150	D.I.	1976	1992		34	3
1992	PICKERING	EDGEWOOD RD	NW/L @ SHADYBROOK DR	SE/L @ SHADYBROOK DR	500	150	D.I.	1975	1992		35	4
1992	PICKERING	GETA CIRCLE	N/L @ PICKERING PKWY	S/L @ PICKERING PKWY	440	150	D.I.	1979	1992		31	3
1992	PICKERING	GUILD RD	KINGSTON RD	FINCH AVE	370	250	D.I.	1971	1992		19	3
1992	PICKERING	HEDGEROW PL	SHADYBROOK DR	EASTBANK RD	135	150	D.I.	1976	1992		10	1
1992	PICKERING	JACQUELINE AVE	EASTBANK RD	SPRUCE HILL RD	145	150	D.I.	1970	1992		11	1
1992	PICKERING	JAYWIN CIRCLE	N/L @ DENMAR RD	S/L @ DENMAR RD	400	150	D.I.	1974	1992		26	3
1992	PICKERING	KATE'S LN	SHADYBROOK DR	END OF LN (E/L)	90	150	D.I.	1975	1992		1	0
1992	PICKERING	MEADOWVIEW AVE	SHADYBROOK DR	EDGEWOOD RD	430	150	D.I.	1976	1992		22	2
1992	PICKERING	MILLBANK RD	ASPEN RD	PARKSIDE DR	240	150	D.I.	1976	1992		17	2
1992	PICKERING	MINSTREL MNR	COBBLER'S CT	END OF MNR (N/L)	70	150	D.I.	1979	1992		5	0
1992	PICKERING	NEW ST	ASPEN RD	PARKSIDE DR	240	150	D.I.	1978	1992		13	2
1992	PICKERING	NEW ST	PARKSIDE DR	CRICKET LN	380	300	D.I.	1976	1992		48	3
1992	PICKERING	ORION CT	SHADYBROOK DR	END OF CT (N/L)	80	150	D.I.	1976	1992		5	1
1992	PICKERING	PARKSIDE DR	NEW ST	ASPEN RD	500	300	D.I.	1978	1992		59	3
1992	PICKERING	PARKSIDE DR	W/L @ ASPEN RD	E/L @ ASPEN RD	470	150	D.I.	1978	1992		33	3
1992	PICKERING	PEBBLE CT	PARKSIDE DR	100m W. OF PARKSIDE DR	100	150	D.I.	1982	1992		10	1
1992	PICKERING	PICKERING PKWY	BROCK RD	225m S. OF PORTLAND CT	670	300	D.I.	1979	1992		85	5
1992	PICKERING	SANDSTONE MNR	GRANITE CT	END OF MNR (S/L)	295	300	D.I.	1981	1992	2003	19	2
1992	PICKERING	SANOK DR	HILLCREST RD	SAMFORD AVE	495	150	C.I.	1964	1992		35	4
1992	PICKERING	SHADYBROOK DR	SPRUCEHILL RD	300mm EASEMENT ON SHADYBROOK RD	570	150	D.I.	1975	1992		41	5
1992	PICKERING	SHADYBROOK DR	STROUDS LN	300mm EASEMENT ON SHADYBROOK RD	810	300	D.I.	1975	1992		96	6
1992	PICKERING	STORRINGTON ST	WALNUT LN	GLENANNA RD	650	200	D.I.	1976	1992		62	5
1992	PICKERING	STROUDS LN	ASPEN RD	SPRUCE HILL RD	290	300	D.I.	1976	1992		29	2
1992	PICKERING	STROUDS LN	WHITES RD	ASPEN RD	225	150	D.I.	1976	1992		21	1
1992	PICKERING	WALNUT LN	KINGSTON RD	GLENANNA RD	665	200	D.I.	1976	1992		58	4
1992	PICKERING	WOODRUFF CR	ASPEN RD	NEW ST	255	150	D.I.	1978	1992		15	1
1993	PICKERING	BICROFT CT	BOWLER DR	END OF CT (N/L)	170	200	D.I.	1977	1993		14	1
1993	PICKERING	BONITA AVE	FAIRPORT RD	APPLEVIEW RD	250	200	D.I.	1970	1988	1993	22	2
1993	PICKERING	BOWLER DR	FINCH AVE	GLENANNA RD	1,010	300	D.I.	1976	1993		98	7
1993	PICKERING	BREDA AVE	W/L @ SANOK DR	E/L @ SANOK DR	185	200	C.I.	1965	1993		16	1
1993	PICKERING	BRONTE SQ	GLENANNA RD	GLENDALE DR	850	200	D.I.	1976	1993		68	5
1993	PICKERING	CANBOROUGH CR	N/L @ BOWLER DR	S/L @ BOWLER DR	680	200	D.I.	1975	1993		61	5
1993	PICKERING	CHARLOTTE CIRCLE	W/L @ BRONTE SQ	E/L @ BRONTE SQ	165	150	D.I.	1978	1993		9	1
1993	PICKERING	CULROSS AVE	DIXIE RD	WALNUT LN	160	200	D.I.	1976	1993		12	1
1993	PICKERING	EDGE LN	EYER DR	END OF LN (S/L)	115	150	D.I.	1979	1993	2003	7	1
1993	PICKERING	EYER DR	DOWNLAND DR	OKLAHOMA DR	320	200	D.I.	1976	1993	2003	29	2
1993	PICKERING	EYER DR	OKLAHOMA DR	HILLCREST RD	675	150	D.I.	1979	1993	2003	60	6
1993	PICKERING	FOLEYET CR	N/L @ WALNUT LN	S/L @ WALNUT LN	390	150	D.I.	1976	1993		25	2
1993	PICKERING	GLENANNA RD	BOWLER DR	GLENDALE DR	185	200	D.I.	1976	1993		13	1
1993	PICKERING	GLENANNA RD	DIXIE RD	BOWLER DR	490	200	D.I.	1976	1993		43	3
1993	PICKERING	GLENDALE RD	GLENANNA RD	FINCH AVE	780	150	PVC (D.I.)	1967	1993		49	5
1993	PICKERING	GLOUCESTER SQ	120m N. OF GLOUCESTER SQ (S LEG)	210m N. OF GLOUCESTER SQ (S. LEG)	90	150	PVC (D.I.)	1988	1993		10	1
1993	PICKERING	GLOUCESTER SQ	BOWLER DR	210m W. OF BOWLER (TO PVC SEC.)	210	150	D.I.	1978	1993		17	2

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1993	PICKERING	GLOUCESTER SQ	GLOUCESTER SQ (S. LEG)	120m N. OF GLOUCESTER SQ (S. LEG)	120	150	D.I.	1977	1993		7	1
1993	PICKERING	GRANITE CT	130m E. OF IRONSTONE MNR	300m W. OF IRONSTONE MNR	430	300	D.I.	1981	1993		50	2
1993	PICKERING	HANWORTH CT	SANOK DR	END OF CT (N/L)	35	200	C.I.	1965	1993		5	0
1993	PICKERING	HENSALL CT	MALDEN CR	END OF CT (S/L)	110	150	D.I.	1979	1993		8	1
1993	PICKERING	IRONSTONE MNR	GRANITE CT	END OF MNR (N/L)	135	300	D.I.	1981	1993		17	1
1993	PICKERING	KITLEY AVE	DIXIE RD	BOWLER DR	220	150	D.I.	1977	1993		12	1
1993	PICKERING	LISTOWELL CR	GLENANNA RD	STORRINGTON ST	465	150	D.I.	1976	1993		33	3
1993	PICKERING	LUTTERWORTH CT	CANBOROUGH CR	END OF CT (W/L)	55	150	D.I.	1975	1993		4	0
1993	PICKERING	MALDEN CR	BOWLER DR	GLENANNA RD	760	200	D.I.	1976	1993		66	4
1993	PICKERING	MONTEAGLE CR	GLOUCESTER SQ	BOWLER DR	180	150	D.I.	1977	1993		13	1
1993	PICKERING	MORETTA AVE	W/L @ SANOK DR	E/L @ SANOK DR	190	150	C.I.	1968	1993		14	1
1993	PICKERING	MULMUR CT	BOWLER DR	END OF CT (E/L)	80	150	D.I.	1975	1993		7	1
1993	PICKERING	PINECREEK CT	KITLEY AVE	END OF CT (S/L)	95	150	D.I.	1981	1993		6	1
1993	PICKERING	ROUGEMOUNT DR	30m S. OF KINGSTON RD	55m S. OF KINGSTON RD	25	150	D.I.	1973	1993		4	1
1993	PICKERING	SANOK DR	W/L OF MORETTA AVE	SAMFORD AVE	490	150	C.I.	1968	1993		28	2
1993	PICKERING	SANOK DR	W/L OF MORETTA AVE	SANOK DR (S/L)	75	200	C.I.	1968	1993		12	0
1993	PICKERING	SHEPHARD AVE	OLD FOREST RD	ROSEBANK RD N	255	400	D.I.	1969	1993		40	2
1993	PICKERING	STONEBRIDGE LN	EYER DR	DOWNLAND DR	485	150	D.I.	1977	1993	2003	40	4
1993	PICKERING	WOLLASTON CT	WALNUT AVE	100m W. OF WALNUT AVE	100	150	D.I.	1976	1993		8	1
1996	PICKERING	HILLCREST RD	HILLVIEW CR	WEST SHORE BLVD	1,100	200	C.I.	1965	1996		99	8
1996	PICKERING	KINGSTON RD	ALTONA RD	ROUGEMOUNT DR	255	500	D.I.	1970	1996		20	2
1996	PICKERING	PARK CR	CLIFFVIEW AVE	WEST SHORE BLVD	810	200	C.I.	1964	1996		53	6
1996	PICKERING	SURF AVE	MARKSBURY RD	WEST SHORE BLVD	100	150	C.I.	1964	1996		8	1
1996	PICKERING	SURF AVE	PARK CR	MARKSBURY RD	100	150	C.I.	1964	1996		8	1
1996	PICKERING	WEST SHORE BLVD	HILLCREST RD	BEACHPOINT PROMENADE	1,300	250	C.I.	1960	1996		132	9
1996	PICKERING	WEST SHORE BLVD	VISTULA DR	HILLCREST RD	140	400	PVC (C.I.)	1999	1996		17	1
1997	PICKERING	BATORY AVE	BREEZY DR	VISTULA DR	485	200	C.I.	1965	1997		46	3
1997	PICKERING	BAYSHORE CT	BATORY AVE	END OF CT (E/L)	90	200	C.I.	1965	1997		8	1
1997	PICKERING	BREEZY DR	WEST SHORE BLVD	OKLAHOMA DR	595	200	C.I.	1964	1997		55	4
1997	PICKERING	CECYLIA CT	WEST SHORE BLVD	END OF CT (N/L)	150	150	C.I.	1965	1997		15	1
1997	PICKERING	ESSA CR	BATORY AVE	BREEZY DR	530	150	PVC (C.I.)	1964	1997		45	3
1997	PICKERING	LYNX AVE	WEST SHORE BLVD	BATORY AVE	155	150	C.I.	1965	1997		14	1
1997	PICKERING	MARINET CR	W/L @ HILLCREST RD	E/L @ HILLCREST RD	490	200	C.I.	1965	1997		50	3
1997	PICKERING	OLIVA ST	LYNX AVE	BREEZY DR	265	150	C.I.	1960	1997		23	2
1997	PICKERING	SHEPHARD AVE	OLD FOREST RD	ALTONA RD	540	400	D.I.	1969	1997		82	3
1997	PICKERING	TIMMINS GARDENS	VISTULA DR	BATORY AVE	360	150	C.I.	1965	1997		31	2
1997	PICKERING	VISTULA DR	BATORY AVE	WEST SHORE BLVD	1,040	200	C.I.	1965	1997		91	7
1997	PICKERING	WOODVIEW AVE	PINEGROVE AVE	270m N. OF PINEGROVE AVE	270	200	D.I.	1978	1997		21	2
1998	PICKERING	ANNLAND ST	COMMERCE ST	SHEARER LN	145	200	C.I.	1965	1998		16	1
1998	PICKERING	ANNLAND ST	LIVERPOOL RD	COMMERCE ST	420	150	C.I.	1965	1998		35	4
1998	PICKERING	ANNLAND ST	SHEARER LN	KROSNO BLVD	145	300	C.I.	1965	1998		16	1
1998	PICKERING	DOUGLAS AVE	CHAPLEAU AVE	BROWNING AVE	595	200	C.I.	1960	1998		65	4
1998	PICKERING	DOUGLAS AVE	RADOM ST	CHAPLEAU AVE	80	150	C.I.	1969	1998		8	1
1998	PICKERING	KROSNO BLVD	ALLYSUM ST	ANNLAND ST	535	200	C.I.	1960	1998		81	4

TABLE 1

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY

December 2007



YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1998	PICKERING	KROSNO BLVD	ANNLAND ST	LIVERPOOL RD	320	300	C.I.	1960	1998		32	3
1998	PICKERING	KROSNO BLVD	BAYLY ST	TATRA DR	120	200	C.I.	1960	1998		12	2
1998	PICKERING	KROSNO BLVD	BRONWEN LN	REYTAN BLVD	70	200	C.I.	1960	1998		10	0
1998	PICKERING	KROSNO BLVD	FORDON AVE	MORDON LN	70	150	C.I.	1960	1998		8	1
1998	PICKERING	KROSNO BLVD	MORDON LN	BRONWEN LN	335	300	C.I.	1960	1998		40	2
1998	PICKERING	KROSNO BLVD	REYTAN BLVD	ALLYSUM ST	80	300	C.I.	1960	1998		9	1
1998	PICKERING	KROSNO BLVD	TATRA DR	FORDON AVE	85	250	C.I.	1960	1998		11	0
1998	PICKERING	MARKSBURY RD	VICKI DR	PARK CR	300	150	C.I.	1965	1998		25	3
1998	PICKERING	MODLIN RD	KROSNO BLVD	TATRA DR	760	200	C.I.	1960	1998		76	5
1998	PICKERING	SUNRISE AVE	BREEZY DR	WEST SHORE BLVD	395	200	C.I.	1965	1998		36	3
1999	PICKERING	ANTONIO ST	N/L @ GRENOBLE BLVD	E/L @ GRENOBLE BLVD	400	150	C.I.	1960	1999		40	3
1999	PICKERING	BEM AVE	GARVOLIN AVE	S/L @ ZATOR AVE	485	150	C.I.	1964	1999		44	4
1999	PICKERING	BRIXTON LN	MODLIN RD	BEM AVE	60	200	C.I.	1960	1999		7	0
1999	PICKERING	BRONWEN LN	ZATOR AVE	KROSNO BLVD	60	200	C.I.	1960	1999		7	1
1999	PICKERING	FOXGLOVE AVE	ANNLAND ST	HEWSON DR	65	200	C.I.	1960	1999		8	0
1999	PICKERING	FOXGLOVE AVE	HEWSON DR	END OF AVE (W/L)	110	150	C.I.	1960	1999		11	1
1999	PICKERING	GRENOBLE BLVD	S/L @ NAROCH BLVD	FUSCHIA LN	345	150	C.I.	1960	1999		37	2
1999	PICKERING	HELEN CR	MODLIN RD	END OF CR (S/L)	145	150	C.I.	1960	1999		13	1
1999	PICKERING	HEWSON DR	ANNLAND ST	FOXGLOVE AVE	195	150	C.I.	1960	1999		16	2
1999	PICKERING	LUNA CT	LIVERPOOL RD	END OF CT (E/L)	75	150	C.I.	1982	1999		7	1
1999	PICKERING	MIRIAM RD	N/L @ ZATOR AVE	S/L @ ZATOR AVE	285	150	C.I.	1960	1999		26	2
1999	PICKERING	NAROCH BLVD	TATRA DR	MODLIN RD	745	200	C.I.	1965	1999		77	5
1999	PICKERING	POPRAD AVE	210m E. OF SANGRO LN	END OF AVE (W/L)	350	150	C.I.	1960	1999		30	3
1999	PICKERING	POPRAD AVE	TATRA DR	25m N. OF TATRA DR	25	200	C.I.	1960	1999		4	1
1999	PICKERING	SANGRO LN	TATRA DR	POPRAD AVE	60	200	C.I.	1960	1999		7	1
1999	PICKERING	TATRA DR	LIVERPOOL RD	KROSNO BLVD	545	250	C.I.	1960	1999		65	4
1999	PICKERING	ZATOR AVE	KROSNO BLVD	BEM AVE	550	150	C.I.	1960	1999		52	4
2000	PICKERING	GRENOBLE BLVD	FUSCHIA LN	N/L @ NAROCH BLVD	230	200	C.I.	1960	2000		26	1
2000	PICKERING	POPRAD AVE	25m N. OF TATRA DR	210m E. OF SANGRO LN	95	200	C.I.	1960	2000		8	0
2001	PICKERING	CHIPMUNK ST	SUNRISE AVE	OKLAHOMA DR	150	200	C.I.	1965	2001		16	1
2001	PICKERING	FINCH AVE	GLENDALE DR	MAPLE RIDGE DR	260	300	D.I.	1981	2001		20	2
2001	PICKERING	HILLVIEW CR	PARK CR	VICKI DR	415	150	C.I.	1964	2001		14	1
2001	PICKERING	LIVERPOOL RD	WHARF ST	25m N. OF BROADVIEW ST	200	200	C.I.	1964	2001		34	2
2001	PICKERING	OKLAHOMA DR	BREEZY DR	WEST SHORE BLVD	395	200	C.I.	1965	2001		29	3
2001	PICKERING	VICKI DR	WEST SHORE BLVD	HILLCREST RD	355	200	C.I.	1964	2001		19	2
2001	PICKERING	VICTORY DR	PARK CR	70m N. OF PARK CR	70	200	C.I.	1965	2001		37	3
2001	PICKERING	VICTORY DR	VICKI DR	35m S. OF VICKI DR	35	200	C.I.	1965	2001		39	3
2002	PICKERING	EAGLEVIEW DR	GLENANNA RD	HUNTSMILL DR	415	150	D.I.	1984	2002		35	3
2002	PICKERING	HUNTSMILL DR	GLENANNA RD	EAGLEVIEW DR	330	200	D.I.	1984	2002		31	2
2002	PICKERING	MONTCASTLE CR	N/L @ HUNTSMILL DR	165m E. OF S/L OF HUNTSMILL DR	580	150	D.I.	1984	2002		51	3
2002	PICKERING	REDBIRD CR	N/L @ HUNTSMILL DR	S/L @ HUNTSMILL DR	460	150	D.I.	1984	2002		42	3
2002	PICKERING	SILVER SPRUCE DR	GLENANNA RD	EAGLEVIEW DR	300	150	D.I.	1984	2002		24	2
2003	PICKERING	BROOKSHIRE SQ	GLENANNA RD	250m S. OF GLENANNA RD	250	150	D.I.	1986	2003		19	2
2003	PICKERING	EDGE LN	EYER DR	END OF LN (S/L)	15	150	D.I.	1979	1993	2003	1	0

TABLE 1

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY

December 2007



YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2003	PICKERING	EYER DR	DOWNLAND DR	OKLAHOMA DR	320	200	D.I.	1976	1993	2003	32	2
2003	PICKERING	EYER DR	OKLAHOMA DR	HILLCREST RD	675	150	D.I.	1979	1993	2003	52	3
2003	PICKERING	FINCH AVE	DARWIN DR	120m W. OF SPRUCE HILL RD	325	250	D.I.	1968	2003		38	1
2003	PICKERING	GLENANNA RD	FAIRPORT RD	BROOKSHIRE SQ	285	300	D.I.	1984	2003		36	2
2003	PICKERING	SANDSTONE MNR	GRANITE CT	END OF MNR (S/L)	295	300	D.I.	1981	1992	2003	34	2
2003	PICKERING	STONEBRIDGE LN	EYER DR	DOWNLAND DR	485	150	D.I.	1977	1993	2003	47	3
2004	PICKERING	ALDERWOOD CT	COLMAR AVE	END OF CT (S/L)	100	150	C.I.	1960	2004		9	1
2004	PICKERING	BAYLY ST	200m E. OF WEST SHORE BLVD	665m E. OF WEST SHORE BLVD	465	350	C.I.	1965	2004		65	4
2004	PICKERING	BROADVIEW ST	LIVERPOOL RD	ANNLAND ST	270	150	C.I.	1960	2004		24	1
2004	PICKERING	COLMAR AVE	COLMAR AVE	BALATON AVE	365	300	C.I.	1960	2004		40	3
2004	PICKERING	CORTEZ AVE	COLMAR AVE	BALATON AVE	220	150	C.I.	1960	2004		22	2
2004	PICKERING	KINGFISHER DR	COLMAR AVE	BALATON AVE	235	200	C.I.	1960	2004		22	2
2004	PICKERING	KINGSTON RD	STEEPLE HILL	60m E. OF STEEPLE HILL	60	400	D.I.	1977	2004		9	1
2004	PICKERING	LUBLIN AVE	PARKHAM CR	ALYSSUM CR	550	300	C.I.	1960	2004		66	4
2004	PICKERING	PARKHAM CR	COLMAR AVE	SANDY BEACH RD	293	150	C.I.	1967	2004		29	3
2004	PICKERING	PLEASANT ST	ANNLAND ST	COMMERCE ST	145	150	C.I.	1965	2004		12	1
2005	PICKERING	SALK RD	BAYLY ST	END OF RD (N/L)	475	200	D.I.	1969	1989	2005	41	3
2005	PICKERING	WHITES RD.	SHEPARD DR.	SHADYBROOK DR. EASEMENT	60	300	D.I.	1968	1991	2005	6	1
2007	PICKERING	BRIAN CT	BROADGREEN RD	N. END OF STREET	95	150	D.I.	1978	2007		6	1
2007	PICKERING	BROADGREEN RD	CREEKVIEW CIR	DOWNLAND DR	725	150	D.I.	1977	2007		67	5
2007	PICKERING	CARMELLO CT	CREEKVIEW CIR	W. End of Street	125	150	D.I.	1977	2007		11	1
2007	PICKERING	CREEKVIEW CIR	DOWNLAND DR	DOWNLAND DR	820	150	D.I.	1977	2007		79	5
2007	PICKERING	DOWNLAND DR	WHITES RD	BROADGREEN RD	440	200	D.I.	1977	2007		40	3
2007	PICKERING	PETTICOAT LN	CREEKVIEW CIR	BROADGREEN RD	120	150	D.I.	1977	2007		11	1
2007	PICKERING	VICTOR CT	BROADGREEN RD	N. END OF STREET	50	150	D.I.	1978	2007		4	1
2007	PICKERING	COMMERCE ST	ANNLAND RD	LIVERPOOL RD	328	200	C.I.	1965	2007		28	2
2007	PICKERING	ILONA PARK RD	LIVERPOOL RD	LIVERPOOL RD	430	150	C.I.	1960	2007		37	3
Pickering Totals					72,559						6,221	479
1995	PORT PERRY	REACH ST	BIGELOW ST	215m W. OF OLD SIMCOE RD	550	200	D.I.	1979	1995		52	5
1995	PORT PERRY	SIMCOE ST (REG RD 2)	FOURTH CONC RD	215m S. OF FOURTH CONC RD	215	400	D.I.	1978	1995		36	3
1995	PORT PERRY	SIMCOE ST (REG RD 2)	FOURTH CONC RD	OYLER DR	1,390	400	D.I.	1978	1995		228	29
1995	PORT PERRY	SIMCOE ST (REG RD 2)	OYLER DR	60m N. OF GREENWAY BLVD	640	400	D.I.	1978	1995		109	13
1996	PORT PERRY	APPLEWOOD CR	N/L @ ORCHARD RD	118m W. OF ORCHARD RD	118	150	D.I.	1975	1996		9	1
1996	PORT PERRY	BLOSSOM CT	ORCHARD RD	END OF CT (W/L)	235	150	D.I.	1977	1996		16	2
1996	PORT PERRY	LAKEVIEW DR	SIMCOE ST	85m E. OF SIMCOE ST	85	200	D.I.	1977	1996		11	1
1996	PORT PERRY	ORCHARD RD	W/L @ LAKEVIEW DR	E/L @ LAKEVIEW DR	610	150	D.I.	1977	1996		44	4
1996	PORT PERRY	SIMCOE ST	360m S. OF FOURTH CONC RD	355m N. OF FOURTH CONC RD	715	400	D.I.	1978	1996		146	11
1996	PORT PERRY	VAN EDWARD DR	SIMCOE ST	END OF DR (E/L)	175	200	D.I.	1981	1996		17	2
1996	PORT PERRY	WALSH DR	OLD SIMCOE RD	QUEEN ST	505	200	D.I.	1979	1996		44	3
Port Perry Totals					5,238						712	74
1996	UXBRIDGE	SPRUCE ST	BROCK ST	KING ST	142	200	D.I.	1978	1996		13	1
2001	UXBRIDGE	COLONEL SHARPE CR	QUAKER VILLAGE DR	30m W. OF QUAKER VILLAGE DR	30	400	D.I.	1980	2001		7	1

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REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY

December 2007



YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2001	UXBRIDGE	QUAKER VILLAGE DR	COLONEL SHARPE CR	220m S. OF COLONEL SHARPE CR	220	400	D.I.	1980	2001		33	2
2002	UXBRIDGE	QUAKER VILLAGE DR	BROCK ST (REG RD 8)	85m N. OF BROCK ST (REG RD 8)	85	400	D.I.	1980	2002		16	1
2002	UXBRIDGE	QUAKER VILLAGE DR	WIDDFIELD DR	115m N. OF WIDDFIELD DR	165	400	D.I.	1980	2002		14	0
Uxbridge Totals					642						83	5
1993	WHITBY	MASON DR	150mm EASEMENT ON MASON DR	60m S. OF 150mm EASEMENT	60	150	C.I.	1974	1993		4	0
1993	WHITBY	MASON DR	150mm EASEMENT ON MASON DR	90m W. OF 150mm EASEMENT	90	150	D.I.	1970	1993		4	0
1993	WHITBY	MASON DR	DUNLOP ST	145m N. OF DUNLOP ST	145	150	D.I.	1970	1993		10	0
1996	WHITBY	COLBORNE ST	ATHOL ST	HICKORY ST	150	150	D.I.	1978	1996		11	1
1996	WHITBY	CROCUS CR	LILAC TERRACE	HUTCHINSON AVE	75	150	PVC (C.I.)	1953	1996		5	1
1996	WHITBY	CROCUS CR	LUPIN DR	LILAC TERRACE	280	150	C.I.	1953	1996		20	1
1996	WHITBY	DUBLIN ST	LUPIN DR	ROSEDALE DR	295	150	D.I.	1970	1996		22	2
1996	WHITBY	DUNLOP ST	LUPIN DR	DOVEDALE DR	280	150	C.I.	1954	1996		22	2
1996	WHITBY	ELIZABETH CR	CRAWFORTH ST	MANNING RD	720	150	D.I.	1970	1996		46	3
1996	WHITBY	HUTCHINSON AVE	LUPIN DR	DOVEDALE DR	275	150	PVC (C.I.)	2002	1996		19	2
1996	WHITBY	LILAC TERRACE	LUPIN DR	CROCUS CR	175	150	C.I.	1953	1996		12	1
1996	WHITBY	LUPIN DR	HUTCHINSON ST	DUNDAS ST	585	150	C.I.	1954	1996		39	3
1996	WHITBY	LUPIN DR	HUTCHINSON ST	HARDING ST	375	200	D.I.	1970	1996		39	3
1996	WHITBY	ROSEDALE ST	HARDING ST	S/L OF DOVEDALE ST	315	200	D.I.	1970	1996		28	2
1996	WHITBY	ROSEDALE ST	S/L OF DOVEDALE ST	N/L OF DOVEDALE ST	490	150	C.I.	1955	1996		33	3
1998	WHITBY	BYRON ST S	160m N. OF VICTORIA ST	200m N. OF VICTORIA ST	40	300	C.I.	1974	1998		4	1
1998	WHITBY	BYRON ST S	VICTORIA ST	160m N. OF VICTORIA ST	160	150	D.I.	1974	1998		13	0
1998	WHITBY	HICKORY ST	HWY #2	MARY ST	195	150	D.I.	1980	1998		14	1
1998	WHITBY	HWY #2 (DUNDAS ST W)	120m E. OF HALLS RD N	265m W. OF CORONATION RD	440	200	PVC (D.I.)	2002	1998		24	2
1998	WHITBY	THICKSON RD S	WILLIAM SMITH DR	335m N. OF WILLIAM SMITH DR	335	300	D.I.	1973	1998		41	3
1999	WHITBY	GORDON ST	VICTORIA ST	620m N. OF VICTORIA ST	620	500	D.I.	1974	1999		105	5
2000	WHITBY	ANNES ST (EASEMENT)	BURNS ST	200m S. OF BURNS ST (HWY 401)	200	500	D.I.	1974	2000		41	2
2000	WHITBY	CHOPIN CT	DAWSON ST	END OF CT (S/L)	145	150	D.I.	1974	2000		11	1
2000	WHITBY	DAWSON ST	MICHAEL BLVD	ANNES ST	290	200	D.I.	1975	2000		26	2
2000	WHITBY	EVERGREEN DR	CANADIAN OAKS DR	S/L @ GADSBY DR	520	200	D.I.	1977	2000		38	3
2000	WHITBY	GADSBY DR	EVERGREEN DR	GARRARD RD	400	150	D.I.	1977	2000		35	3
2000	WHITBY	GERSHWIN CT	DAWSON ST	END OF CT (S/L)	145	150	D.I.	1973	2000		11	1
2000	WHITBY	GRATH CR	W/L @ GADSBY DR	E/L @ GADSBY DR	380	150	D.I.	1979	2000		14	1
2000	WHITBY	HAZELWOOD DR	135m N. OF MANNING RD	30m N. OF EVERGREEN DR	330	150	D.I.	1973	2000		22	2
2000	WHITBY	LLOYD ST	SCOTT ST	GARRARD RD	200	200	D.I.	1972	2000		19	2
2000	WHITBY	MICHAEL BLVD	BURNS ST	45m N. OF CARTER CR	330	450	D.I.	1973	2000		34	2
2000	WHITBY	SCOTT ST	LLOYD ST	DUNDAS ST	145	150	D.I.	1973	2000		12	1
2000	WHITBY	SCOTT ST	LLOYD ST	MANNING RD	835	200	D.I.	1973	2000		78	5
2000	WHITBY	SHANNON CT	DAWSON ST	END OF CT (S/L)	145	150	D.I.	1975	2000		11	1
2000	WHITBY	TOMS CT	GADSBY DR	END OF CT (E/L)	50	150	D.I.	1973	2000		3	0
2001	WHITBY	MAPLE ST W	CENTRE ST N	40m E. OF BYRON ST	130	300	D.I.	1976	2001		15	1
2001	WHITBY	PEEL ST	TRENT ST	75m N. OF ONTARIO ST	315	150	C.I.	1950	2001		29	2
2001	WHITBY	TRENT ST	ATHOL ST	55m E. OF ATHOL ST	55	150	D.I.	1978	2001		6	0
Whitby Totals					10,715						920	65

TABLE 1

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY

December 2007

	Reconstructed Streets
	Reprotected Streets

YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1983	AJAX	JACWIN DR	CARWIN CR	CLARELYN BLVD	170	150	PVC (D.I.)	1968	1983		16	1
					170						16	1
1984	PICKERING	APPLEVIEW RD	BONITA AVE	DUNBARTON RD	1,050	150	D.I.	1970	1984		74	6
1984	PICKERING	FINCH AVE	LIVERPOOL RD	VALLEYFARM RD	795	200	D.I.	1968	1984		68	6
					1,845						142	12
1985	AJAX	LEWIN CR	THE LAKE DRIVEWAY E	McCLARNAN RD	435	150	D.I.	1973	1985	2005	32	3
1985	PICKERING	ALTONA RD	SHEPPARD AVE	35m S. OF FIDDLERS CT	469	200	D.I.	1970	1985		14	1
1985	PICKERING	ROUGEMOUNT DR	55m N. OF ROUGE HILL CT	ALTONA RD	795	150	PVC (D.I.)	1988	1985		43	0
1985	PICKERING	ROUGEMOUNT DR	KINGSTON RD	55m N. OF ROUGE HILL CT	250	150	D.I.	1970	1985		14	0
					1,949						103	4
1986	AJAX	CARWIN CR	MILL ST	MARWIN RD	360	150	PVC (D.I.)	1968	1986		24	3
1986	AJAX	CLARELYN BLVD	JACWIN DR	MILL ST	205	150	PVC (D.I.)	1968	1986		15	1
1986	AJAX	COWLING CR	THE LAKE DRIVEWAY E	LAWRIE RD	385	150	D.I.	1970	1986	2005	28	3
1986	AJAX	ETHLYN CT	CLARELYN BLVD	END OF CT (S/L)	42	150	PVC (D.I.)	1968	1986		4	1
1986	AJAX	JALLAN DR	JACWIN DR	CARWIN CR	245	150	PVC (D.I.)	1968	1986		17	1
1986	AJAX	LAWRIE RD	THE LAKE DRIVEWAY E	CLOVER RIDGE DR E	370	150	D.I.	1970	1986	2005	24	3
1986	AJAX	MARWIN RD	130m N. OF JACWIN DR	END OF RD (N/L)	160	150	PVC (D.I.)	1972	1986		11	1
1986	AJAX	MARWIN RD	JACWIN DR	130m N. OF JACWIN DR	130	150	D.I.	1970	1986		11	1
1986	AJAX	McCLARNAN RD	THE LAKE DRIVEWAY E	CLOVER RIDGE DR E	410	150	D.I.	1970	1986		28	3
					2,307						162	17
1987	AJAX	ARCHER DR	N/L @ BRYANT RD	S/L @ BRYANT RD	370	150	D.I.	1968	1987		26	2
1987	AJAX	CLARK RD	CLOVER RIDGE DR E	GREGORY RD	437	200	D.I.	1972	1987		29	3
1987	AJAX	DREYER DR W	PICKERING BEACH RD	LAMBARD CR (W/L)	650	150	D.I.	1969	1987		30	4
1987	AJAX	GREGORY RD	CLOVER RIDGE DR E	CLARK RD	1,037	150	C.I.	1969	1987		63	5
1987	AJAX	HARWOOD AVE	EMPEROR ST	CLEMENTS RD	340	300	D.I.	1970	1987		36	3
1987	AJAX	HARWOOD AVE	HARWOOD AVE	148m W. ON HOSPITAL FIRE LINE	148	150	D.I.	1970	1987		7	1
1987	BOWMANVILLE	OLD HWY #2	WAVERLY RD	CHAPEL ST	100	150	D.I.	1969	1987		15	1
1987	BOWMANVILLE	WAVERLY RD	COLEMAN ST	LAWRENCE CR	510	300	D.I.	1972	1987		60	4
1987	BOWMANVILLE	WAVERLY RD	OLD HWY #2	COLEMAN ST	125	150	C.I.	1972	1987		15	1
1987	BOWMANVILLE	WAVERLY RD	BASELINE RD W	SPRY AVE	370	300	D.I.	1972	1987		46	1
1987	OSHAWA	FOX ST	CHAMPLAIN AVE	N/L OF W/M	498	200	D.I.	1972	1987		41	2
1987	PICKERING	BAYLY ST	215m E. OF BROCK RD	190m E. OF TOY AVE	240	300	D.I.	1973	1987		14	2
1987	PICKERING	BAYLY ST	BROCK RD	215m E. OF BROCK RD	215	300	C.I.	1973	1987		13	1
1987	PICKERING	GLENDALE DR	GLENANNA RD	KINGSTON RD	341	150	PVC (D.I.)	1994	1987		23	2
					5,381						418	32
1988	AJAX	BAKER RD	DREYER DR E	CLEMENTS DR E	420	150	D.I.	1969	1988		29	3
1988	AJAX	CALLEN CT	CRAWFORD DR	END OF CT (N/L)	80	150	D.I.	1969	1988		6	0
1988	AJAX	CRAWFORD DR	CLOVER RIDGE DR E	400mm EASEMENT	340	400	D.I.	1969	1988		46	2
1988	AJAX	CRAWFORD DR	GREGORY RD	400mm EASEMENT	440	150	D.I.	1969	1988		28	2

TABLE 2



**Region of Durham – Works Department
2007 ANNUAL REPORT
CATHODIC PROTECTION PROGRAMS (1983-2007)**

TABLE 2

CATHODIC PROTECTION INVENTORY–BY INSTALLATION YEAR

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY

December 2007

	Reconstructed Streets
	Reprotected Streets

YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1988	AJAX	DORLING AVE	CLOVER RIDGE DR E	HARLAND CR	85	150	D.I.	1970	1988		5	1
1988	AJAX	HARLAND CR	DREYER DR W	END OF CR	700	150	D.I.	1970	1988		54	3
1988	PICKERING	BONITA AVE	FAIRPORT RD	APPLEVIEW RD	270	200	D.I.	1970	1988	1993	24	2
1988	PICKERING	FAIRPORT RD	DUNBARTON RD	STROUDS LN	790	250	PVC (D.I.)	1995	1988		76	4
1988	PICKERING	GLENGROVE RD	KINGSTON RD	GLENVIEW RD	430	150	PVC (D.I.)	1989	1988		27	2
1988	PICKERING	GLENVIEW RD	S/L @ GLENGROVE RD	N/L @ GLENGROVE RD	340	150	PVC (D.I.)	1989	1988		23	1
					3,895						318	20
1989	AJAX	CLOVER RIDGE DR E	CRAWFORD DR	DREYER DR W	600	200	D.I.	1970	1989		49	7
1989	AJAX	CLOVER RIDGE DR E	HARWOOD AVE	CRAWFORD DR	500	300	D.I.	1970	1989	2005	48	3
1989	AJAX	HILLS RD	CLEMENTS RD	GAMON ST	500	150	D.I.	1969	1989		35	1
1989	AJAX	THE LAKE DRIVEWAY E	HARWOOD AVE	LEWIN CR	500	150	PVC (D.I.)	1999	1989		35	3
1989	AJAX	THE LAKE DRIVEWAY E	LEWIN CR	McCLARNAN RD	125	450	AC (D.I.)	1995	1989		18	1
1989	PICKERING	OLD FOREST RD	SHEPARD AVE	ROSEBANK RD	900	150	D.I.	1970	1989		41	2
1989	PICKERING	PLUMBER ST	SALK RD	BROCK RD	240	150	D.I.	1972	1989		14	2
1989	PICKERING	ROSEBANK RD	140m N. OF FOXWOOD TRAIL	FINCH AVE	1,500	150	PVC (D.I.)	1994	1989		102	6
1989	PICKERING	ROSEBANK RD	FOXWOOD TRAIL	140m N. OF FOXWOOD TRAIL	140	400	C.I.	1969	1989		10	0
1989	PICKERING	SALK RD	BAYLY ST	END OF RD (N/L)	391	200	D.I.	1969	1989	2005	25	1
1989	PICKERING	SPRUCE HILL RD	SHADY BROOK RD	END OF RD (S/L)	220	150	D.I.	1976	1989		17	1
1989	PICKERING	TOY AVE	BAYLY ST	END OF AVE (N/L)	450	200	D.I.	1965	1989		31	2
1989	PICKERING	WHITES RD	FINCH AVE	300mm EASEMENT @ SHADYBROOK DR	1,800	200	D.I.	1976	1989		67	14
					7,866						492	43
1990	AJAX	AGATE RD	RANDS RD	SLATER CR S/L	300	150	D.I.	1975	1990		21	2
1990	AJAX	BANNER CR	RANDS RD	FINLEY AVE	410	150	D.I.	1975	1990		27	4
1990	AJAX	EASTON CT	RANDS RD	END OF CT (S/L)	240	150	D.I.	1975	1990		11	2
1990	AJAX	RANDS RD	FINLEY AVE	HARBORD CR	715	150	D.I.	1975	1990		38	4
1990	AJAX	SLATER CR	RANDS RD	N/L @ AGATE RD	780	150	D.I.	1975	1990		55	5
1990	AJAX	SWANSTON CR	W/L @ RANDS RD	E/L @ RANDS RD	680	150	D.I.	1975	1990		46	5
1990	BOWMANVILLE	HOBBS DR	N/L @ SIMPSON RD	DEERPARK CR (N/L)	495	300	D.I.	1974	1990		71	4
1990	PICKERING	PINEGROVE AVE	E/L @ WOODVIEW AVE	ROCKWOOD DR	130	250	D.I.	1978	1990		1	1
1990	PICKERING	PINEGROVE AVE	ROCKWOOD DR	END OF AVE (S/L)	1,050	150	D.I.	1978	1990		82	7
1990	PICKERING	SANDY BEACH RD	165m S. OF ALYSSUM ST	315m N. OF ALYSSUM ST	480	300	D.I.	1969	1990		35	3
1990	PICKERING	WOODVIEW AVE	100m N. OF TWYNN RIVERS DR	PINEGROVE AVE	900	250	D.I.	1969	1990		65	6
1990	PICKERING	WOODVIEW AVE	TWYNN RIVERS DR	330m S. OF TWYNN RIVERS DR	330	150	D.I.	1969	1990		20	3
					6,510						472	46
1991	AJAX	BOLLAND CR	N/L @ CLOVER RIDGE DR W	S/L @ CLOVER RIDGE DR W	807	150	D.I.	1974	1991	2005	71	6
1991	AJAX	BURNINGHAM CR	W/L @ LINCOLN ST	E/L @ LINCOLN ST	400	150	PVC (D.I.)	1972	1991		23	3
1991	AJAX	CLOVER RIDGE DR W	BOLLAND CR (N/L)	HARWOOD AVE	460	300	D.I.	1973	1991	2005	19	2
1991	AJAX	CLOVER RIDGE DR W	BOLLAND CR (N/L)	THE THE LAKE DRIVEWAY E	190	250	D.I.	1973	1991		50	3
1991	AJAX	DANTON CT	CLOVER RIDGE DR W	END OF CT (N/L)	217	150	D.I.	1974	1991		14	2
1991	AJAX	DINGLEY CT	LINCOLN ST	END OF CT (N/L)	100	150	PVC (D.I.)	1972	1991		7	1
1991	AJAX	HARWOOD AVE	DREYER DR W	CLEMENTS RD E	420	400	D.I.	1973	1991	2005	52	3

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YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1991	AJAX	HARWOOD AVE	EMPEROR ST	FALBY CT	300	300	D.I.	1973	1991		22	2
1991	AJAX	SIMPSON AVE	EMPEROR ST	CLEMENTS RD E	236	150	D.I.	1961	1991		18	2
1991	BOWMANVILLE	ASHDALE CR	W/L @ HOBBS DR	E/L @ HOBBS DR	307	150	D.I.	1974	1991		22	2
1991	BOWMANVILLE	DEERPARK CR	N/L @ HOBBS DR	S/L @ HOBBS DR	510	150	D.I.	1974	1991		32	3
1991	BOWMANVILLE	HAILEY CT	HOBBS DR	END OF CT (E/L)	40	150	D.I.	1979	1991		3	1
1991	BOWMANVILLE	HOBBS DR	S/L @ SIMPSON RD	DEERPARK CR (N/L)	415	300	D.I.	1974	1991		38	2
1991	BOWMANVILLE	MORGANDALE CR	W/L @ HOBBS DR	E/L @ HOBBS DR	250	150	D.I.	1974	1991		8	2
1991	BOWMANVILLE	WILDE CT	HOBBS DR	END OF CT (E/L)	30	150	D.I.	1979	1991		2	1
1991	OSHAWA	ANNAPOLIS AVE	LANARK DR	WAVERLY ST N	86	200	D.I.	1973	1991		9	1
1991	OSHAWA	LANARK DR	ANNAPOLIS AVE	WAVERLY ST N	310	150	D.I.	1975	1991	2003	21	2
1991	OSHAWA	WAVERLY ST N	150mm EASEMENT ON WAVERLY ST N	45m S. OF FIFE CT	229	150	D.I.	1969	1991		13	2
1991	OSHAWA	WAVERLY ST N	ROSSLAND RD W	150mm EASEMENT ON WAVERLY ST N	185	200	D.I.	1969	1991	2005	16	1
1991	PICKERING	BRANDS CT	FIELDLIGHT BLVD	END OF CT (E/L)	200	150	D.I.	1976	1991		13	1
1991	PICKERING	BROCK RD	BAYLY ST	PLUMBER ST	226	300	D.I.	1969	1991		31	3
1991	PICKERING	EVERTON ST	ROSEFIELD RD	END OF ST (W/L)	200	150	D.I.	1976	1991		12	1
1991	PICKERING	FAYLEE CR	N/L @ FIELDLIGHT BLVD	S/L @ FIELDLIGHT BLVD	490	150	D.I.	1976	1991		33	3
1991	PICKERING	FIELDLIGHT BLVD	GLENANNA RD	ROSEFIELD RD	560	200	D.I.	1976	1991		47	3
1991	PICKERING	FIELDLIGHT BLVD	ROSEFIELD RD	LODGE RD	300	150	D.I.	1976	1991		15	1
1991	PICKERING	LODGE RD	W/L @ POPPY LN	E/L @ POPPY LN	400	150	D.I.	1976	1991		25	2
1991	PICKERING	MEMORY LN	PENNY LN	EVERTON ST	144	150	D.I.	1976	1991		10	1
1991	PICKERING	NOTION RD	ORCHARD RD	KINGSTON RD	557	300	D.I.	1981	1991		66	4
1991	PICKERING	POPPY LANE	FIELDLIGHT BLVD	E/L @ LODGE RD	300	150	D.I.	1976	1991		14	2
1991	PICKERING	ROSEFIELD RD	FINCH AVE	FIELDLIGHT BLVD	310	200	D.I.	1976	1991		27	2
1991	PICKERING	ROSEFIELD RD	GLENVIEW RD	FIELDLIGHT BLVD	310	150	D.I.	1976	1991		21	2
					9,489						754	66
1992	BOWMANVILLE	BASELINE RD	WAVERLY RD	400m W. OF WAVERLY RD	800	300	D.I.	1970	1992	2005	103	6
1992	BOWMANVILLE	MARTIN RD	BASELINE RD	PRESTONWAY DR	685	200	PVC (D.I.)	1986	1992		52	5
1992	OSHAWA	AYR CT	WAVERLY ST N	END OF CT (E/L)	40	100	D.I.	1970	1992		2	0
1992	OSHAWA	BERWICK CR	N/L @ WAVERLY ST N	S/L @ WAVERLY ST N	370	150	D.I.	1969	1992	2005	25	2
1992	OSHAWA	FIFE CT	WAVERLY ST N	END OF CT (E/L)	50	100	PVC (D.I.)	1995	1992		2	0
1992	OSHAWA	GREENOCH CT	LANARK DR	END OF CT (W/L)	40	100	D.I.	1970	1992	2003	5	0
1992	OSHAWA	HARCOURT DR	FLORRELT DR	HARCOURT CT	90	150	D.I.	1968	1992	2005	7	1
1992	OSHAWA	HARCOURT DR	OLIVE AVE	FLORRELT DR	115	150	C.I.	1965	1992	2005	11	1
1992	OSHAWA	OXFORD ST	MALAGA RD	270m S. OF MALAGA RD	270	200	C.I.	1979	1992		50	4
1992	OSHAWA	OXFORD ST	PORTER ST	290m N. OF PORTER ST	290	200	D.I.	1979	1992		50	4
1992	PICKERING	ADA CT	SHADY BROOK DR	END OF CT (N/L)	190	150	D.I.	1975	1992		13	1
1992	PICKERING	ALWIN CIRCLE	N/L @ DENMAR RD	S/L @ DENMAR RD	470	150	D.I.	1974	1992		32	3
1992	PICKERING	ASPEN RD	E/L @ PARKSIDE RD	120m W. OF E/L @ PARKSIDE RD	120	200	D.I.	1992	1992		11	0
1992	PICKERING	BELINDA CT	SHADY BROOK DR	END OF CT (N/L)	130	150	D.I.	1976	1992		10	1
1992	PICKERING	COBBLER'S CT	NW/L @ EDGEWOOD RD	E/L @ EDGEWOOD RD	330	150	D.I.	1975	1992		23	2
1992	PICKERING	CRICKET LN	STROUDS LN	ASPEN RD	210	150	D.I.	1976	1992		17	2
1992	PICKERING	DENMAR RD	KINGSTON RD	ALWIN CIRCLE (S/L)	340	200	D.I.	1974	1992		38	2
1992	PICKERING	DREYBER CT	PICKERING PKWY	END OF CT (W/L)	170	150	D.I.	1979	1992		12	1

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YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1992	PICKERING	EASTBANK RD	EDGEWOOD RD	END OF RD (N/L)	500	150	D.I.	1976	1992		34	3
1992	PICKERING	EDGEWOOD RD	NW/L @ SHADYBROOK DR	SE/L @ SHADYBROOK DR	500	150	D.I.	1975	1992		35	4
1992	PICKERING	GETA CIRCLE	N/L @ PICKERING PKWY	S/L @ PICKERING PKWY	440	150	D.I.	1979	1992		31	3
1992	PICKERING	GUILD RD	KINGSTON RD	FINCH AVE	370	250	D.I.	1971	1992		19	3
1992	PICKERING	HEDGEROW PL	SHADYBROOK DR	EASTBANK RD	135	150	D.I.	1976	1992		10	1
1992	PICKERING	JACQUELINE AVE	EASTBANK RD	SPRUCE HILL RD	145	150	D.I.	1970	1992		11	1
1992	PICKERING	JAYWIN CIRCLE	N/L @ DENMAR RD	S/L @ DENMAR RD	400	150	D.I.	1974	1992		26	3
1992	PICKERING	KATE'S LN	SHADYBROOK DR	END OF LN (E/L)	90	150	D.I.	1975	1992		1	0
1992	PICKERING	MEADOWVIEW AVE	SHADYBROOK DR	EDGEWOOD RD	430	150	D.I.	1976	1992		22	2
1992	PICKERING	MILLBANK RD	ASPEN RD	PARKSIDE DR	240	150	D.I.	1976	1992		17	2
1992	PICKERING	MINSTREL MNR	COBBLER'S CT	END OF MNR (N/L)	70	150	D.I.	1979	1992		5	0
1992	PICKERING	NEW ST	ASPEN RD	PARKSIDE DR	240	150	D.I.	1978	1992		13	2
1992	PICKERING	NEW ST	PARKSIDE DR	CRICKET LN	380	300	D.I.	1976	1992		48	3
1992	PICKERING	ORION CT	SHADYBROOK DR	END OF CT (N/L)	80	150	D.I.	1976	1992		5	1
1992	PICKERING	PARKSIDE DR	NEW ST	ASPEN RD	500	300	D.I.	1978	1992		59	3
1992	PICKERING	PARKSIDE DR	W/L @ ASPEN RD	E/L @ ASPEN RD	470	150	D.I.	1978	1992		33	3
1992	PICKERING	PEBBLE CT	PARKSIDE DR	100m W. OF PARKSIDE DR	100	150	D.I.	1982	1992		10	1
1992	PICKERING	PICKERING PKWY	BROCK RD	225m S. OF PORTLAND CT	670	300	D.I.	1979	1992		85	5
1992	PICKERING	SANDSTONE MNR	GRANITE CT	END OF MNR (S/L)	295	300	D.I.	1981	1992	2003	19	2
1992	PICKERING	SANOK DR	HILLCREST RD	SAMFORD AVE	495	150	C.I.	1964	1992		35	4
1992	PICKERING	SHADYBROOK DR	SPRUCEHILL RD	300mm EASEMENT ON SHADYBROOK RD	570	150	D.I.	1975	1992		41	5
1992	PICKERING	SHADYBROOK DR	STROUDS LN	300mm EASEMENT ON SHADYBROOK RD	810	300	D.I.	1975	1992		96	6
1992	PICKERING	STORRINGTON ST	WALNUT LN	GLENANNA RD	650	200	D.I.	1976	1992		62	5
1992	PICKERING	STROUDS LN	ASPEN RD	SPRUCE HILL RD	290	300	D.I.	1976	1992		29	2
1992	PICKERING	STROUDS LN	WHITES RD	ASPEN RD	225	150	D.I.	1976	1992		21	1
1992	PICKERING	WALNUT LN	KINGSTON RD	GLENANNA RD	665	200	D.I.	1976	1992		58	4
1992	PICKERING	WOODRUFF CR	ASPEN RD	NEW ST	255	150	D.I.	1978	1992		15	1
					14,725						1,303	105
1993	AJAX	ALBERY CR	N/L @ BRYANT RD	400mm EASEMENT ON ALBERY CR	100	150	C.I.	1968	1993		9	1
1993	AJAX	ALBERY CR	N/L OF 400mm EASEMENT	S/L OF 400mm EASEMENT	310	400	C.I.	1968	1993		37	2
1993	AJAX	ALBERY CR	S/L @ BRYANT RD	400mm EASEMENT ON ALBERY CR	120	150	C.I.	1968	1993		9	1
1993	AJAX	BRYANT RD	W/L @ CLOVER RIDGE DR E	E/L @ CLOVER RIDGE DR E	1,000	150	D.I.	1968	1993		75	6
1993	AJAX	BURRELLS RD	CLEMENTS RD E	STRATHY RD	450	150	C.I.	1966	1993		22	3
1993	AJAX	CLEMENTS RD E	125m E. OF HARWOOD AVE	BURRELLS RD	90	150	C.I.	1966	1993		7	0
1993	AJAX	CLEMENTS RD E	HARWOOD AVE	125m E. OF HARWOOD AVE	125	150	D.I.	1969	1993		10	1
1993	AJAX	CLEMENTS RD E	SIMPSON RD	BURCHER RD	180	250	C.I.	1960	1993		15	1
1993	AJAX	STRATHY RD	DREYER DR W	BURRELLS RD	495	150	C.I.	1960	1993		35	3
1993	BOWMANVILLE	CARRUTHERS DR	W/L @ LOSCOMBE DR	E/L @ LOSCOMBE DR	325	150	D.I.	1973	1993		24	3
1993	BOWMANVILLE	HETHERINGTON DR	N/L @ LAWRENCE CR	END OF DR (S/L)	430	150	D.I.	1973	1993	2003	33	3
1993	BOWMANVILLE	LITTLE AVE	COLE AVE	END OF AVE (N/L)	520	150	D.I.	1973	1993		36	3
1993	BOWMANVILLE	QUINN DR	LAWRENCE CR	125m W. OF LAWRENCE CR	125	150	D.I.	1973	1993	2003	8	1
1993	BOWMANVILLE	WEST BEACH RD	PORT DARLINGTON RD	END OF RD (W/L)	180	250	D.I.	1969	1993		16	1
1993	OSHAWA	CENTRAL PARK BLVD N	CARNABY CR	MAYFAIR AVE	360	150	D.I.	1970	1993		42	3

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1993	OSHAWA	CENTRAL PARK BLVD N	MAYFAIR AVE	NEWGATE AVE	60	300	D.I.	1969	1993		3	0
1993	OSHAWA	CENTRAL PARK BLVD N	NEWGATE AVE	ROSSLAND RD E	130	150	D.I.	1969	1993		11	0
1993	OSHAWA	DURHAM CT	DURHAM ST	END OF CT (W/L)	110	150	D.I.	1970	1993	2003	7	1
1993	OSHAWA	TATRA DR	THORNTON RD N	END OF DR (S/L)	250	200	D.I.	1971	1993	2003	18	2
1993	PICKERING	BICROFT CT	BOWLER DR	END OF CT (N/L)	170	200	D.I.	1977	1993		14	1
1993	PICKERING	BONITA AVE	FAIRPORT RD	APPLEVIEW RD	250	200	D.I.	1970	1988	1993	22	2
1993	PICKERING	BOWLER DR	FINCH AVE	GLENANNA RD	1,010	300	D.I.	1976	1993		98	7
1993	PICKERING	BREDA AVE	W/L @ SANOK DR	E/L @ SANOK DR	185	200	C.I.	1965	1993		16	1
1993	PICKERING	BRONTE SQ	GLENANNA RD	GLENDALE DR	850	200	D.I.	1976	1993		68	5
1993	PICKERING	CANBOROUGH CR	N/L @ BOWLER DR	S/L @ BOWLER DR	680	200	D.I.	1975	1993		61	5
1993	PICKERING	CHARLOTTE CIRCLE	W/L @ BRONTE SQ	E/L @ BRONTE SQ	165	150	D.I.	1978	1993		9	1
1993	PICKERING	CULROSS AVE	DIXIE RD	WALNUT LN	160	200	D.I.	1976	1993		12	1
1993	PICKERING	EDGE LN	EYER DR	END OF LN (S/L)	115	150	D.I.	1979	1993	2003	7	1
1993	PICKERING	EYER DR	DOWNLAND DR	OKLAHOMA DR	320	200	D.I.	1976	1993	2003	29	2
1993	PICKERING	EYER DR	OKLAHOMA DR	HILLCREST RD	675	150	D.I.	1979	1993	2003	60	6
1993	PICKERING	FOLEYET CR	N/L @ WALNUT LN	S/L @ WALNUT LN	390	150	D.I.	1976	1993		25	2
1993	PICKERING	GLENANNA RD	BOWLER DR	GLENDALE DR	185	200	D.I.	1976	1993		13	1
1993	PICKERING	GLENANNA RD	DIXIE RD	BOWLER DR	490	200	D.I.	1976	1993		43	3
1993	PICKERING	GLENDALE RD	GLENANNA RD	FINCH AVE	780	150	PVC (D.I.)	1967	1993		49	5
1993	PICKERING	GLOUCESTER SQ	120m N. OF GLOUCESTER SQ (S LEG)	210m N. OF GLOUCESTER SQ (S. LEG)	90	150	PVC (D.I.)	1988	1993		10	1
1993	PICKERING	GLOUCESTER SQ	BOWLER DR	210m W. OF BOWLER (TO PVC SEC.)	210	150	D.I.	1978	1993		17	2
1993	PICKERING	GLOUCESTER SQ	GLOUCESTER SQ (S. LEG)	120m N. OF GLOUCESTER SQ (S. LEG)	120	150	D.I.	1977	1993		7	1
1993	PICKERING	GRANITE CT	130m E. OF IRONSTONE MNR	300m W. OF IRONSTONE MNR	430	300	D.I.	1981	1993		50	2
1993	PICKERING	HANWORTH CT	SANOK DR	END OF CT (N/L)	35	200	C.I.	1965	1993		5	0
1993	PICKERING	HENSALL CT	MALDEN CR	END OF CT (S/L)	110	150	D.I.	1979	1993		8	1
1993	PICKERING	IRONSTONE MNR	GRANITE CT	END OF MNR (N/L)	135	300	D.I.	1981	1993		17	1
1993	PICKERING	KITLEY AVE	DIXIE RD	BOWLER DR	220	150	D.I.	1977	1993		12	1
1993	PICKERING	LISTOWELL CR	GLENANNA RD	STORRINGTON ST	465	150	D.I.	1976	1993		33	3
1993	PICKERING	LUTTERWORTH CT	CANBOROUGH CR	END OF CT (W/L)	55	150	D.I.	1975	1993		4	0
1993	PICKERING	MALDEN CR	BOWLER DR	GLENANNA RD	760	200	D.I.	1976	1993		66	4
1993	PICKERING	MONTEAGLE CR	GLOUCESTER SQ	BOWLER DR	180	150	D.I.	1977	1993		13	1
1993	PICKERING	MORETTA AVE	W/L @ SANOK DR	E/L @ SANOK DR	190	150	C.I.	1968	1993		14	1
1993	PICKERING	MULMUR CT	BOWLER DR	END OF CT (E/L)	80	150	D.I.	1975	1993		7	1
1993	PICKERING	PINECREEK CT	KITLEY AVE	END OF CT (S/L)	95	150	D.I.	1981	1993		6	1
1993	PICKERING	ROUGEMOUNT DR	30m S. OF KINGSTON RD	55m S. OF KINGSTON RD	25	150	D.I.	1973	1993		4	1
1993	PICKERING	SANOK DR	W/L OF MORETTA AVE	SAMFORD AVE	490	150	C.I.	1968	1993		28	2
1993	PICKERING	SANOK DR	W/L OF MORETTA AVE	SANOK DR (S/L)	75	200	C.I.	1968	1993		12	0
1993	PICKERING	SHEPHARD AVE	OLD FOREST RD	ROSEBANK RD N	255	400	D.I.	1969	1993		40	2
1993	PICKERING	STONEBRIDGE LN	EYER DR	DOWNLAND DR	485	150	D.I.	1977	1993	2003	40	4
1993	PICKERING	WOLLASTON CT	WALNUT AVE	100m W. OF WALNUT AVE	100	150	D.I.	1976	1993		8	1
1993	WHITBY	MASON DR	150mm EASEMENT ON MASON DR	60m S. OF 150mm EASEMENT	60	150	C.I.	1974	1993		4	0
1993	WHITBY	MASON DR	150mm EASEMENT ON MASON DR	90m W. OF 150mm EASEMENT	90	150	D.I.	1970	1993		4	0
1993	WHITBY	MASON DR	DUNLOP ST	145m N. OF DUNLOP ST	145	150	D.I.	1970	1993		10	0
					16,685						1,362	108

TABLE 2

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY

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	Reconstructed Streets
	Reprotected Streets

YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1995	AJAX	CLEMENTS RD E	DREYER DR	BURCHER RD	960	150	C.I.	1960	1995		80	7
1995	AJAX	FINLEY AVE	WESTNEY RD	THE LAKE DRIVEWAY E	1,325	300	D.I.	1974	1995		142	9
1995	AJAX	GIBSON CT	CLEMENTS RD E	END OF CT (S/L)	115	150	C.I.	1968	1995		10	1
1995	AJAX	O'DELL CT	TURNBULL RD	END OF CT (S/L)	140	150	D.I.	1966	1995		16	2
1995	AJAX	PARSONS RD	CLEMENTS RD E	TURNBULL RD	75	150	D.I.	1966	1995		9	1
1995	AJAX	PRESTON CT	CLEMENTS RD E	55m W. OF CLEMENTS RD E	55	150	C.I.	1966	1995		8	1
1995	OSHAWA	BERMUDA AVE	WAVERLY ST N	244m E. OF WAVERLY ST N	244	200	D.I.	1972	1995		25	3
1995	OSHAWA	FAREWELL ST	HARBOUR RD	MARWOOD DR	440	400	D.I.	1968	1995		55	4
1995	OSHAWA	FAREWELL ST	WENTWORTH ST E	MARWOOD DR	390	300	D.I.	1968	1995	2005	43	2
1995	OSHAWA	WAVERLY ST N	ROSSLAND RD W	BERMUDA AVE	355	200	PVC (D.I.)	2001	1995		29	3
1995	OSHAWA	WENTWORTH AVE	WILSON RD S	FAREWELL AVE	405	400	D.I.	1967	1995		66	3
1995	PORT PERRY	REACH ST	BIGELOW ST	215m W. OF OLD SIMCOE RD	550	200	D.I.	1979	1995		52	5
1995	PORT PERRY	SIMCOE ST (REG RD 2)	FOURTH CONC RD	215m S. OF FOURTH CONC RD	215	400	D.I.	1978	1995		36	3
1995	PORT PERRY	SIMCOE ST (REG RD 2)	FOURTH CONC RD	OYLER DR	1,390	400	D.I.	1978	1995		228	29
1995	PORT PERRY	SIMCOE ST (REG RD 2)	OYLER DR	60m N. OF GREENWAY BLVD	640	400	D.I.	1978	1995		109	13
					7,299						908	86
1996	AJAX	HURLEY RD	BURCHER RD	TULLOCH DR	390	150	C.I.	1956	1996		25	3
1996	AJAX	PICKERING BEACH RD	FOORD RD	350m S. OF FOORD RD	350	150	D.I.	1973	1996		29	2
1996	AJAX	SHERWOOD RD	CHURCH ST	END OF RD (E/L)	420	150	C.I.	1968	1996		27	3
1996	AJAX	TAYLOR RD	CLEMENTS RD E	N/L @ TURNBULL RD	580	150	D.I.	1966	1996		42	4
1996	AJAX	TULLOCH DR	EMPEROR ST	E/L @ TULLOCH DR	1,040	150	C.I.	1956	1996		65	7
1996	OSHAWA	ADDISON ST	TENNYSON AVE	CHAUCER AVE	210	150	C.I.	1957	1996		15	2
1996	OSHAWA	CARNATION CT	FLORELL DR	END OF CT (W/L)	75	150	C.I.	1960	1996		6	1
1996	OSHAWA	CHAUCER AVE	ADDISON ST	SHAKESPEARE ST	280	150	C.I.	1957	1996		20	2
1996	OSHAWA	COLERIDGE ST	TENNYSON AVE	WHITMAN CR	165	150	C.I.	1955	1996		11	1
1996	OSHAWA	DEAN AVE	LOMOND ST	DUNKIRK AVE	60	150	C.I.	1965	1996		8	1
1996	OSHAWA	DEAN AVE	NORMANDY ST	LOMOND ST	215	150	D.I.	1971	1996		13	1
1996	OSHAWA	DEAN AVE	RITSON RD	NORMANDY ST	405	150	C.I.	1963	1996		24	2
1996	OSHAWA	EMERSON AVE	FAREWELL ST	COLERIDGE ST	325	150	C.I.	1964	1996		20	2
1996	OSHAWA	FAREWELL ST	DEAN AVE	KEATES AVE	460	150	C.I.	1955	1996		27	2
1996	OSHAWA	FLORELL DR	HARMONY RD	OLIVE AVE	325	150	C.I.	1960	1996		41	4
1996	OSHAWA	GUELPH ST	GLIDDON ST	HOSKIN AVE	120	150	C.I.	1968	1996		9	1
1996	OSHAWA	GUELPH ST	HOSKIN AVE	TAYLOR AVE	280	150	D.I.	1968	1996		19	1
1996	OSHAWA	GUELPH ST	TAYLOR AVE	OLIVE AVE	330	150	PVC (D.I.)	2000	1996		21	2
1996	OSHAWA	NELSON ST	WATERLOO ST	70m N OF WATERLOO ST	70	200	C.I.	1963	1996		5	1
1996	OSHAWA	NELSON ST	WELLINGTON AVE E	END OF ST (S/L)	240	150	D.I.	1975	1996		14	1
1996	OSHAWA	NELSON ST	WENTWORTH ST E	70m N OF WATERLOO ST	150	150	D.I.	1969	1996		10	0
1996	OSHAWA	NELSON ST	WENTWORTH ST E	CONANT ST	440	150	C.I.	1963	1996		30	3
1996	OSHAWA	SHAKESPEARE AVE	FAREWELL ST	ADDISON ST	250	150	PVC (C.I.)	1998	1996		18	2
1996	PICKERING	HILLCREST RD	HILLVIEW CR	WEST SHORE BLVD	1,100	200	C.I.	1965	1996		99	8
1996	PICKERING	KINGSTON RD	ALTONA RD	ROUGEMOUNT DR	255	500	D.I.	1970	1996		20	2
1996	PICKERING	PARK CR	CLIFFVIEW AVE	WEST SHORE BLVD	810	200	C.I.	1964	1996		53	6

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YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1996	PICKERING	SURF AVE	MARKSBURY RD	WEST SHORE BLVD	100	150	C.I.	1964	1996		8	1
1996	PICKERING	SURF AVE	PARK CR	MARKSBURY RD	100	150	C.I.	1964	1996		8	1
1996	PICKERING	WEST SHORE BLVD	HILLCREST RD	BEACHPOINT PROMENADE	1,300	250	C.I.	1960	1996		132	9
1996	PICKERING	WEST SHORE BLVD	VISTULA DR	HILLCREST RD	140	400	PVC (C.I.)	1999	1996		17	1
1996	PORT PERRY	APPLEWOOD CR	N/L @ ORCHARD RD	118m W. OF ORCHARD RD	118	150	D.I.	1975	1996		9	1
1996	PORT PERRY	BLOSSOM CT	ORCHARD RD	END OF CT (W/L)	235	150	D.I.	1977	1996		16	2
1996	PORT PERRY	LAKEVIEW DR	SIMCOE ST	85m E. OF SIMCOE ST	85	200	D.I.	1977	1996		11	1
1996	PORT PERRY	ORCHARD RD	W/L @ LAKEVIEW DR	E/L @ LAKEVIEW DR	610	150	D.I.	1977	1996		44	4
1996	PORT PERRY	SIMCOE ST	360m S. OF FOURTH CONC RD	355m N. OF FOURTH CONC RD	715	400	D.I.	1978	1996		146	11
1996	PORT PERRY	VAN EDWARD DR	SIMCOE ST	END OF DR (E/L)	175	200	D.I.	1981	1996		17	2
1996	PORT PERRY	WALSH DR	OLD SIMCOE RD	QUEEN ST	505	200	D.I.	1979	1996		44	3
1996	UXBRIDGE	SPRUCE ST	BROCK ST	KING ST	142	200	D.I.	1978	1996		13	1
1996	WHITBY	COLBORNE ST	ATHOL ST	HICKORY ST	150	150	D.I.	1978	1996		11	1
1996	WHITBY	CROCUS CR	LILAC TERRACE	HUTCHINSON AVE	75	150	PVC (C.I.)	1953	1996		5	1
1996	WHITBY	CROCUS CR	LUPIN DR	LILAC TERRACE	280	150	C.I.	1953	1996		20	1
1996	WHITBY	DUBLIN ST	LUPIN DR	ROSEDALE DR	295	150	D.I.	1970	1996		22	2
1996	WHITBY	DUNLOP ST	LUPIN DR	DOVEDALE DR	280	150	C.I.	1954	1996		22	2
1996	WHITBY	ELIZABETH CR	CRAWFORTH ST	MANNING ST	720	150	D.I.	1970	1996		46	3
1996	WHITBY	HUTCHINSON AVE	LUPIN DR	DOVEDALE DR	275	150	PVC (C.I.)	2002	1996		19	2
1996	WHITBY	LILAC TERRACE	LUPIN DR	CROCUS CR	175	150	C.I.	1953	1996		12	1
1996	WHITBY	LUPIN DR	HUTCHINSON ST	DUNDAS ST	585	150	C.I.	1954	1996		39	3
1996	WHITBY	LUPIN DR	HUTCHINSON ST	HARDING ST	375	200	D.I.	1970	1996		39	3
1996	WHITBY	ROSEDALE ST	HARDING ST	S/L OF DOVEDALE ST	315	200	D.I.	1970	1996		28	2
1996	WHITBY	ROSEDALE ST	S/L OF DOVEDALE ST	N/L OF DOVEDALE ST	490	150	C.I.	1955	1996		33	3
					17,585						1,432	125
1997	AJAX	BROOKS RD	GEORGINA DR	MILL ST	80	200	C.I.	1969	1997		8	1
1997	AJAX	GEORGINA DR	LINCOLN ST	HILEY AVE	425	150	C.I.	1969	1997		40	3
1997	OSHAWA	CADILLAC AVE S	CRERAR AVE	KING ST E	1,170	150	C.I.	1950	1997		73	6
1997	OSHAWA	CENTRAL PARK BLVD N	CRERAR AVE	KING ST E	1,170	150	C.I.	1953	1997		98	5
1997	OSHAWA	CENTRAL PARK BLVD N	ELGIN ST E	140m S. OF COLBORNE ST	345	150	C.I.	1954	1997		25	2
1997	OSHAWA	CENTRAL PARK BLVD N	ELGIN ST E	35m N. OF DELROY CT	155	200	D.I.	1969	1997		22	2
1997	OSHAWA	CRERAR AVE	CENTRAL PARK BLVD N	WILSON RD S	355	150	C.I.	1955	1997		31	3
1997	OSHAWA	HIGHLAND AVE	CRERAR AVE	ATHOL ST E	1,045	150	C.I.	1953	1997		86	6
1997	PICKERING	BATORY AVE	BREEZY DR	VISTULA DR	485	200	C.I.	1965	1997		46	3
1997	PICKERING	BAYSHORE CT	BATORY AVE	END OF CT (E/L)	90	200	C.I.	1965	1997		8	1
1997	PICKERING	BREEZY DR	WEST SHORE BLVD	OKLAHOMA DR	595	200	C.I.	1964	1997		55	4
1997	PICKERING	CECYLIA CT	WEST SHORE BLVD	END OF CT (N/L)	150	150	C.I.	1965	1997		15	1
1997	PICKERING	ESSA CR	BATORY AVE	BREEZY DR	530	150	PVC (C.I.)	1964	1997		45	3
1997	PICKERING	LYNX AVE	WEST SHORE BLVD	BATORY AVE	155	150	C.I.	1965	1997		14	1
1997	PICKERING	MARINET CR	W/L @ HILLCREST RD	E/L @ HILLCREST RD	490	200	C.I.	1965	1997		50	3
1997	PICKERING	OLIVA ST	LYNX AVE	BREEZY DR	265	150	C.I.	1960	1997		23	2
1997	PICKERING	SHEPHARD AVE	OLD FOREST RD	ALTONA RD	540	400	D.I.	1969	1997		82	3
1997	PICKERING	TIMMINS GARDENS	VISTULA DR	BATORY AVE	360	150	C.I.	1965	1997		31	2

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1997	PICKERING	VISTULA DR	BATORY AVE	WEST SHORE BLVD	1,040	200	C.I.	1965	1997		91	7
1997	PICKERING	WOODVIEW AVE	PINEGROVE AVE	270m N. OF PINEGROVE AVE	270	200	D.I.	1978	1997		21	2
					9,715						864	60
1998	AJAX	LAMBARD CR	DREYER DR W	DREYER DR W	375	150	C.I.	1968	1998		32	3
1998	AJAX	RANDALL DR	KINGSTON RD	CHURCH ST S	380	200	D.I.	1978	1998		29	3
1998	OSHAWA	BLOOR ST	235m W. OF GRANDVIEW ST	460m W. OF GRANDVIEW ST	225	300	D.I.	1976	1998		20	2
1998	OSHAWA	CHADBURN ST	GLIDDON AVE	END OF CHADBURN CT (S/L)	645	150	C.I.	1950	1998		44	4
1998	OSHAWA	DOWN CR	200mm EASEMENT ON DOWN CR	35m W. OF TOWNLINE RD	350	200	PVC (D.I.)	1976	1998		33	1
1998	OSHAWA	DOWN CR	35m W. OF TOWNLINE RD	S/L @ TOWNLINE RD	30	200	D.I.	1976	1998		4	1
1998	OSHAWA	DOWN CR	N/L @ TOWNLINE RD	200mm EASEMENT ON DOWN CR	305	150	D.I.	1976	1998		26	2
1998	OSHAWA	DOWNVIEW CR	N/L @ GRANDVIEW DR	S/L @ GRANDVIEW DR	360	200	D.I.	1976	1998		30	3
1998	OSHAWA	EDNA CT	WESLEY DR	END OF CT (S/L)	145	150	D.I.	1976	1998		11	1
1998	OSHAWA	NORMAN CR	GRANDVIEW DR	SOUTHDOWN ST	385	200	D.I.	1976	1998		35	3
1998	OSHAWA	NORMAN CT	SOUTHDOWN ST	END OF CT (E/L)	130	300	D.I.	1976	1998		9	1
1998	OSHAWA	SOUTHDALE AVE	SOUTHDOWN ST	SOUTHRIDGE ST	125	200	D.I.	1977	1998		14	1
1998	OSHAWA	SOUTHDOWN DR	SOUTHDALE AVE	SOUTHRIDGE ST	290	200	D.I.	1977	1998		24	3
1998	OSHAWA	SOUTHDOWN ST	GRANDVIEW DR	SOUTHDALE AVE	150	200	D.I.	1976	1998		14	1
1998	OSHAWA	SOUTHGATE DR	SOUTHDALE AVE	SOUTHPORT RD	345	200	D.I.	1977	1998		30	2
1998	OSHAWA	SOUTHGATE DR	SOUTHPORT RD	TOWNLINE RD	155	300	D.I.	1977	1998		22	1
1998	OSHAWA	SOUTHRIDGE ST	SOUTHDALE AVE	SOUTHGATE DR	300	200	D.I.	1977	1998		27	1
1998	OSHAWA	WESLEY DR	EDNA CT	S/L @ GRANDVIEW DR	260	300	D.I.	1976	1998		22	2
1998	OSHAWA	WESLEY DR	N/L @ GRANDVIEW DR	EDNA CT	160	150	D.I.	1976	1998		10	1
1998	PICKERING	ANNLAND ST	COMMERCE ST	SHEARER LN	145	200	C.I.	1965	1998		16	1
1998	PICKERING	ANNLAND ST	LIVERPOOL RD	COMMERCE ST	420	150	C.I.	1965	1998		35	4
1998	PICKERING	ANNLAND ST	SHEARER LN	KROSNO BLVD	145	300	C.I.	1965	1998		16	1
1998	PICKERING	DOUGLAS AVE	CHAPLEAU AVE	BROWNING AVE	595	200	C.I.	1960	1998		65	4
1998	PICKERING	DOUGLAS AVE	RADOM ST	CHAPLEAU AVE	80	150	C.I.	1969	1998		8	1
1998	PICKERING	KROSNO BLVD	ALLYSUM ST	ANNLAND ST	535	200	C.I.	1960	1998		81	4
1998	PICKERING	KROSNO BLVD	ANNLAND ST	LIVERPOOL RD	320	300	C.I.	1960	1998		32	3
1998	PICKERING	KROSNO BLVD	BAYLY ST	TATRA DR	120	200	C.I.	1960	1998		12	2
1998	PICKERING	KROSNO BLVD	BRONWEN LN	REYTAN BLVD	70	200	C.I.	1960	1998		10	0
1998	PICKERING	KROSNO BLVD	FORDON AVE	MORDON LN	70	150	C.I.	1960	1998		8	1
1998	PICKERING	KROSNO BLVD	MORDON LN	BRONWEN LN	335	300	C.I.	1960	1998		40	2
1998	PICKERING	KROSNO BLVD	REYTAN BLVD	ALLYSUM ST	80	300	C.I.	1960	1998		9	1
1998	PICKERING	KROSNO BLVD	TATRA DR	FORDON AVE	85	250	C.I.	1960	1998		11	0
1998	PICKERING	MARKSBURY RD	VICKI DR	PARK CR	300	150	C.I.	1965	1998		25	3
1998	PICKERING	MODLIN RD	KROSNO BLVD	TATRA DR	760	200	C.I.	1960	1998		76	5
1998	PICKERING	SUNRISE AVE	BREEZY DR	WEST SHORE BLVD	395	200	C.I.	1965	1998		36	3
1998	WHITBY	BYRON ST S	160m N. OF VICTORIA ST	200m N. OF VICTORIA ST	40	300	C.I.	1974	1998		4	1
1998	WHITBY	BYRON ST S	VICTORIA ST	160m N. OF VICTORIA ST	160	150	D.I.	1974	1998		13	0
1998	WHITBY	HICKORY ST	HWY #2	MARY ST	195	150	D.I.	1980	1998		14	1
1998	WHITBY	HWY #2 (DUNDAS ST W)	120m E. OF HALLS RD N	265m W. OF CORONATION RD	440	200	PVC (D.I.)	2002	1998		24	2
1998	WHITBY	THICKSON RD S	WILLIAM SMITH DR	335m N. OF WILLIAM SMITH DR	335	300	D.I.	1973	1998		41	3
					10,740						1,012	78

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1999	CANNINGTON	CAMERON ST	BROCK RD (18A)	ALBERT ST	560	200	C.I.	1976	1999		50	3
1999	OSHAWA	BALDWIN CT	HOSKIN AVE	END OF CT (S/L)	135	150	C.I.	1958	1999		12	1
1999	OSHAWA	CAMELOT CT	END OF CT (S/L)	50m N. OF CHANCERY CT	140	150	D.I.	1972	1999		14	1
1999	OSHAWA	CAMELOT DR	HILLCROFT ST	GALAHAD DR	580	200	D.I.	1975	1999		55	4
1999	OSHAWA	CHANCERY CT	CAMELOT CT	END OF CT (E/L)	45	200	D.I.	1972	1999		4	0
1999	OSHAWA	CRESTWOOD DR	HILLCROFT ST	OAKWOOD AVE	365	200	D.I.	1972	1999		20	3
1999	OSHAWA	EVERSON CT	CRESTWOOD DR	END OF CT (E/L)	70	150	D.I.	1972	1999		1	1
1999	OSHAWA	GALAHAD DR	CAMELOT DR	GENTRY CR (S/L)	680	200	D.I.	1976	1999		67	3
1999	OSHAWA	GAYLORD DR	GENTRY CR	HILLCROFT ST	360	200	D.I.	1976	1999		35	3
1999	OSHAWA	GENTRY CR	N/L @ GALAHAD DR	S/L @ GALAHAD DR	710	200	D.I.	1976	1999		53	5
1999	OSHAWA	GLADFERN ST	GALAHAD DR	ROSSLAND RD	125	200	D.I.	1975	1999		13	1
1999	OSHAWA	GOTHIC CT	GREENBRIAR DR	END OF CT (W/L)	80	150	D.I.	1976	1999		9	1
1999	OSHAWA	GOTHIC DR	HILLCROFT ST	GREENBRIAR DR	365	150	D.I.	1976	1999		33	2
1999	OSHAWA	GRANGE CT	HILLCROFT ST	END OF CT (W/L)	235	150	D.I.	1976	1999		14	2
1999	OSHAWA	GREENBRIAR DR	HILLCROFT ST	GOTHIC DR	580	150	D.I.	1976	1999		53	4
1999	OSHAWA	HILLCROFT ST	CRESTWOOD DR	GLEBE AVE	920	200	D.I.	1976	1999		72	6
1999	OSHAWA	KELLY AVE	ST PATRICK ST	WILSON RD	180	150	D.I.	1976	1999		16	0
1999	OSHAWA	LANCELOT CR	S/L @ CAMELOT DR	N/L @ CAMELOT DR	340	150	D.I.	1975	1999		33	1
1999	OSHAWA	MERLIN CT	CAMELOT DR	END OF CT (E/L)	60	150	D.I.	1975	1999		3	1
1999	OSHAWA	MILTON ST	CHESTERTON AVE	TENNYSON AVE	155	150	C.I.	1955	1999		13	1
1999	OSHAWA	OAKWOOD AVE	WILSON RD N	CRESTWOOD DR	175	200	D.I.	1965	1999		19	2
1999	OSHAWA	PERCIVAL CT	CAMELOT DR	END OF CT (E/L)	60	200	D.I.	1975	1999		5	1
1999	PICKERING	ANTONIO ST	N/L @ GRENOBLE BLVD	E/L @ GRENOBLE BLVD	400	150	C.I.	1960	1999		40	3
1999	PICKERING	BEM AVE	GARVOLIN AVE	S/L @ ZATOR AVE	485	150	C.I.	1964	1999		44	4
1999	PICKERING	BRIXTON LN	MODLIN RD	BEM AVE	60	200	C.I.	1960	1999		7	0
1999	PICKERING	BRONWEN LN	ZATOR AVE	KROSNO BLVD	60	200	C.I.	1960	1999		7	1
1999	PICKERING	FOXGLOVE AVE	ANNLAND ST	HEWSON DR	65	200	C.I.	1960	1999		8	0
1999	PICKERING	FOXGLOVE AVE	HEWSON DR	END OF AVE (W/L)	110	150	C.I.	1960	1999		11	1
1999	PICKERING	GRENOBLE BLVD	S/L @ NAROCH BLVD	FUSCHIA LN	345	150	C.I.	1960	1999		37	2
1999	PICKERING	HELEN CR	MODLIN RD	END OF CR (S/L)	145	150	C.I.	1960	1999		13	1
1999	PICKERING	HEWSON DR	ANNLAND ST	FOXGLOVE AVE	195	150	C.I.	1960	1999		16	2
1999	PICKERING	LUNA CT	LIVERPOOL RD	END OF CT (E/L)	75	150	C.I.	1982	1999		7	1
1999	PICKERING	MIRIAM RD	N/L @ ZATOR AVE	S/L @ ZATOR AVE	285	150	C.I.	1960	1999		26	2
1999	PICKERING	NAROCH BLVD	TATRA DR	MODLIN RD	745	200	C.I.	1965	1999		77	5
1999	PICKERING	POPRAD AVE	210m E. OF SANGRO LN	END OF AVE (W/L)	350	150	C.I.	1960	1999		30	3
1999	PICKERING	POPRAD AVE	TATRA DR	25m N. OF TATRA DR	25	200	C.I.	1960	1999		4	1
1999	PICKERING	SANGRO LN	TATRA DR	POPRAD AVE	60	200	C.I.	1960	1999		7	1
1999	PICKERING	TATRA DR	LIVERPOOL RD	KROSNO BLVD	545	250	C.I.	1960	1999		65	4
1999	PICKERING	ZATOR AVE	KROSNO BLVD	BEM AVE	550	150	C.I.	1960	1999		52	4
1999	WHITBY	GORDON ST	VICTORIA ST	620m N. OF VICTORIA ST	620	500	D.I.	1974	1999		105	5
					12,040						1,150	86
2000	AJAX	ANSTEAD CR	W/L @ THE LAKE DRIVEWAY E	E/L @ THE LAKE DRIVEWAY E	825	150	D.I.	1979	2000		72	5
2000	AJAX	BROOKSBANK CR	N/L @ FINLEY AVE	S/L @ FINLEY AVE	460	150	D.I.	1977	2000		35	3

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	Reprotected Streets

YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2000	AJAX	CADBY RD	THE LAKE DRIVEWAY E	ANSTEAD CR	300	150	D.I.	1977	2000		28	3
2000	AJAX	MILL ST	KINGSTON RD	HILEY AVE	855	200	C.I.	1960	2000		58	5
2000	AJAX	PANTER CR	N/L @ FINLEY AVE	S/L @ FINLEY AVE	855	150	D.I.	1978	2000		68	5
2000	BOWMANVILLE	ALONNA ST	MARTIN RD	150mm EASEMENT ON ALONNA ST	150	150	PVC (D.I.)	1974	2000		14	1
2000	BOWMANVILLE	ALONNA ST	ROSER CR	150mm EASEMENT ON ALONNA ST	290	150	D.I.	1973	2000		28	2
2000	BOWMANVILLE	BASELINE RD	25m E. OF MARTIN RD	80m W. OF WAVERLY RD	305	200	D.I.	1972	2000		21	1
2000	BOWMANVILLE	BASELINE RD	MEARNS AVE	HAINES ST (END OF WM)	375	250	D.I.	1972	2000		41	3
2000	BOWMANVILLE	CARISTRAP AVE	BASELINE RD	END OF AVE (S/L)	270	250	D.I.	1972	2000		30	2
2000	BOWMANVILLE	CHANTEL CT	ROSER CR	END OF CT (W/L)	35	150	D.I.	1973	2000		3	0
2000	BOWMANVILLE	LIBERTY ST N	60m N. OF PAMELA CT	210m S. OF PAMELA CT	270	200	C.I.	1914	2000		12	1
2000	BOWMANVILLE	LIBERTY ST N	REBECCA CT	145m S. OF REBECCA CT (LIBERTY P.S.)	145	200	C.I.	1914	2000		12	1
2000	BOWMANVILLE	ROSER CR	485m E. OF CHANTEL CT	260m W. OF CHANTEL CT	745	150	D.I.	1973	2000		62	4
2000	BOWMANVILLE	ROSER CR	MARTIN RD	80m E. OF MARTIN RD	80	150	PVC (D.I.)	1986	2000		7	1
2000	OSHAWA	BOUNDARY RD	460m S. OF WENTWORTH ST W	415m N. OF THORNTON RD S	200	300	D.I.	1977	2000		27	2
2000	OSHAWA	BOUNDARY RD	WENTWORTH ST W	CROWN CT	145	300	D.I.	1978	2000		20	1
2000	OSHAWA	CROWN CT	BOUNDARY RD	END OF CT (W/L)	150	300	D.I.	1978	2000		6	1
2000	OSHAWA	SKAE DR	THORNTON RD S	PHILLIP MURRAY AVE	675	300	D.I.	1979	2000		87	4
2000	OSHAWA	TAUNTON RD	RITSON RD	105m E. OF NAPLES ST	360	300	D.I.	1976	2000		38	3
2000	OSHAWA	TERWILLEGAR AVE	THORNTON RD S	SKAE DR	320	300	D.I.	1979	2000		35	2
2000	OSHAWA	THORNTON RD S	PHILLIP MURRAY AVE	SKAE DR	345	300	D.I.	1974	2000		42	3
2000	PICKERING	GRENOBLE BLVD	FUSCHIA LN	N/L @ NAROCH BLVD	230	200	C.I.	1960	2000		26	1
2000	PICKERING	POPRAD AVE	25m N. OF TATRA DR	210m E. OF SANGRO LN	95	200	C.I.	1960	2000		8	0
2000	WHITBY	ANNES ST (EASEMENT)	BURNS ST	200m S. OF BURNS ST (HWY 401)	200	500	D.I.	1974	2000		41	2
2000	WHITBY	CHOPIN CT	DAWSON ST	END OF CT (S/L)	145	150	D.I.	1974	2000		11	1
2000	WHITBY	DAWSON ST	MICHAEL BLVD	ANNES ST	290	200	D.I.	1975	2000		26	2
2000	WHITBY	EVERGREEN DR	CANADIAN OAKS DR	S/L @ GADSBY DR	520	200	D.I.	1977	2000		38	3
2000	WHITBY	GADSBY DR	EVERGREEN DR	GARRARD RD	400	150	D.I.	1977	2000		35	3
2000	WHITBY	GERSHWIN CT	DAWSON ST	END OF CT (S/L)	145	150	D.I.	1973	2000		11	1
2000	WHITBY	GRATH CR	W/L @ GADSBY DR	E/L @ GADSBY DR	380	150	D.I.	1979	2000		14	1
2000	WHITBY	HAZELWOOD DR	135m N. OF MANNING RD	30m N. OF EVERGREEN DR	330	150	D.I.	1973	2000		22	2
2000	WHITBY	LLOYD ST	SCOTT ST	GARRARD RD	200	200	D.I.	1972	2000		19	2
2000	WHITBY	MICHAEL BLVD	BURNS ST	45m N. OF CARTER CR	330	450	D.I.	1973	2000		34	2
2000	WHITBY	SCOTT ST	LLOYD ST	DUNDAS ST	145	150	D.I.	1973	2000		12	1
2000	WHITBY	SCOTT ST	LLOYD ST	MANNING RD	835	200	D.I.	1973	2000		78	5
2000	WHITBY	SHANNON CT	DAWSON ST	END OF CT (S/L)	145	150	D.I.	1975	2000		11	1
2000	WHITBY	TOMS CT	GADSBY DR	END OF CT (E/L)	50	150	D.I.	1973	2000		3	0
					12,595						1,135	80
2001	BEAVERTON	VICTORIA ST	MORRISON AVE	WELLINGTON ST	30	150	D.I.	1979	2001		4	0
2001	BEAVERTON	WELLINGTON ST	VICTORIA ST	END OF ST (S/L)	155	150	D.I.	1979	2001		16	1
2001	BOWMANVILLE	FLETT ST	JANE ST	SOUTHWAY DR	265	150	C.I.	1950	2001		24	2
2001	BOWMANVILLE	NELSON ST	LIBERTY ST	END OF ST (E/L)	100	150	C.I.	1952	2001		8	1
2001	BOWMANVILLE	ORCHARDVIEW BLVD	JANE ST	SOUTHWAY DR	245	150	C.I.	1952	2001		23	2
2001	BOWMANVILLE	PARKWAY AVE	E/L @ PARKWAY CR	W/L @ PARKWAY CR	250	150	C.I.	1967	2001		24	2

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YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2001	BOWMANVILLE	PARKWAY AVE	LIBERTY ST	PARKWAY CR	80	300	C.I.	1963	2001		8	0
2001	BOWMANVILLE	PARKWAY CR	MUTTON CT	SW CORNER OF PARKWAY CR	730	150	C.I.	1963	2001		61	4
2001	BOWMANVILLE	SOUTHWAY DR	ORCHARDVIEW BLVD	SIMPSON AVE	80	150	C.I.	1952	2001		9	1
2001	BROOKLIN	FERGUSON AVE	VIPOND RD	HEBERDOWN CR	365	150	C.I.	1955	2001		36	2
2001	BROOKLIN	GARSDALE AVE	HEBERDOWN CR	VIPOND RD	275	150	C.I.	1955	2001		27	2
2001	BROOKLIN	HEBERDOWN CR	FERGUSON AVE	VIPOND RD	810	150	C.I.	1955	2001		75	5
2001	BROOKLIN	MITCHELL AVE	HEBERDOWN CR	VIPOND RD	220	150	C.I.	1955	2001		19	1
2001	BROOKLIN	VIPOND RD	FERGUSON AVE	MONTGOMERY AVE	330	200	C.I.	1955	2001		35	2
2001	BROOKLIN	VIPOND RD	MONTGOMERY AVE	HEBERDOWN CR	90	200	PVC (C.I.)	2002	2001		9	1
2001	OSHAWA	ARENA ST	COLBORNE ST	GLADSTONE AVE	105	150	C.I.	1955	2001		7	1
2001	OSHAWA	BOUNDARY RD	WENTWORTH ST W	450m S. OF WENTWORTH ST W	450	300	D.I.	1978	2001		52	2
2001	OSHAWA	COLBORNE ST	ARENA ST	GLADSTONE AVE	85	150	C.I.	1955	2001		7	1
2001	OSHAWA	ELGIN CT	NIPIGON ST	END OF CT (W/L)	75	150	C.I.	1955	2001		52	2
2001	OSHAWA	ELGIN ST	ARENA ST	WARREN AVE	110	150	C.I.	1956	2001		7	1
2001	OSHAWA	FAIRLAWN CT	RIDGEWAY AVE	END OF CT (S/L)	170	150	C.I.	1967	2001		7	0
2001	OSHAWA	FERNHILL BLVD	WOODCREST AVE	FAIRLEIGH AVE	195	150	C.I.	1953	2001		9	1
2001	OSHAWA	GLADSTONE AVE	ARENA ST	30m W. OF ARENA ST	150	150	C.I.	1965	2001		15	1
2001	OSHAWA	HUMBER AVE	PARK RD	NIPIGON ST	200	150	C.I.	1957	2001		16	1
2001	OSHAWA	MILLER AVE	FERNHILL BLVD	95m E. OF FERNHILL BLVD	95	150	C.I.	1946	2001		3	0
2001	OSHAWA	MILLER AVE	GIBBONS ST	90m W. OF GIBBONS ST	90	150	D.I.	1946	2001		20	2
2001	OSHAWA	MILLER AVE	STEVENSON RD N	FERNHILL BLVD	195	150	C.I.	1950	2001		8	0
2001	OSHAWA	NIPIGON ST	ADELAIDE AVE W	RIDGEWAY AVE	280	150	C.I.	1962	2001		8	1
2001	OSHAWA	NIPIGON ST	ANDERSON AVE	ELGIN CT	95	150	C.I.	1961	2001		19	2
2001	OSHAWA	RIDGEWAY AVE	PARK RD	FERNHILL BLVD	595	150	C.I.	1963	2001		23	2
2001	OSHAWA	SAGUENAY AVE	PARK RD	END OF AVE (W/L)	185	150	C.I.	1957	2001		7	1
2001	OSHAWA	TRENT CT	RIDGEWAY AVE	END OF CT (N/L)	70	150	C.I.	1957	2001		42	3
2001	OSHAWA	TRENT ST	ADELAIDE AVE W	HUMBER AVE	185	150	C.I.	1957	2001		11	1
2001	OSHAWA	WOODCREST AVE	FERNHILL BLVD	GIBBONS ST	185	150	C.I.	1951	2001		5	0
2001	OSHAWA	WOODCREST AVE	STEVENSON RD N	FERNHILL BLVD	195	150	C.I.	1953	2001		18	2
2001	PICKERING	CHIPMUNK ST	SUNRISE AVE	OKLAHOMA DR	150	200	C.I.	1965	2001		16	1
2001	PICKERING	FINCH AVE	GLENDALE DR	MAPLE RIDGE DR	260	300	D.I.	1981	2001		20	2
2001	PICKERING	HILLVIEW CR	PARK CR	VICKI DR	415	150	C.I.	1964	2001		14	1
2001	PICKERING	LIVERPOOL RD	WHARF ST	25m N. OF BROADVIEW ST	200	200	C.I.	1964	2001		34	2
2001	PICKERING	OKLAHOMA DR	BREEZY DR	WEST SHORE BLVD	395	200	C.I.	1965	2001		29	3
2001	PICKERING	VICKI DR	WEST SHORE BLVD	HILLCREST RD	355	200	C.I.	1964	2001		19	2
2001	PICKERING	VICTORY DR	PARK CR	70m N. OF PARK CR	70	200	C.I.	1965	2001		37	3
2001	PICKERING	VICTORY DR	VICKI DR	35m S. OF VICKI DR	35	200	C.I.	1965	2001		39	3
2001	UXBRIDGE	COLONEL SHARPE CR	QUAKER VILLAGE DR	30m W. OF QUAKER VILLAGE DR	30	400	D.I.	1980	2001		7	1
2001	UXBRIDGE	QUAKER VILLAGE DR	COLONEL SHARPE CR	220m S. OF COLONEL SHARPE CR	220	400	D.I.	1980	2001		33	2
2001	WHITBY	MAPLE ST W	CENTRE ST N	40m E. OF BYRON ST	130	300	D.I.	1976	2001		15	1
2001	WHITBY	PEEL ST	TRENT ST	75m N. OF ONTARIO ST	315	150	C.I.	1950	2001		29	2
2001	WHITBY	TRENT ST	ATHOL ST	55m E. OF ATHOL ST	55	150	D.I.	1978	2001		6	0
					10,365						1,012	73

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YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2002	BOWMANVILLE	HILLIER ST	SPRY AVE	QUINN DR	310	150	D.I.	1973	2002		23	2
2002	BOWMANVILLE	LAWRENCE CR	SPRY AVE	QUINN DR	275	150	D.I.	1973	2002		25	2
2002	BOWMANVILLE	LOSCOMBE DR	E/L @ SPRY AVE	W/L @ SPRY AVE	495	150	D.I.	1973	2002		41	4
2002	BOWMANVILLE	SPRY AVE	BASELINE RD	LOSCOMBE DR	705	150	D.I.	1975	2002		55	3
2002	OSHAWA	ADMIRAL RD	PARK RD	90M W. OF PARK RD (W/L OF WM)	90	150	C.I.	1959	2002		7	1
2002	OSHAWA	BADER AVE	ROSMERE ST	FINUCANE ST	190	150	C.I.	1955	2002		15	1
2002	OSHAWA	BARKLEY CR	S/L @ VANCOUVER ST	N/L @ VANCOUVER ST	310	150	C.I.	1966	2002		28	3
2002	OSHAWA	CABOT ST	GIBB ST	KING ST W	805	150	C.I.	1959	2002		66	6
2002	OSHAWA	CARTIER AVE	STEVENSON RD S	WAVERLY ST	385	150	C.I.	1957	2002		30	3
2002	OSHAWA	CUNNINGHAM AVE	ROSMERE ST	FINUCANE ST	180	150	C.I.	1956	2002		15	1
2002	OSHAWA	DURHAM ST	CARTIER AVE	MONTCALM AVE	265	150	C.I.	1960	2002		24	2
2002	OSHAWA	DURHAM ST	DURHAM CT	GIBB ST	210	150	C.I.	1960	2002		17	1
2002	OSHAWA	DURHAM ST	GIBB ST	250m N. OF GIBB ST (N/L OF WM)	250	150	C.I.	1960	2002		26	2
2002	OSHAWA	FAIRLAWN ST	ANNAPOLIS AVE	MARION AVE	285	150	C.I.	1955	2002		26	2
2002	OSHAWA	FERNHILL BLVD	ANNAPOLIS AVE	MARION AVE	295	150	C.I.	1955	2002		22	2
2002	OSHAWA	FERNHILL BLVD	CUNNINGHAM AVE	ROSSLAND RD	390	150	C.I.	1955	2002		32	2
2002	OSHAWA	FERNHILL BLVD	LOWELL AVE	FAIRLEIGH AVE	60	150	D.I.	1973	2002		6	0
2002	OSHAWA	FINUCANE ST	BEURLING AVE	BADER AVE	600	150	C.I.	1955	2002		46	3
2002	OSHAWA	GARDEN CT	PARK RD N	END OF CT (W/L)	45	150	C.I.	1957	2002		4	1
2002	OSHAWA	HARLOW AVE	WAVERLY ST	VANCOUVER ST	150	200	C.I.	1965	2002		14	1
2002	OSHAWA	MALAN AVE	GIBBONS ST	ROSMERE AVE	80	150	C.I.	1957	2002		6	0
2002	OSHAWA	MARION AVE	35m W. OF NIPIGON ST	FINUCANE ST	445	150	C.I.	1956	2002		34	2
2002	OSHAWA	MARION AVE	NIPIGON ST	35m W. OF NIPIGON ST	35	150	PVC (C.I.)	1979	2002		3	1
2002	OSHAWA	MURIEL AVE	PARK RD	NIPIGON ST	195	150	C.I.	1951	2002		19	2
2002	OSHAWA	NIPIGON ST	RIDGEWAY AVE	ANNAPOLIS AVE	235	150	C.I.	1951	2002		18	2
2002	OSHAWA	PERRY CR	N/L @ CABOT ST	S/L @ CABOT ST	305	150	C.I.	1957	2002		25	2
2002	OSHAWA	ROSMERE ST	ANNAPOLIS AVE	BADER AVE	680	150	C.I.	1955	2002		55	4
2002	OSHAWA	SATURNA AVE	WAVERLY ST	BARKLEY CR	70	150	C.I.	1966	2002		5	0
2002	OSHAWA	TURF CT	PARK RD	END OF CT (E/L)	30	150	D.I.	1980	2002		3	0
2002	OSHAWA	VALDEZ CT	HARLOW AVE	END OF CT (N/L)	90	150	C.I.	1965	2002		7	0
2002	OSHAWA	VANCOUVER CT	HARLOW AVE	END OF CT (N/L)	170	150	C.I.	1965	2002		16	1
2002	OSHAWA	VANCOUVER ST	GIBB ST	55m N. OF GIBB ST	55	150	D.I.	1966	2002		6	1
2002	OSHAWA	VANCOUVER ST	HARLOW AVE	55m N. OF GIBB ST	460	200	C.I.	1966	2002		37	3
2002	OSHAWA	VILLA CT	PARK RD	END OF CT (E/L)	30	150	D.I.	1970	2002		3	0
2002	OSHAWA	WALMER RD	PARK RD	NIPIGON ST	140	150	C.I.	1958	2002		13	2
2002	OSHAWA	WAVERLY ST	GIBB ST	55m N. OF GIBB ST	55	150	D.I.	1961	2002		5	1
2002	OSHAWA	WAVERLY ST	MONTCALM AVE	115m S. OF SATURNA AVE	545	150	C.I.	1961	2002		36	2
2002	OSHAWA	WELLAND AVE	PARK RD	GIBBONS ST	145	150	C.I.	1957	2002		11	1
2002	PICKERING	EAGLEVIEW DR	GLENANNA RD	HUNTSMILL DR	415	150	D.I.	1984	2002		35	3
2002	PICKERING	HUNTSMILL DR	GLENANNA RD	EAGLEVIEW DR	330	200	D.I.	1984	2002		31	2
2002	PICKERING	MONTCASTLE CR	N/L @ HUNTSMILL DR	165m S. OF S/L OF HUNTSMILL DR	580	150	D.I.	1984	2002		51	3
2002	PICKERING	REDBIRD CR	N/L @ HUNTSMILL DR	S/L @ HUNTSMILL DR	460	150	D.I.	1984	2002		42	3
2002	PICKERING	SILVER SPRUCE DR	GLENANNA RD	EAGLEVIEW DR	300	150	D.I.	1984	2002		24	2
2002	UXBRIDGE	QUAKER VILLAGE DR	BROCK ST (REG RD 8)	85m N. OF BROCK ST (REG RD 8)	85	400	D.I.	1980	2002		16	1

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2002	UXBRIDGE	QUAKER VILLAGE DR	WIDDFIELD DR	115m N. OF WIDDFIELD DR	165	400	D.I.	1980	2002		14	0
					12,395						1,037	80
2003	BOWMANVILLE	HETHERINGTON DR	N/L @ LAWRENCE CR	END OF DR (S/L)	430	150	DI	1973	1993	2003	31	2
2003	BOWMANVILLE	HOLGATE CR	N/L @ HETHERINGTON DR	45m E. OF HETHERINGTON DR	45	150	DI	1973	2003		6	0
2003	BOWMANVILLE	HOLGATE CR	S/L @ HETHERINGTON DR	70m E. OF HETHERINGTON DR	70	150	DI	1973	2003		6	1
2003	BOWMANVILLE	LAWRENCE CR	QUINN DR	WAVERLY RD	650	150	DI	1973	2003		54	2
2003	BOWMANVILLE	QUINN DR	LAWRENCE CR	WAVERLY RD	300	150	DI	1973	1993	2003	27	2
2003	OSHAWA	BALMORAL DR	TWEEDSMUIR ST	80m W. OF TWEEDSMUIR ST	80	150	D.I.	1975	2003		7	0
2003	OSHAWA	BALMORAL DR	WAVERLY ST N	160m E. OF WAVERLY ST N	160	150	C.I.	1966	2003		13	1
2003	OSHAWA	BRAEMOR CT	INVERNESS DR	END OF CT (E/L)	130	150	C.I.	1964	2003		13	1
2003	OSHAWA	BUCHAN AVE	WAVERLY ST N	TWEEDSMUIR ST	155	150	C.I.	1961	2003		15	1
2003	OSHAWA	COLONSAY CT	WAVERLY ST N	END OF CT (S/L)	100	150	D.I.	1975	2003		12	1
2003	OSHAWA	DUNDEE AVE	WAVERLY ST N	ELEZABETH ST	320	150	C.I.	1964	2003		31	2
2003	OSHAWA	DURHAM CT	DURHAM ST	END OF CT (W/L)	110	150	D.I.	1970	1993	2003	8	1
2003	OSHAWA	ELIZABETH ST	ADELAIDE ST W	DUNDEE AVE	370	150	C.I.	1953	2003		29	2
2003	OSHAWA	ELIZABETH ST	DUNDEE AVE	MARION AVE	475	150	C.I.	1964	2003		44	2
2003	OSHAWA	FAIRLAWN ST	RIDGEWAY AVE	ANNAPOLIS AVE	240	150	C.I.	1973	2003		21	2
2003	OSHAWA	FAIRLEIGH AVE	FERNHILL BLVD	GIBBONS ST	170	150	C.I.	1941	2003		18	1
2003	OSHAWA	GIBBONS ST	ROSSLAND RD W	ANNAPOLIS AVE	790	150	C.I.	1957	2003		73	5
2003	OSHAWA	GREENOCH CT	LANARK DR	END OF CT (W/L)	10	100	D.I.	1970	1992	2003	2	0
2003	OSHAWA	INVERNESS DR	DUNDEE AVE	ANNAPOLIS AVE	270	150	C.I.	1963	2003		24	2
2003	OSHAWA	LANARK DR	ANNAPOLIS AVE	WAVERLY ST N	310	150	D.I.	1975	1991	2003	24	2
2003	OSHAWA	LOWELL AVE	STEVENSON RD N	FERNHILL BLVD	190	150	C.I.	1956	2003		16	1
2003	OSHAWA	MITCHELL AVE	140m W. OF DREW ST	280m W. OF DREW ST	140	400	C.I.	1957	2003		23	1
2003	OSHAWA	MITCHELL AVE	DREW ST	90m W. OF DREW ST	90	400	D.I.	1957	2003		17	1
2003	OSHAWA	RADISSON AVE	90m E. OF WAVERLY ST	DURHAM ST	190	150	C.I.	1968	2003		21	1
2003	OSHAWA	RADISSON AVE	WAVERLY ST	90m E. OF WAVERLY ST	90	150	D.I.	1968	2003		11	1
2003	OSHAWA	RIDGEWAY AVE	STEVENSON RD N	W/L 50m W. OF ELIZABETH ST	170	150	C.I.	1953	2003		16	1
2003	OSHAWA	TATRA DR	THORNTON RD N	END OF CT (S/L)	260	200	D.I.	1971	1993	2003	26	1
2003	OSHAWA	TWEEDSMUIR ST	ANNAPOLIS AVE	BUCHAN AVE	125	150	C.I.	1961	2003		11	1
2003	OSHAWA	TWEEDSMUIR ST	BUCHAN AVE	BALMORAL DR	175	150	D.I.	1975	2003		18	1
2003	OSHAWA	VANCOUVER CR	W/L @ GIBB ST	E/L @ GIBB ST	425	150	C.I.	1969	2003		44	3
2003	OSHAWA	WAVERLY ST N	100m S. of DUNDEE AVE	LANARK DR	615	200	C.I.	1965	2003		52	3
2003	OSHAWA	WAVERLY ST S	GIBB ST	END OF ST (S/L)	150	150	D.I.	1968	2003		15	1
2003	PICKERING	BROOKSHIRE SQ	GLENANNA RD	250m S. OF GLENANNA RD	250	150	D.I.	1986	2003		19	2
2003	PICKERING	EDGE LN	EYER DR	END OF LN (S/L)	15	150	D.I.	1979	1993	2003	1	0
2003	PICKERING	EYER DR	DOWNLAND DR	OKLAHOMA DR	320	200	D.I.	1976	1993	2003	32	2
2003	PICKERING	EYER DR	OKLAHOMA DR	HILLCREST RD	675	150	D.I.	1979	1993	2003	52	3
2003	PICKERING	FINCH AVE	DARWIN DR	120m W. OF SPRUCE HILL RD	325	250	D.I.	1968	2003		38	1
2003	PICKERING	GLENANNA RD	FAIRPORT RD	BROOKSHIRE SQ	285	300	D.I.	1984	2003		36	2
2003	PICKERING	SANDSTONE MNR	GRANITE CT	END OF MNR (S/L)	295	300	D.I.	1981	1992	2003	34	2
2003	PICKERING	STONEBRIDGE LN	EYER DR	DOWNLAND DR	485	150	D.I.	1977	1993	2003	47	3
					10,455						987	61

TABLE 2

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY

December 2007



YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2004	BOWMANVILLE	RHONDA AVE	LAWRENCE GATE	85m S. OF DOREEN CR	220	200	D.I.	1972	2004		24	2
2004	BOWMANVILLE	RHONDA AVE	WAVERLY RD	85m S. OF DOREEN CR	390	150	D.I.	1972	2004		40	3
2004	BOWMANVILLE	ROSALYNNE CR	N/L @ RHONDA AVE	S/L @ RHONDA AVE	375	150	D.I.	1972	2004		35	3
2004	OSHAWA	FAIRGLEN AVE	FERNDALE ST	STEVENSON RD	75	150	D.I.	1970	2004		9	1
2004	OSHAWA	FERNDALE ST	ROSS AVE	FAIRGLEN AVE	380	200	D.I.	1970	2004		42	3
2004	OSHAWA	FERNHILL BLVD	ROSSLAND RD	JANE AVE	355	200	C.I.	1965	2004		70	5
2004	OSHAWA	GIBBONS ST	GLENDALE AVE	GLENMAR AVE	140	150	C.I.	1963	2004		13	1
2004	OSHAWA	GLENALAN AVE	GLENFOREST ST	GLENBRAE ST	140	150	C.I.	1959	2004		12	2
2004	OSHAWA	GLENBRAE ST	GLENCASTLE AVE	JANE AVE	195	150	C.I.	1959	2004		18	2
2004	OSHAWA	GLENBROOK ST	JANE AVE	END OF ST (N/L)	45	150	C.I.	1961	2004		4	1
2004	OSHAWA	GLENCAIRNE ST	75m S. OF ROSSMOUNT AVE	GLENMANOR DR	195	150	C.I.	1958	2004		20	2
2004	OSHAWA	GLENCASTLE AVE	GLENRUSH ST	GLENGROVE ST	155	150	C.I.	1959	2004		12	1
2004	OSHAWA	GLENDALE AVE	GLENFOREST ST	GLENGROVE ST	225	150	C.I.	1958	2004		18	2
2004	OSHAWA	GLENECHO ST	GLENDALE AVE	GLENMAR AVE	130	150	C.I.	1963	2004		14	1
2004	OSHAWA	GLENFOREST ST	GLENDALE AVE	JANE AVE	510	150	C.I.	1958	2004		48	4
2004	OSHAWA	GLENGROVE ST	GLENDALE AVE	GLENCASTLE AVE	300	150	C.I.	1957	2004		25	2
2004	OSHAWA	GLENMAR AVE	GLENECHO ST	GIBBONS ST	80	150	C.I.	1963	2004		7	1
2004	OSHAWA	GLENRUSH ST	GLENCASTLE AVE	GLENALAN AVE	120	150	C.I.	1960	2004		11	1
2004	OSHAWA	JANE AVE	FERNHILL BLVD	GLENMANOR DR	530	150	C.I.	1963	2004		51	4
2004	OSHAWA	NORTHCLIFFE AVE	GLENCAIRNE ST	WESTDALE AVE	110	150	C.I.	1959	2004		11	1
2004	OSHAWA	ROSS AVE	FERNHILL BLVD	STEVENSON RD	135	200	D.I.	1970	2004		15	1
2004	OSHAWA	ROSSMOUNT AVE	FERNHILL BLVD	WESTDALE AVE	405	150	C.I.	1957	2004		33	4
2004	OSHAWA	WESTDALE CT	WOODLEA AVE	END OF CT (S/L)	55	150	C.I.	1958	2004		5	0
2004	OSHAWA	WESTDALE ST	WOODLEA AVE	JANE AVE	460	150	C.I.	1959	2004		44	4
2004	OSHAWA	WOODLEA AVE	WESTDALE ST	GLENMANOR DR	185	150	C.I.	1956	2004		19	2
2004	OSHAWA	WOODLEA CR	N/L @ GLENMANOR DR	S/L @ GLENMANOR DR	290	150	C.I.	1956	2004		29	2
2004	PICKERING	ALDERWOOD CT	COLMAR AVE	END OF CT (S/L)	100	150	C.I.	1960	2004		9	1
2004	PICKERING	BAYLY ST	200m E. OF WEST SHORE BLVD	665m E. OF WEST SHORE BLVD	465	350	C.I.	1965	2004		65	4
2004	PICKERING	BROADVIEW ST	LIVERPOOL RD	ANNLAND ST	270	150	C.I.	1960	2004		24	1
2004	PICKERING	COLMAR AVE	BALATON AVE	LUBLIN AVE	365	300	C.I.	1960	2004		40	3
2004	PICKERING	CORTEZ AVE	COLMAR AVE	BALATON AVE	220	150	C.I.	1960	2004		22	2
2004	PICKERING	KINGFISHER DR	COLMAR AVE	BALATON AVE	235	200	C.I.	1960	2004		22	2
2004	PICKERING	KINGSTON RD	STEEPLE HILL	60m E. OF STEEPLE HILL	60	400	D.I.	1977	2004		9	1
2004	PICKERING	LUBLIN AVE	PARKHAM CR	ALYSSUM ST	550	300	C.I.	1960	2004		66	4
2004	PICKERING	PARKHAM CR	COLMAR AVE	SANDY BEACH RD	293	150	C.I.	1967	2004		29	3
2004	PICKERING	PLEASANT ST	ANNLAND ST	COMMERCE ST	145	150	C.I.	1965	2004		12	1
					8,903						927	77
2005	BOWMANVILLE	BASELINE RD	WAVERLY RD	800m E. OF WAVERLY RD	840	300	D.I.	1970	1992	2005	97	5
2005	BOWMANVILLE	STRIKE AVE	LITTLE AVE (S/L)	WAVERLY RD.	405	150	D.I.	1970	2005		32	3
2005	OSHAWA	ATHABASCA ST	ERINLEA AVE	LABRADOR DR	120	200	C.I.	1965	2005		13	1
2005	OSHAWA	ATHABASCA ST	LABRADOR DR	HIGHWAY NO 2	495	150	C.I.	1953	2005		35	4
2005	OSHAWA	BELAIR CR	ELDORADO DR	ELDORADO DR	440	300	D.I.	1974	2005		46	3
2005	OSHAWA	BERWICK CR	N/L @ WAVERLY ST N	S/L @ WAVERLY ST N	390	150	D.I.	1969	1992	2005	32	2

TABLE 2

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY
December 2007



YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2005	OSHAWA	DERRY CT	TIPPERARY ST	END OF CT (W/L)	80	150	D.I.	1978	2005		7	0
2005	OSHAWA	EASTLAWN ST	LABRADOR DR	HIGHWAY NO 2	470	150	C.I.	1953	2005		38	3
2005	OSHAWA	ELDORADO DR	FLEETWOOD DR	BELAIR CR	570	200	D.I.	1975	2005		66	5
2005	OSHAWA	FAREWELL ST	WENTWORTH ST E	MARWOOD DR	365	300	D.I.	1968	1995	2005	47	3
2005	OSHAWA	FLEETWOOD DR	ADELAIDE AVE	ELDORADO DR	55	300	D.I.	1975	2005		7	1
2005	OSHAWA	FLEETWOOD DR	ELDORADO DR	End of Dr (S/L)	35	200	D.I.	1975	2005		5	0
2005	OSHAWA	HARCOURT DR	FLORREL DR	HARCOURT CT	155	150	D.I.	1968	1992	2005	15	1
2005	OSHAWA	HARCOURT DR	OLIVE AVE	FLORREL DR	130	150	C.I.	1965	1992	2005	10	1
2005	OSHAWA	KEEWATIN ST. S.	OLIVE AVE	WILLOWDALE AVE.	500	200	D.I.	1957-197	2005		51	3
2005	OSHAWA	KEEWATIN ST. S.	WILLOWDALE AVE.	KING ST. E.	545	400	D.I.	1957-1972	2005		76	4
2005	OSHAWA	LAGUNA DR	ELDORADO DR	ADELAIDE AVE	100	300	D.I.	1975	2005		12	1
2005	OSHAWA	MALIBU ST	ELDORADO DR	END OF ST (S/L)	60	200	D.I.	1975	2005		5	1
2005	OSHAWA	SHAMROCK CT	TIPPERARY ST	END OF CT (N/L)	180	150	D.I.	1978	2005		14	2
2005	OSHAWA	TIPPERARY ST	GIBB ST	SHAMROCK CT	140	150	D.I.	1978	2005		13	1
2005	OSHAWA	WAVERLY ST N	ROSSLAND RD W	150mm EASEMENT ON WAVERLY ST N	185	200	D.I.	1969	1991	2005	19	1
2005	AJAX	BOLLAND CR.	CLOVER RIDGE DR.	CLOVER RIDGE DR.	820	250	D.I.	1968	1991	2005	88	5
2005	AJAX	CLOVER RIDGE DR E	HARWOOD AVE	McCLARNAN RD	375	300	D.I.	1968	1989	2005	41	3
2005	AJAX	CLOVER RIDGE DR W	BOLLAND CR (N/L)	HARWOOD AVE	435	300	D.I.	1973	1991	2005	58	4
2005	AJAX	COWLING CR	THE LAKE DRIVEWAY E	LAWRIE RD	400	150	D.I.	1970	1986	2005	36	2
2005	AJAX	HARWOOD AVE	DREYER DR W	CLEMENTS RD E	375	400	D.I.	1973	1991	2005	48	2
2005	AJAX	LAWRIE RD	THE LAKE DRIVEWAY E	CLOVER RIDGE DR E	375	150	D.I.	1970	1986	2005	33	2
2005	AJAX	LEWIN CR	THE LAKE DRIVEWAY E	McCLARNAN RD	450	150	D.I.	1973	1985	2005	35	3
2005	PICKERING	SALK RD	BAYLY ST	END OF RD (N/L)	475	200	D.I.	1969	1989	2005	41	3
2005	PICKERING	WHITES RD.	SHEPARD DR.	SHADYBROOK DR. EASEMENT	60	300	D.I.	1968	1989	2005	6	1
					10,025						1,026	70

TABLE 2

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY

December 2007



YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2006	BOWMANVILLE	COLE AVE	LAWRENCE CR	END OF RD	270	150	D.I.	1973	2006		48	3
2006	BOWMANVILLE	DOREEN CR	RHONDA AVE	END OF CR	510	200	D.I.	1972	2006		22	2
2006	OSHAWA	BALSAM CR	N/L @ CEDAR ST	S/L @ CEDAR ST	295	150	D.I.	1973	2006		29	2
2006	OSHAWA	BON ECHO DR	LAKEVIEW AVE	STONE ST	320	150	D.I.	1973	2006		38	2
2006	OSHAWA	DWIGHT AVE	CEDAR ST	OXFORD ST	390	150	D.I.	1969	2006		34	3
2006	OSHAWA	FENELON CR	S/L @ PARK RD	N/L @ PARK RD	810	200	D.I.	1975	2006		76	5
2006	OSHAWA	KILARNEY CT	CEDAR ST	W/L OF CT	195	150	D.I.	1973	2006		15	1
2006	OSHAWA	KINMOUNT CR	OXFORD ST	DWIGHT AVE	520	200	D.I.	1970	2006		49	3
2006	OSHAWA	LAKEVIEW AVE	BON ECHO DR	EVANGELINE DR	275	150	D.I.	1973	2006		23	2
2006	OSHAWA	NEPTUNE CT	VENUS CR	END OF CT	50	100	D.I.	1973	2006		5	0
2006	OSHAWA	OXFORD ST	DWIGHT AVE	KINMOUNT CR	250	150	D.I.	1967	2006		22	2
2006	OSHAWA	OXFORD ST	WENTWORTH ST	KINMOUNT CR	565	200	D.I.	1973	2006		54	4
2006	OSHAWA	VENUS CR	N/L @ CEDAR ST	S/L @ CEDAR ST	430	150	D.I.	1673	2006		37	3
2006	AJAX	FAIRALL ST	DOWTY RD	MCMASTER AVE	530	150	D.I.	1975	2006		46	4
2006	AJAX	FAIRALL ST	MCMASTER AVE	WESTNEY RD S	280	200	D.I.	1975	2006		27	2
2006	AJAX	WESTNEY RD	HARWOOD AVE	RANDS RD	240	150	D.I.	1975	2006		21	2
2006	AJAX	WESTNEY RD	RANDS RD	FINLEY AVE	655	300	D.I.	1975	2006		86	4
					6,585						632	44
2007	PICKERING	BRIAN CT	BROADGREEN RD	N. END OF STREET	95	150	D.I.	1978	2007		6	1
2007	PICKERING	BROADGREEN RD	CREEKVIEW CIR	DOWNLAND DR	725	150	D.I.	1977	2007		67	5
2007	PICKERING	CARMELLO CT	CREEKVIEW CIR	W. End of Street	125	150	D.I.	1977	2007		11	1
2007	PICKERING	CREEKVIEW CIR	DOWNLAND DR	DOWNLAND DR	820	150	D.I.	1977	2007		79	5
2007	PICKERING	DOWNLAND DR	WHITES RD	BROADGREEN RD	440	200	D.I.	1977	2007		40	3
2007	PICKERING	PETTICOAT LN	CREEKVIEW CIR	BROADGREEN RD	120	150	D.I.	1977	2007		11	1
2007	PICKERING	VICTOR CT	BROADGREEN RD	N. END OF STREET	50	150	D.I.	1978	2007		4	1
2007	PICKERING	COMMERCE ST	ANNALAND RD	LIVERPOOL RD	328	200	C.I.	1965	2007		28	2
2007	PICKERING	ILONA PARK RD	LIVERPOOL RD	LIVERPOOL RD	430	150	C.I.	1960	2007		37	3
2007	OSHAWA	BLUE HERON DR	KILLDEER ST	BLUEFINCH CT	85	400	D.I.	1973	2007		40	0
2007	OSHAWA	BLUE HERON DR	BLUEFINCH CT	ADELAIDE AVE	410	200	D.I.	1973	2007		8	1
2007	OSHAWA	BLUEFINCH CT	BLUE HERON DR	KEWATIN ST N EASEMENT	135	400	D.I.	1973	2007		23	1
2007	OSHAWA	BLUEFINCH CT	KEWATIN ST N EASEMENT	E. END OF STREET	20	150	D.I.	1973	2007		1	0
2007	OSHAWA	BLUEJAY CRES	KILLDEER ST	KILLDEER ST	380	150	D.I.	1973	2007		35	3
2007	OSHAWA	CARDINAL CT	BLUE HERON DR	W. END OF STREET	60	150	D.I.	1973	2007		5	0
2007	OSHAWA	GASPE AVE	PARK RD S	TREMBLAY ST	310	150	C.I.	1957	2007		27	2
2007	OSHAWA	KILLDEER ST	ADELAIDE AVE	BLUE HERON DR	430	400	D.I.	1973	2007		64	3
2007	OSHAWA	LAURENTIAN ST	LAKEFIELD ST	OXFORD ST	290	150	C.I.	1957	2007		25	2
2007	OSHAWA	ROSSLAND RD	WAVERLY ST	THORNTON RD	400	450	D.I.	1973	2007		63	3

TABLE 2

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY
December 2007



YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
2007	OSHAWA	SOMERVILLE ST	JONES AVE	RUSSETT AVE	1690	150	C.I.	1965	2007		148	11
2007	OSHAWA	SOMERVILLE ST	PONTIAC AVE	BEATRICE ST	110	400	D.I.	1981	2007		19	1
2007	OSHAWA	SOMERVILLE ST	TECUMSEH AVE	TAUNTON RD	530	300	C.I.	1965	2007		70	4
2007	OSHAWA	KENORA AVE	TREMBLAY ST	LAKEFIELD ST	250	150	C.I.		2007		18	2
					8,233						829	55

TABLE 2



**Region of Durham – Works Department
2007 ANNUAL REPORT
CATHODIC PROTECTION PROGRAMS (1983-2007)**

TABLE 3

CATHODIC PROTECTION INVENTORY–RECONSTRUCTED STREETS

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY
December 2007

YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1983	AJAX	JACWIN DR	CARWIN CR	CLARELYN BLVD	170	150	PVC (D.I.)	1968	1983		16	1
1985	PICKERING	ROUGEMOUNT DR	55m N. OF ROUGE HILL CT	ALTONA RD	795	150	PVC (D.I.)	1988	1985		43	0
1986	AJAX	CARWIN CR	MILL ST	MARWIN RD	360	150	PVC (D.I.)	1968	1986		24	3
1986	AJAX	CLARELYN BLVD	JACWIN DR	MILL ST	205	150	PVC (D.I.)	1968	1986		15	1
1986	AJAX	ETHLYN CT	CLARELYN BLVD	END OF CT (S/L)	42	150	PVC (D.I.)	1968	1986		4	1
1986	AJAX	JALLAN DR	JACWIN DR	CARWIN CR	245	150	PVC (D.I.)	1968	1986		17	1
1986	AJAX	MARWIN RD	130m N. OF JACWIN DR	END OF RD (N/L)	160	150	PVC (D.I.)	1972	1986		11	1
1987	PICKERING	GLENDALE DR	GLENANNA RD	KINGSTON RD	341	150	PVC (D.I.)	1994	1987		23	2
1988	PICKERING	FAIRPORT RD	DUNBARTON RD	STROUDS LN	790	250	PVC (D.I.)	1995	1988		76	4
1988	PICKERING	GLENGROVE RD	KINGSTON RD	GLENVIEW RD	430	150	PVC (D.I.)	1989	1988		27	2
1988	PICKERING	GLENVIEW RD	S/L @ GLENGROVE RD	N/L @ GLENGROVE RD	340	150	PVC (D.I.)	1989	1988		23	1
1989	AJAX	THE LAKE DRIVEWAY E	LEWIN CR	McCLARNAN RD	125	450	AC (D.I.)	1995	1989		18	1
1989	AJAX	THE LAKE DRIVEWAY E	HARWOOD AVE	LEWIN CR	500	150	PVC (D.I.)	1999	1989		35	3
1989	PICKERING	ROSEBANK RD	140m N. OF FOXWOOD TRAIL	FINCH AVE	1,500	150	PVC (D.I.)	1994	1989		102	6
1991	AJAX	BURNINGHAM CR	W/L @ LINCOLN ST	E/L @ LINCOLN ST	400	150	PVC (D.I.)	1972	1991		23	3
1991	AJAX	DINGLEY CT	LINCOLN ST	END OF CT (N/L)	100	150	PVC (D.I.)	1972	1991		7	1
1992	BOWMANVILLE	MARTIN RD	BASELINE RD	PRESTONWAY DR	685	200	PVC (D.I.)	1986	1992		52	5
1992	OSHAWA	FIFE CT	WAVERLY ST N	END OF CT (E/L)	50	100	PVC (D.I.)	1995	1992		2	0
1993	PICKERING	GLENDALE RD	GLENANNA RD	FINCH AVE	780	150	PVC (D.I.)	1967	1993		49	5
1993	PICKERING	GLOUCESTER SQ	120m N. OF GLOUCESTER SQ (S LEG)	210m N. OF GLOUCESTER SQ (S. LEG)	90	150	PVC (D.I.)	1988	1993		10	1
1995	OSHAWA	WAVERLY ST N	ROSSLAND RD W	BERMUDA AVE	355	200	PVC (D.I.)	2001	1995		29	3
1996	OSHAWA	GUELPH ST	TAYLOR AVE	OLIVE AVE	330	150	PVC (D.I.)	2000	1996		21	2
1996	OSHAWA	SHAKESPEARE AVE	FAREWELL ST	ADDISON ST	250	150	PVC (C.I.)	1998	1996		18	2
1996	PICKERING	WEST SHORE BLVD	VISTULA DR	HILLCREST RD	140	400	PVC (C.I.)	1999	1996		17	1
1996	WHITBY	CROCUS CR	LILAC TERRACE	HUTCHINSON AVE	75	150	PVC (C.I.)	1953	1996		5	1
1996	WHITBY	HUTCHINSON AVE	LUPIN DR	DOVEDALE DR	275	150	PVC (C.I.)	2002	1996		19	2
1997	PICKERING	ESSA CR	BATORY AVE	BREEZY DR	530	150	PVC (C.I.)	1964	1997		45	3
1998	OSHAWA	DOWN CR	200mm EASEMENT ON DOWN CR	35m W. OF TOWNLINE RD	350	200	PVC (D.I.)	1976	1998		33	1
1998	WHITBY	HWY #2 (DUNDAS ST W)	120m E. OF HALLS RD N	265m W. OF CORONATION RD	440	200	PVC (D.I.)	2002	1998		24	2
2000	BOWMANVILLE	ALONNA ST	MARTIN RD	150mm EASEMENT ON ALONNA ST	150	150	PVC (D.I.)	1974	2000		14	1
2000	BOWMANVILLE	ROSER CR	MARTIN RD	80M E. OF MARTIN RD	80	150	PVC (D.I.)	1986	2000		7	1
2001	BROOKLIN	VIPOND RD	MONTGOMERY AVE	HERBERDOWN CR	90	200	PVC (C.I.)	2002	2001		9	1
2002	OSHAWA	MARION AVE	NIPIGON ST	35m W. OF NIPIGON ST	35	150	PVC (C.I.)	1979	2002		3	1
Reconstructed Street Totals					11,208						821	63

TABLE 3



**Region of Durham – Works Department
2007 ANNUAL REPORT
CATHODIC PROTECTION PROGRAMS (1983-2007)**

TABLE 4

CATHODIC PROTECTION INVENTORY–REPROTECTED STREETS

REGION OF DURHAM CATHODIC PROTECTION PROGRAM SUMMARY
December 2007

YEAR OF CP PROGRAM	TOWN	ST	FROM	TO	LENGTH (m)	PIPE DIA.	PIPE MAT.	YEAR OF CONST.	YEAR OF C.P.	YEAR OF 2nd CP	# of Anodes	# of T.S.
1985	AJAX	LEWIN CR	THE LAKE DRIVEWAY E	McCLARNAN RD	435	150	D.I.	1973	1985	2005	32	3
1986	AJAX	COWLING CR	THE LAKE DRIVEWAY E	LAWRIE RD	385	150	D.I.	1970	1986	2005	28	3
1986	AJAX	LAWRIE RD	THE LAKE DRIVEWAY E	CLOVER RIDGE DR E	370	150	D.I.	1970	1986	2005	24	3
1988	PICKERING	BONITA AVE	FAIRPORT RD	APPLEVIEW RD	270	200	D.I.	1970	1988	1993	24	2
1989	AJAX	CLOVER RIDGE DR E	HARWOOD AVE	CRAWFORD DR	500	300	D.I.	1970	1989	2005	48	3
1989	PICKERING	SALK RD	BAYLY ST	END OF RD (N/L)	391	200	D.I.	1969	1989	2005	25	1
1991	OSHAWA	LANARK DR	ANNAPOLIS AVE	WAVERLY ST N	310	150	D.I.	1975	1991	2003	21	2
1991	AJAX	BOLLAND CR	N/L @ CLOVER RIDGE DR W	S/L @ CLOVER RIDGE DR W	807	150	D.I.	1974	1991	2005	71	6
1991	AJAX	CLOVER RIDGE DR W	BOLLAND CR (N/L)	HARWOOD AVE	460	300	D.I.	1973	1991	2005	19	2
1991	AJAX	HARWOOD AVE	DREYER DR W	CLEMENTS RD E	420	400	D.I.	1973	1991	2005	52	3
1991	OSHAWA	WAVERLY ST N	ROSSLAND RD W	150mm EASEMENT ON WAVERLY ST N	185	200	D.I.	1969	1991	2005	16	1
1992	OSHAWA	GREENOCH CT	LANARK DR	END OF CT (W/L)	40	100	D.I.	1970	1992	2003	5	0
1992	PICKERING	SANDSTONE MNR	GRANITE CT	END OF MNR (S/L)	295	300	D.I.	1981	1992	2003	19	2
1992	BOWMANVILLE	BASELINE RD	WAVERLY RD	400m W. OF WAVERLY RD	800	300	D.I.	1970	1992	2005	103	6
1992	OSHAWA	BERWICK CR	N/L @ WAVERLY ST N	S/L @ WAVERLY ST N	370	150	D.I.	1969	1992	2005	25	2
1992	OSHAWA	HARCOURT DR	FLORREL DR	HARCOURT CT	90	150	D.I.	1968	1992	2005	7	1
1992	OSHAWA	HARCOURT DR	OLIVE AVE	FLORREL DR	115	150	C.I.	1965	1992	2005	11	1
1993	OSHAWA	DURHAM CT	DURHAM ST	END OF CT (W/L)	110	150	D.I.	1970	1993	2003	7	1
1993	PICKERING	EDGE LN	EYER DR	END OF LN (S/L)	115	150	D.I.	1979	1993	2003	7	1
1993	PICKERING	EYER DR	DOWNLAND DR	OKLAHOMA DR	320	200	D.I.	1976	1993	2003	29	2
1993	PICKERING	EYER DR	OKLAHOMA DR	HILLCREST RD	675	150	D.I.	1979	1993	2003	60	6
1993	BOWMANVILLE	HETHERINGTON DR	N/L @ LAWRENCE CR	END OF DR (S/L)	430	150	D.I.	1973	1993	2003	33	3
1993	BOWMANVILLE	QUINN DR	LAWRENCE CR	125m W. OF LAWRENCE CR	125	150	D.I.	1973	1993	2003	8	1
1993	PICKERING	STONEBRIDGE LN	EYER DR	DOWNLAND DR	485	150	D.I.	1977	1993	2003	40	4
1993	OSHAWA	TATRA DR	THORNTON RD N	END OF DR (S/L)	250	200	D.I.	1971	1993	2003	18	2
1995	OSHAWA	FAREWELL ST	WENTWORTH ST E	MARWOOD DR	390	300	D.I.	1968	1995	2005	43	2
Reconstructed Street Totals					9,143						775	63

TABLE 4



Region of Durham – Works Department
2007 ANNUAL REPORT
CATHODIC PROTECTION PROGRAMS (1983-2007)

TABLE 5

BREAK COSTS BY DEPOT & AVERAGE BREAK COST

**TOTAL COSTS FOR WATERMAIN BREAKS BY DEPOT
(ALL DATA WAS OBTAINED FROM THE MAINTENANCE
MANAGEMENT SYSTEM & 2007 BREAK REPORTS)**

CALCULATION OF 2007 AVERAGE BREAK COST					
DEPOT					
	Ajax	Oshawa	Orono	Sunderland	Scugog
	\$207,720	\$742,466	\$43,348	\$22,104	
# of Breaks	38	152	13	10	0
Avg. Cost	\$5,466.32	\$4,884.64	\$3,334.46	\$2,210.40	

CALCULATION OF AVERAGE ANNUAL COST per BREAK					
YEAR	DEPOT				AVERAGE
	AJAX	OSHAWA	ORONO	SCUGOG	
1983	\$1,238	\$1,895	\$1,045	\$687	\$1,216
1984	\$1,347	\$2,206	\$1,852	\$911	\$1,579
1985	\$1,653	\$2,193	\$1,685	\$1,104	\$1,659
1986	\$1,868	\$2,443	\$2,088	\$1,011	\$1,852
1987	\$2,051	\$2,595	\$2,501	\$1,029	\$2,044
1988	\$2,328	\$2,599	\$2,562	\$1,298	\$2,197
1989	\$2,554	\$2,857	\$2,141	\$1,830	\$2,346
1990	\$2,657	\$3,185	\$2,616	\$2,285	\$2,686
1991	\$2,558	\$2,600	\$1,812	\$2,736	\$2,427
1992	\$3,981	\$2,748	\$1,678	\$2,641	\$2,762
1993	\$5,668	\$4,461	\$2,613	\$1,299	\$3,510
1994	\$4,129	\$5,630	\$3,285	\$4,938	\$4,496
1995	\$5,130	\$4,020	\$3,193	\$3,292	\$3,909
1996	\$5,131	\$4,601	\$1,511	\$4,584	\$3,957
1997	\$4,115	\$4,445	\$1,959	\$5,050	\$3,892
1998	\$5,095	\$5,128	\$4,248	\$7,145	\$5,404
1999	\$3,836	\$4,236	\$4,231	\$2,808	\$3,778
2000	\$7,256	\$3,784	\$3,375	\$2,264	\$4,170
2001	\$2,664	\$2,981	\$1,411	\$4,664	\$2,930
2002	\$5,282	\$3,797	\$3,085	\$3,513	\$3,919
2003	\$5,037	\$4,010	\$7,510	\$3,917	\$5,119
2004	\$3,792	\$4,728	\$2,276	\$3,646	\$3,611
2005	\$5,738	\$5,168	\$3,946	\$6,359	\$5,303
2006	\$3,847	\$5,940	\$7,225	\$4,587	\$5,400
2007	\$5,466	\$4,885	\$3,334	\$2,210	\$3,974

Note: DATA TAKEN FROM YEARLY MAINTENANCE MANAGEMENT SYSTEM SHEETS

TABLE 5



**Region of Durham – Works Department
2007 ANNUAL REPORT
CATHODIC PROTECTION PROGRAMS (1983-2007)**

TABLE 6

COST COMPARISON & ESTIMATED BREAK COST

COST COMPARISON OF WATERMAIN BREAKS REPAIRED BEFORE AND AFTER CATHODIC PROTECTION

NOTE: THE FOLLOWING COSTS ARE EXPLAINED IN TABLE 4-B

Budget Year	Average Cost per Break	Total Corrosive Break Costs (Actual Costs)		Additional Corrosive Break Costs (Conservative Estimate)		Additional Corrosive Break Costs (Non-Conservative Estimate)	
		# of Breaks / Year	Estimated Repair Cost	# of Breaks / Year	Estimated Repair Cost	# of Breaks / Year	Estimated Repair Cost
1983	\$1,216	98	\$119,181	0	\$0	0	\$0
1984	\$1,579	105	\$165,786	58	\$91,577	118	\$186,311
1985	\$1,659	104	\$172,529	116	\$192,436	236	\$391,508
1986	\$1,852	72	\$133,377	174	\$322,327	354	\$655,768
1987	\$2,044	91	\$185,990	232	\$474,171	472	\$964,694
1988	\$2,197	77	\$169,149	290	\$637,055	590	\$1,296,077
1989	\$2,346	63	\$147,778	348	\$816,300	708	\$1,660,749
1990	\$2,686	51	\$136,966	406	\$1,090,357	826	\$2,218,312
1991	\$2,427	50	\$121,328	464	\$1,125,925	944	\$2,290,675
1992	\$2,762	47	\$129,822	522	\$1,441,850	1,062	\$2,933,419
1993	\$3,510	49	\$171,997	580	\$2,035,883	1,180	\$4,141,968
1994	\$4,496	45	\$202,302	638	\$2,868,194	1,298	\$5,835,292
1995	\$3,909	52	\$203,253	696	\$2,720,462	1,416	\$5,534,733
1996	\$3,957	23	\$91,010	754	\$2,983,529	1,534	\$6,069,938
1997	\$3,892	53	\$206,293	812	\$3,160,558	1,652	\$6,430,100
1998	\$5,404	41	\$221,559	870	\$4,701,380	1,770	\$9,564,876
1999	\$3,778	36	\$136,006	928	\$3,505,924	1,888	\$7,132,741
2000	\$4,170	41	\$170,962	986	\$4,111,435	2,006	\$8,364,644
2001	\$2,930	32	\$93,764	1,044	\$3,059,058	2,124	\$6,223,601
2002	\$3,919	35	\$137,174	1,102	\$4,319,014	2,242	\$8,786,959
2003	\$5,119	24	\$122,844	1,160	\$5,937,460	2,360	\$12,079,660
2004	\$3,611	34	\$122,757	1,218	\$4,397,589	2,478	\$8,946,819
2005	\$5,303	37	\$196,205	1,276	\$6,766,405	2,596	\$13,766,134
2006	\$5,400	28	\$151,193	1,334	\$7,203,267	2,714	\$14,654,922
2007	\$3,974	31	\$123,193	1,392	\$5,531,746	2,832	\$11,254,242
Total Additional		1,319	\$3,832,415	1,392	\$5,531,746	2,832	\$11,254,242

Please Note: This table is representative of the breaks which occurred on all streets, which have been cathodically protected (1983-2007), during the corresponding budget year.

TABLE 6



**Region of Durham – Works Department
2007 ANNUAL REPORT
CATHODIC PROTECTION PROGRAMS (1983-2007)**

TABLE 7

COST ESTIMATED FOR WATERMAIN REPLACEMENT

**THE REGIONAL MUNICIPALITY OF DURHAM
ESTIMATION SHEET FOR WATERWORKS / SEWER**

BUDGET ESTIMATE

PROJECT NUMBER: **T-214-2007** CONSTRUCTION YEAR: **2007**
 DESCRIPTION: **Estimated Watermain Reconstruction Costs
 If Cathodic Protection Was Not Initiated**

MUNICIPALITY: **Various Areas Within The Region of Durham** PREPARED BY: **C. Holoway** April-08

FILE:RECONEST.XLS

ITEM	DESCRIPTION Within Street Prices (Normal)	SIZE (mm)	LENGTH (m)	UNIT COST	ESTIMATED COST
WATERMAIN		100	190	\$200	\$38,000
WATERMAIN		150	119,379	\$252	\$30,083,508
WATERMAIN		200	48,220	\$299	\$14,417,780
WATERMAIN		250	6,460	\$321	\$2,073,660
WATERMAIN		300	22,693	\$343	\$7,783,699
WATERMAIN		350	465	\$475	\$220,643
WATERMAIN		400	8,420	\$606	\$5,102,520
WATERMAIN		450	855	\$673	\$574,988
WATERMAIN		500	1,075	\$739	\$794,425
SUB-TOTAL			207,757		
CONNECTIONS	EXCLUDING 300 mm & LARGER DIA. LENGTHS (167706 / 15) x 2 (two sides of st) x 10m (of pipe)		232332	\$205	\$47,628,060
VALVES	150 mm (Total Length of Pipe/305m spacing)		391	\$1,210	\$473,602
	200 mm		158	\$1,711	\$270,506
	250 mm		21	\$2,346	\$49,689
	300 mm		74	\$2,981	\$221,796
	350 mm		2	\$4,399	\$6,706
	400 mm		28	\$5,816	\$160,560
HYDRANTS	(Total Length of Pipe/150m Residential Spacing)		1385	\$4,714	\$6,529,110
UTILITIES					
SUB-TOTAL					\$116,429,251
GENERAL ITEMS	5 % OF SUB - TOTAL				\$5,821,463
CONTINGENCY	15 % OF SUB - TOTAL				\$17,464,388
CONTRACT COST					\$139,715,101
ENGINEERING I) DESIGN (incl. field survey & soils investigation)	10 % OF CONTRACT COST				\$13,971,510
II) CONSTRUCTION and SUPERVISION	10 % OF CONTRACT COST				\$13,971,510
TOTAL					\$167,658,122
GST	3 % OF TOTAL				\$5,029,744
LAND COST					
TOTAL PROJECT COST					\$172,687,870
ROUNDED					\$172,700,000

TABLE 7

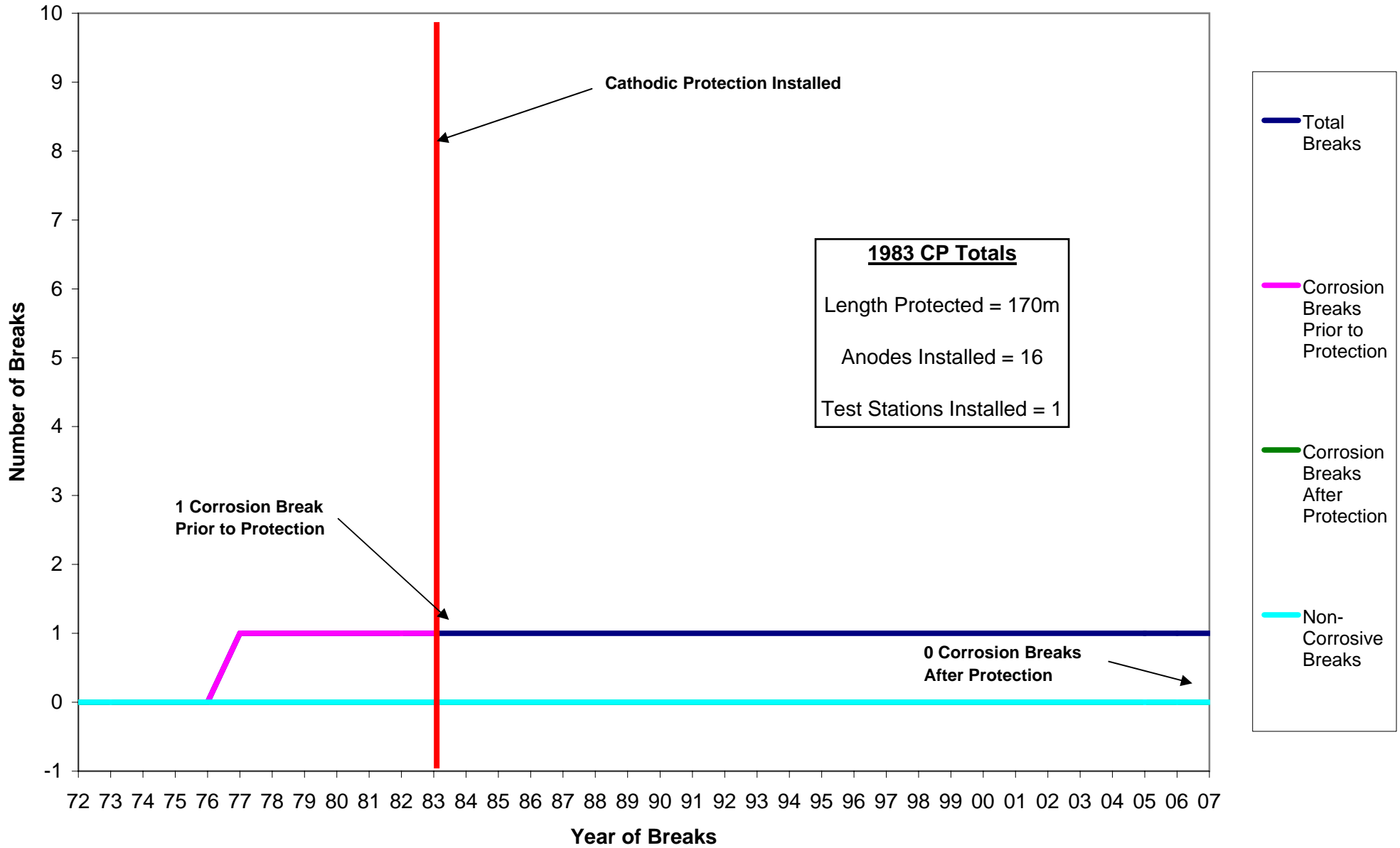


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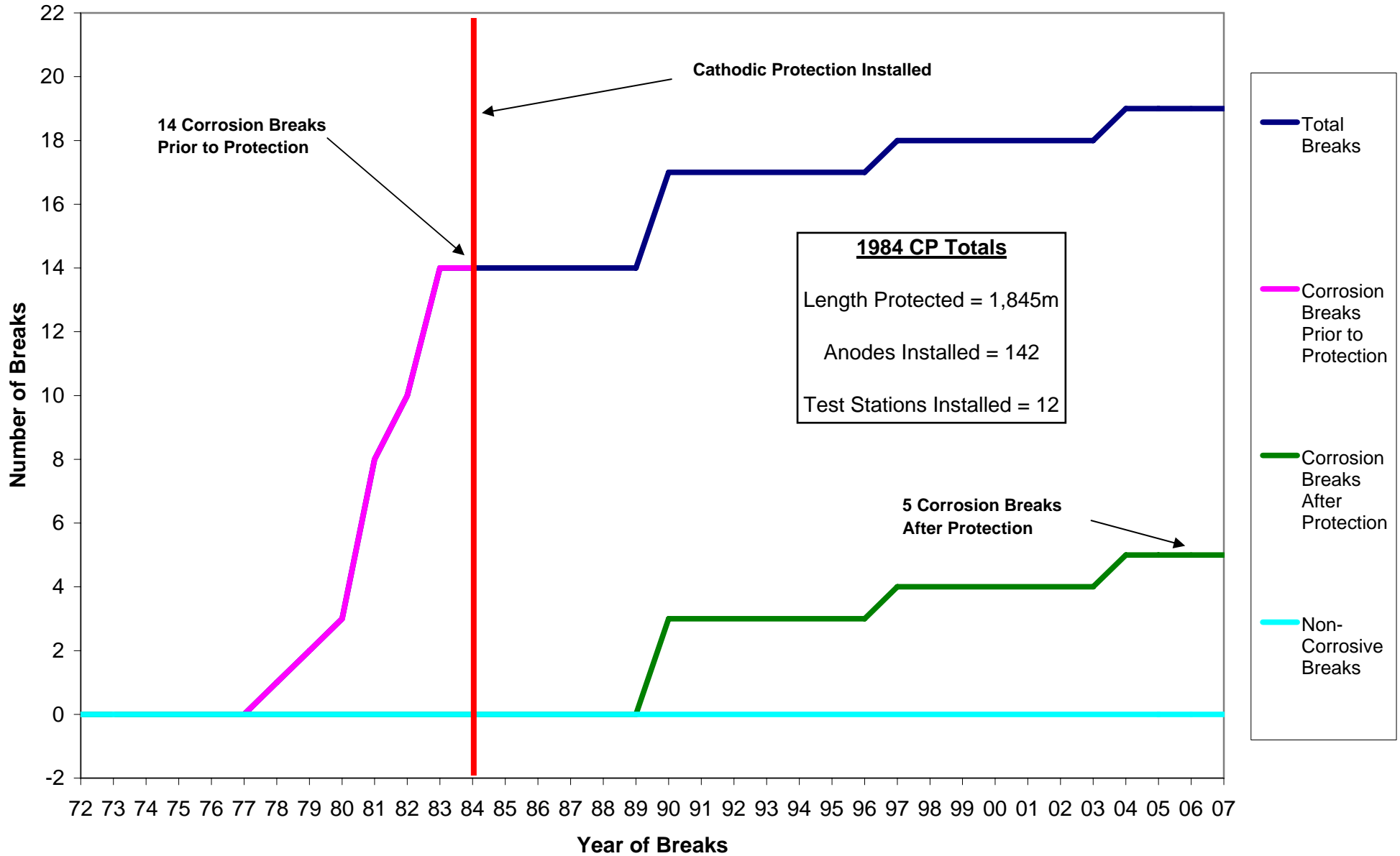
APPENDIX 1

BREAK SUMMARY GRAPHS FOR PROTECTED WATERMAINS FROM 1983-2007

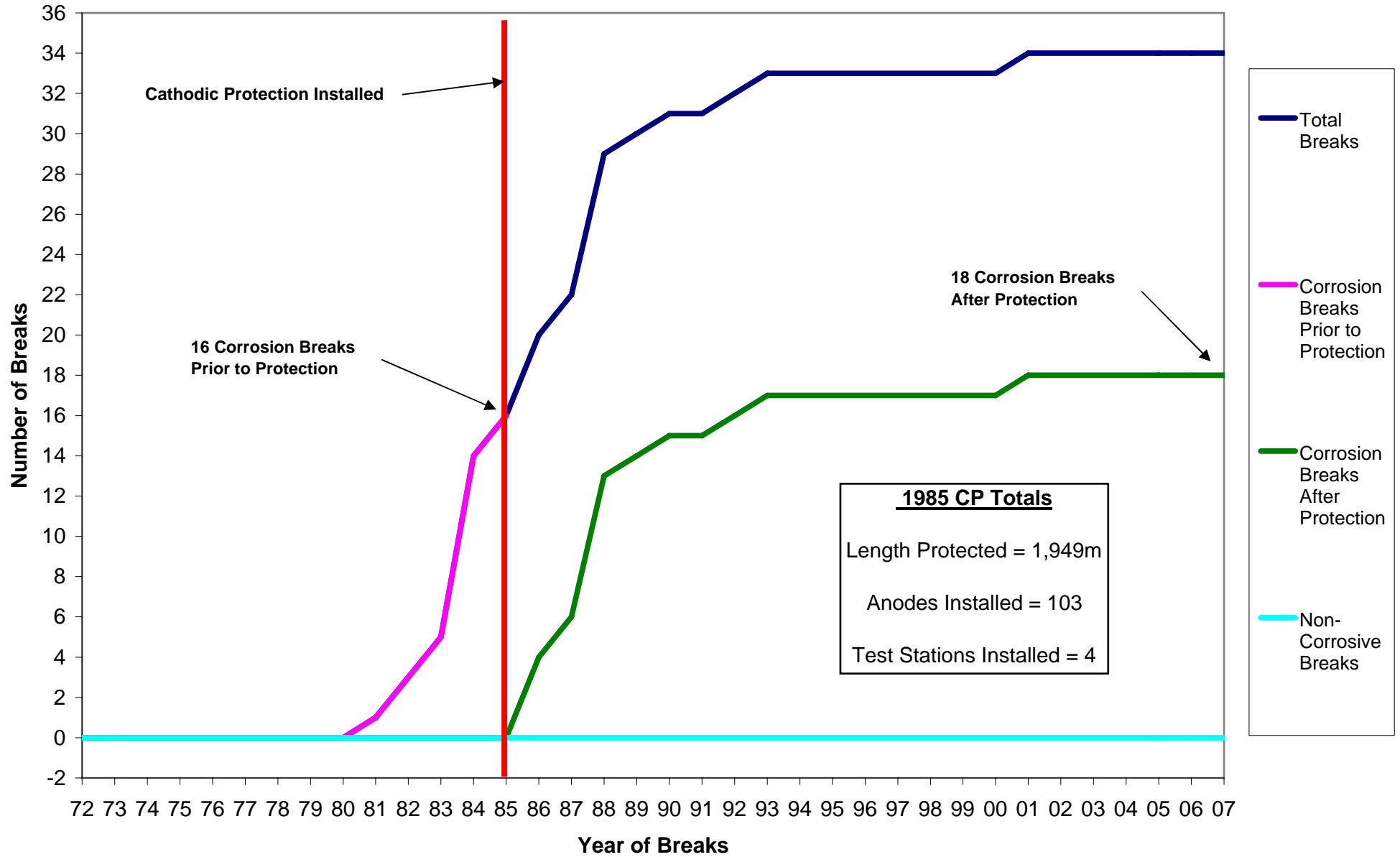
Break Summary For Watermains Cathodically Protected In 1983



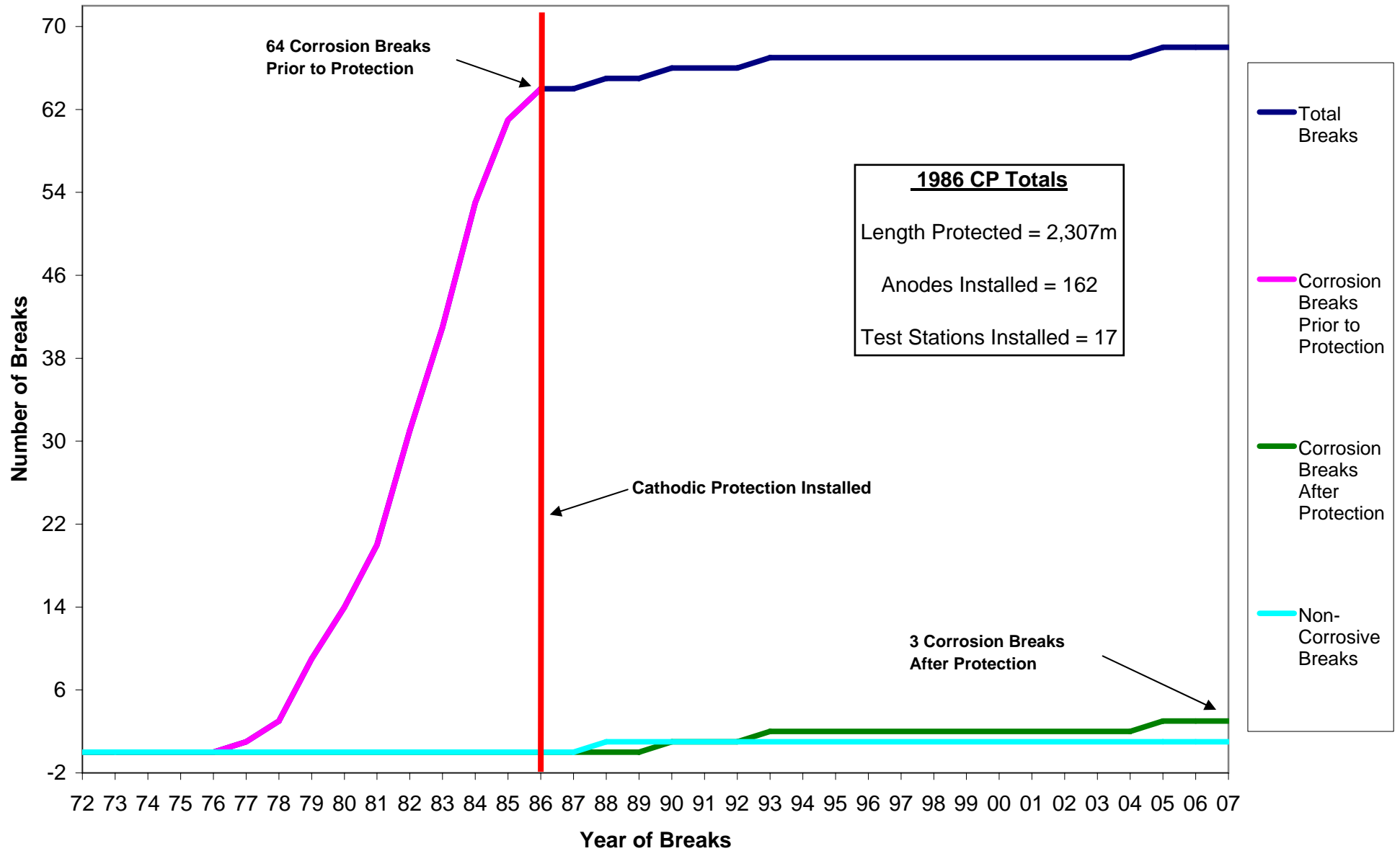
Break Summary For Watermains Cathodically Protected In 1984



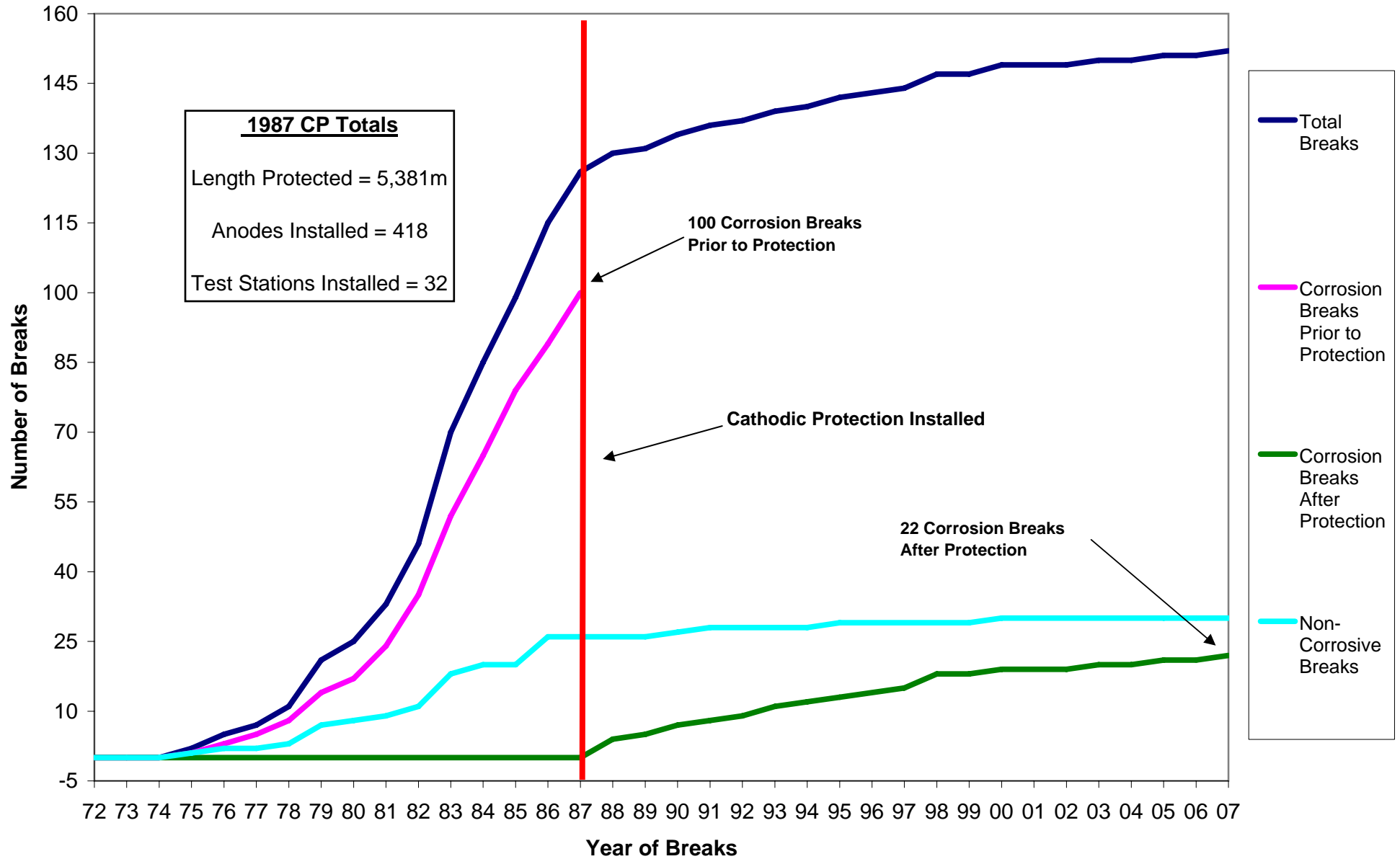
Break Summary For Watermains Cathodically Protected In 1985



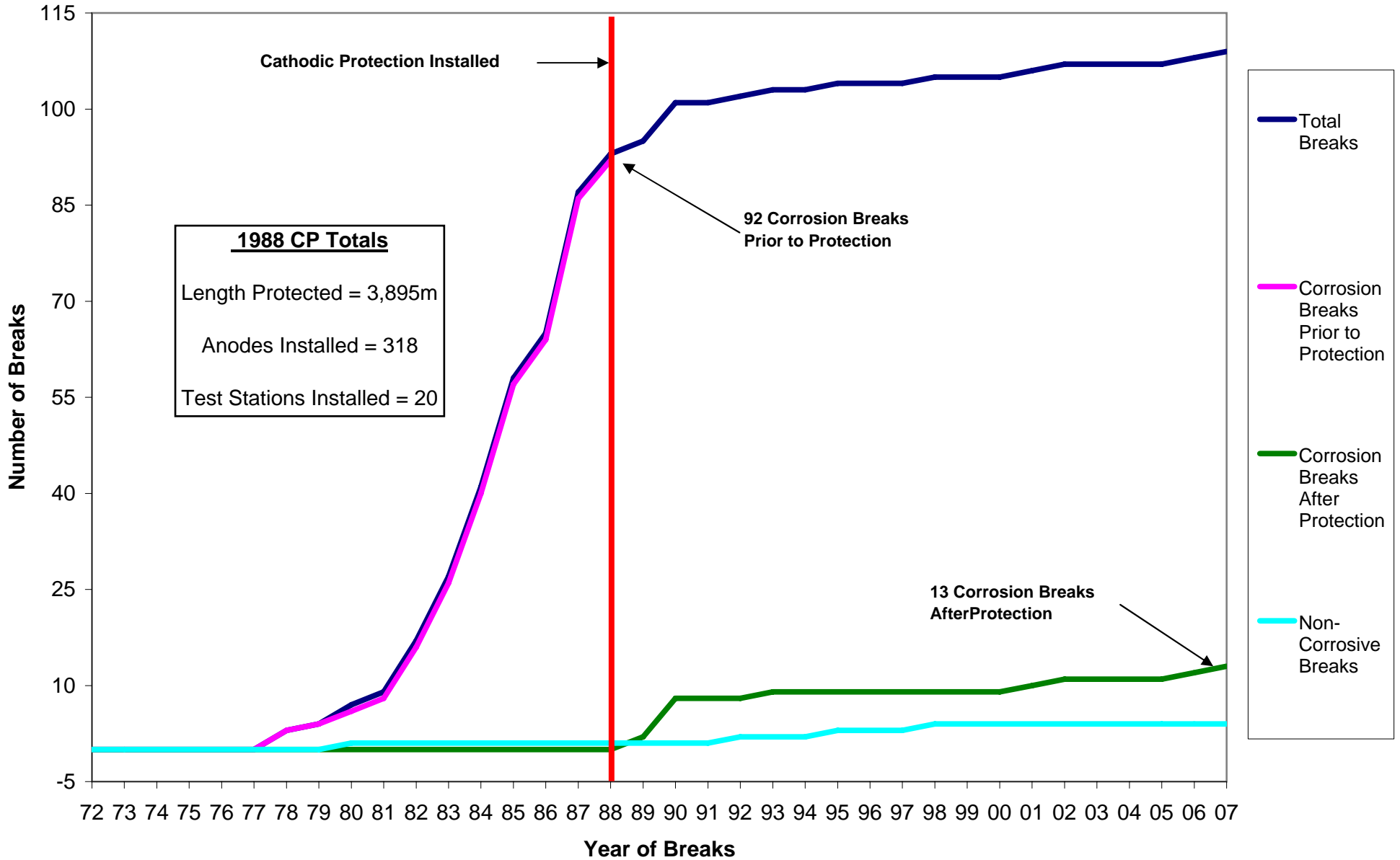
Break Summary For Watermains Cathodically Protected In 1986



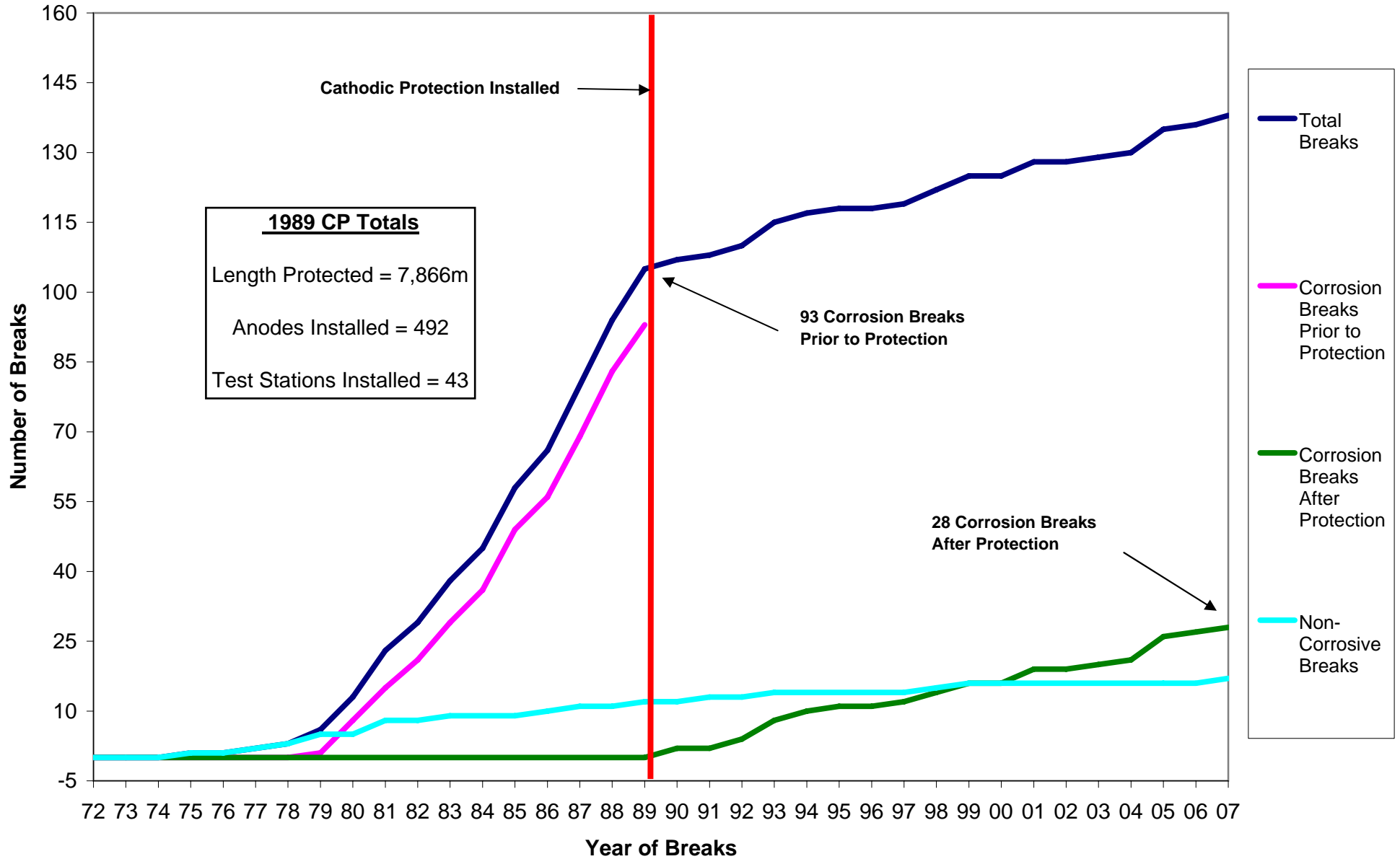
Break Summary For Watermains Cathodically Protected In 1987



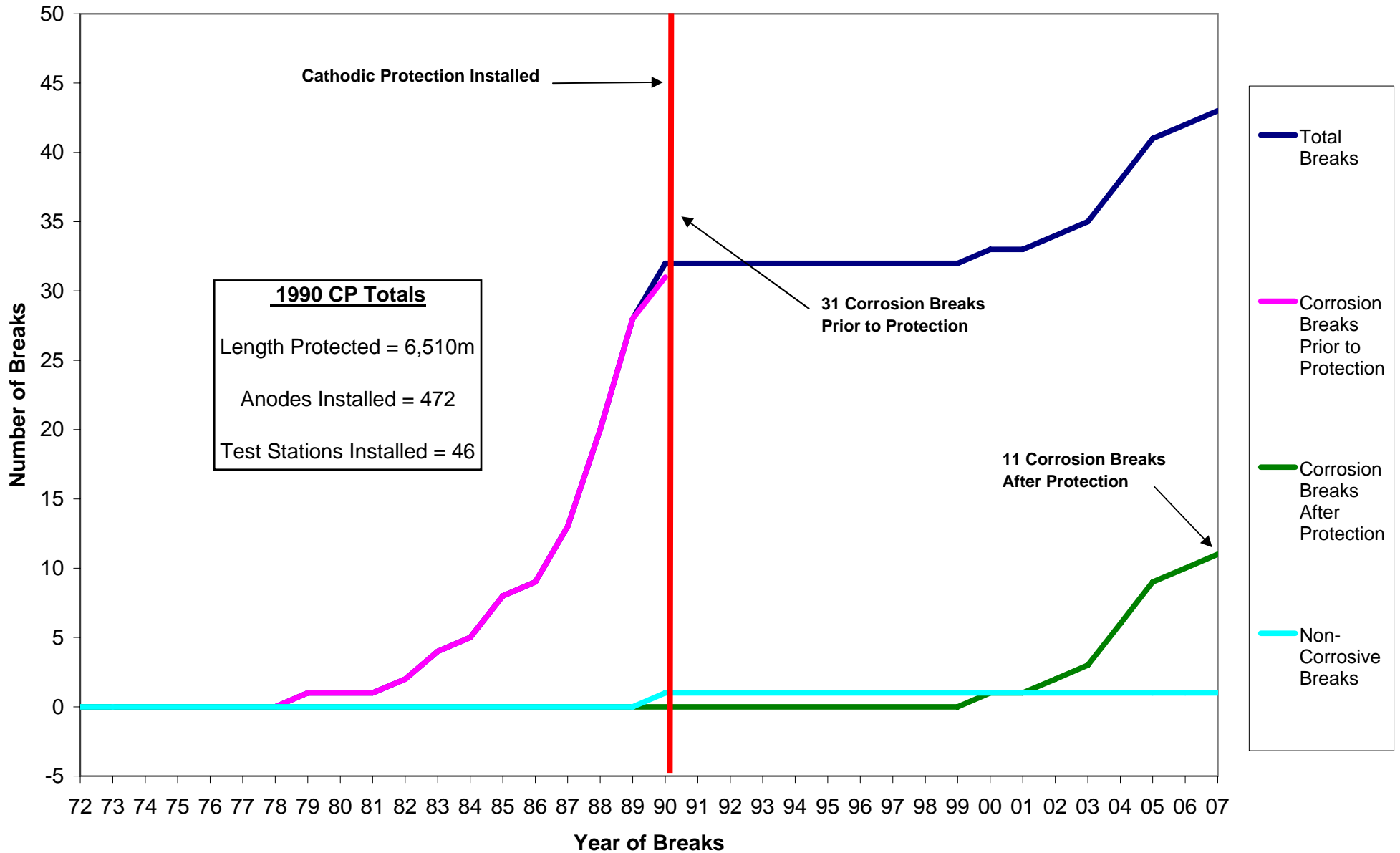
Break Summary For Watermains Cathodically Protected In 1988



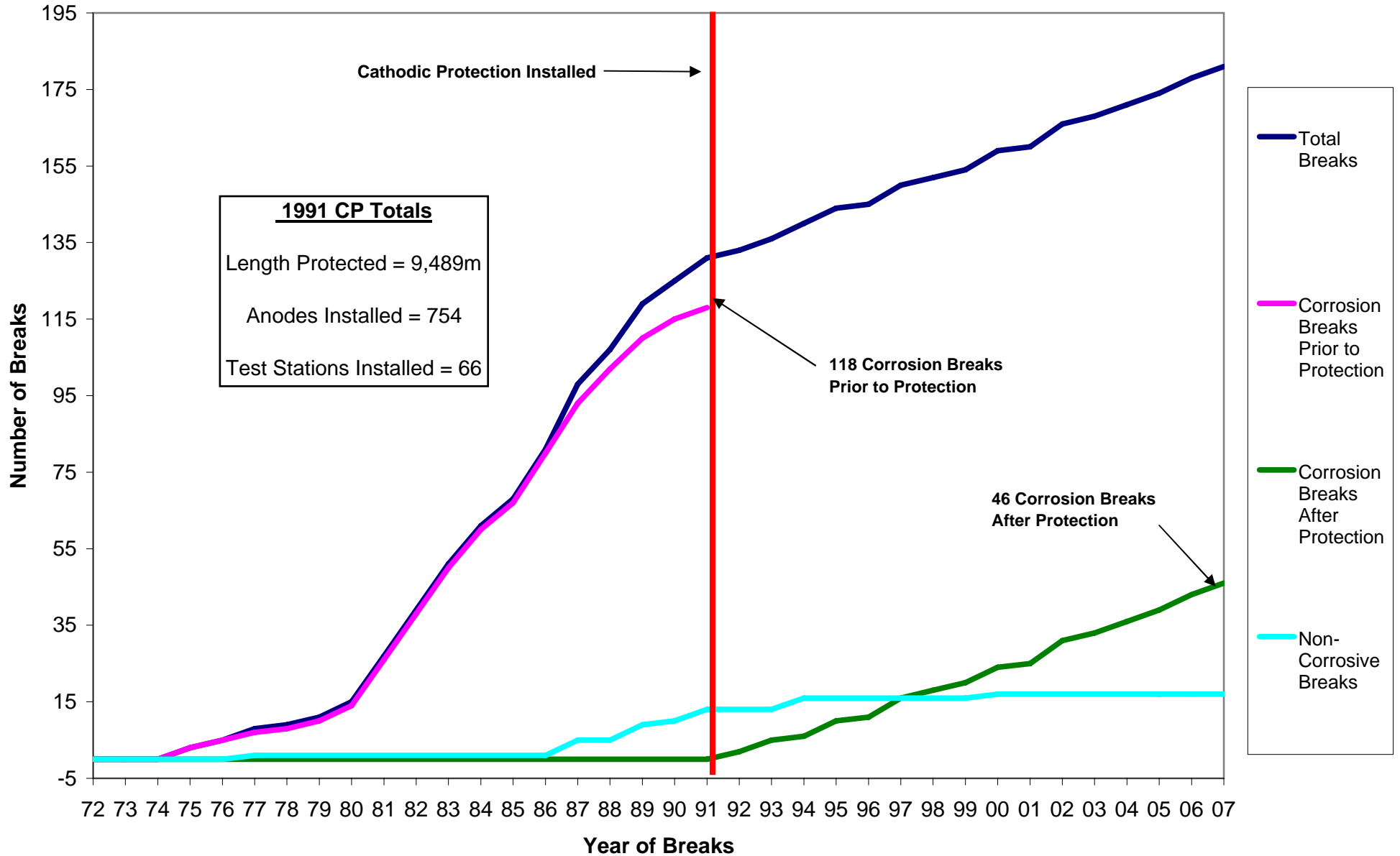
Break Summary For Watermains Cathodically Protected In 1989



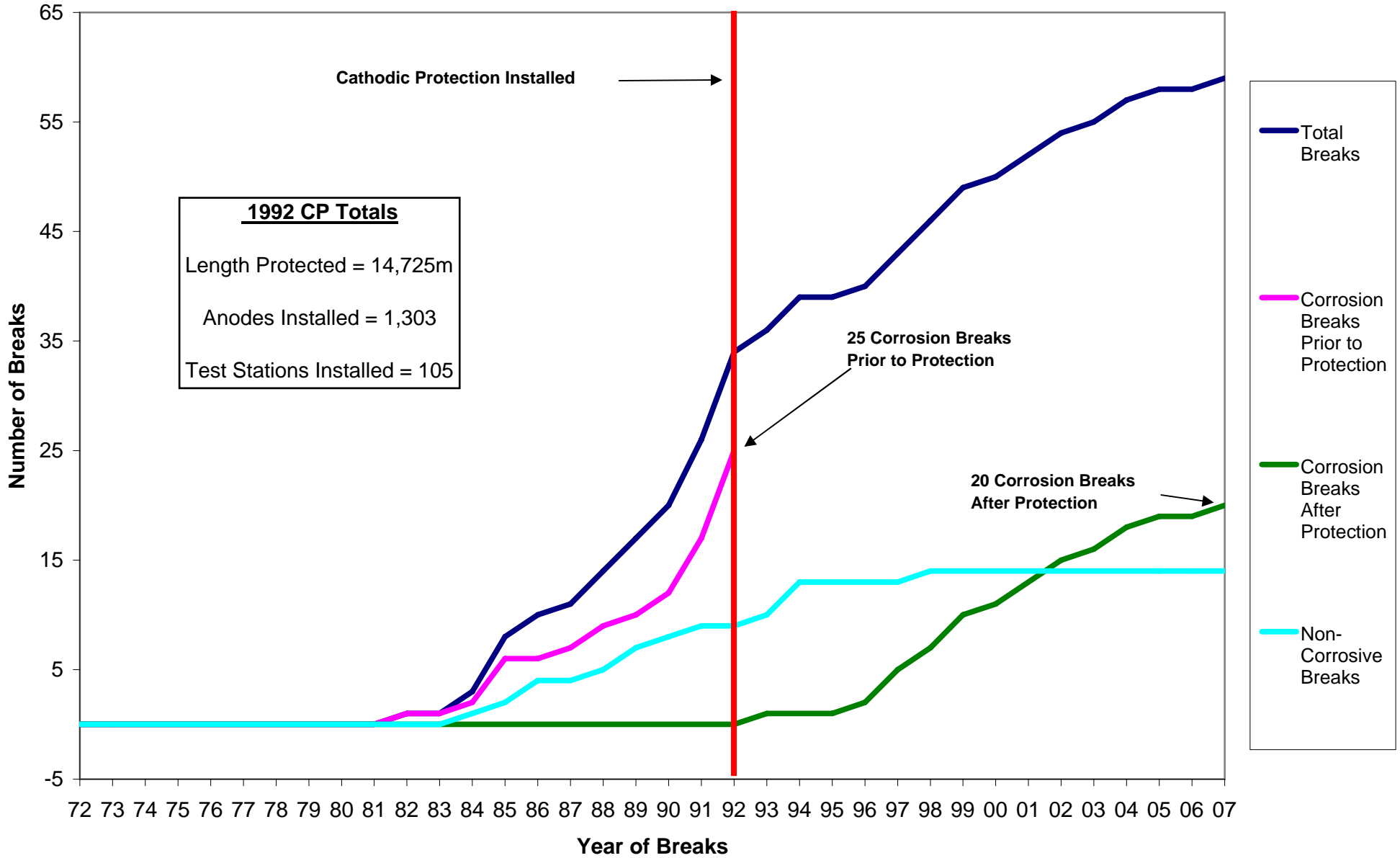
Break Summary For Watermains Cathodically Protected In 1990



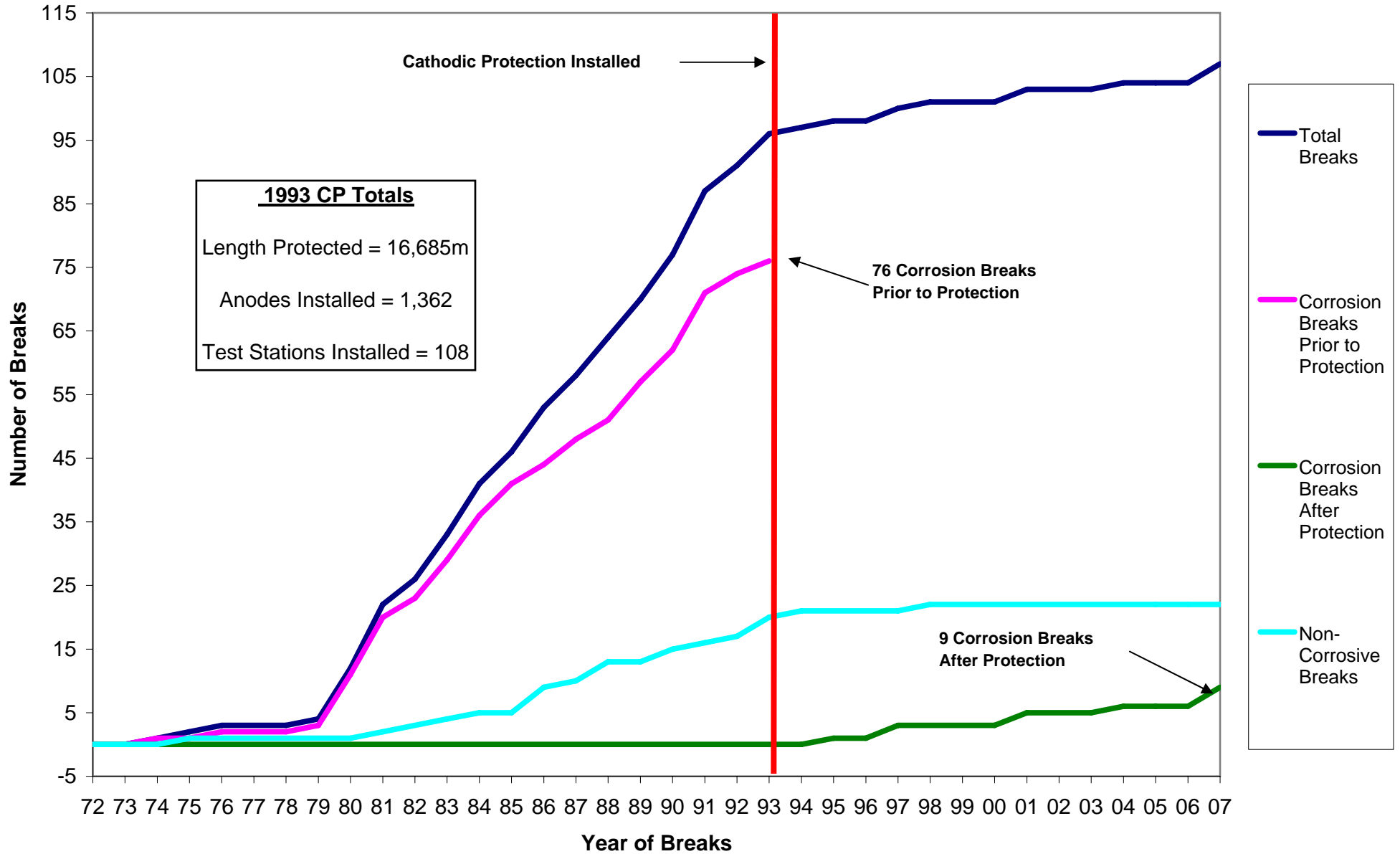
Break Summary For Watermains Cathodically Protected In 1991



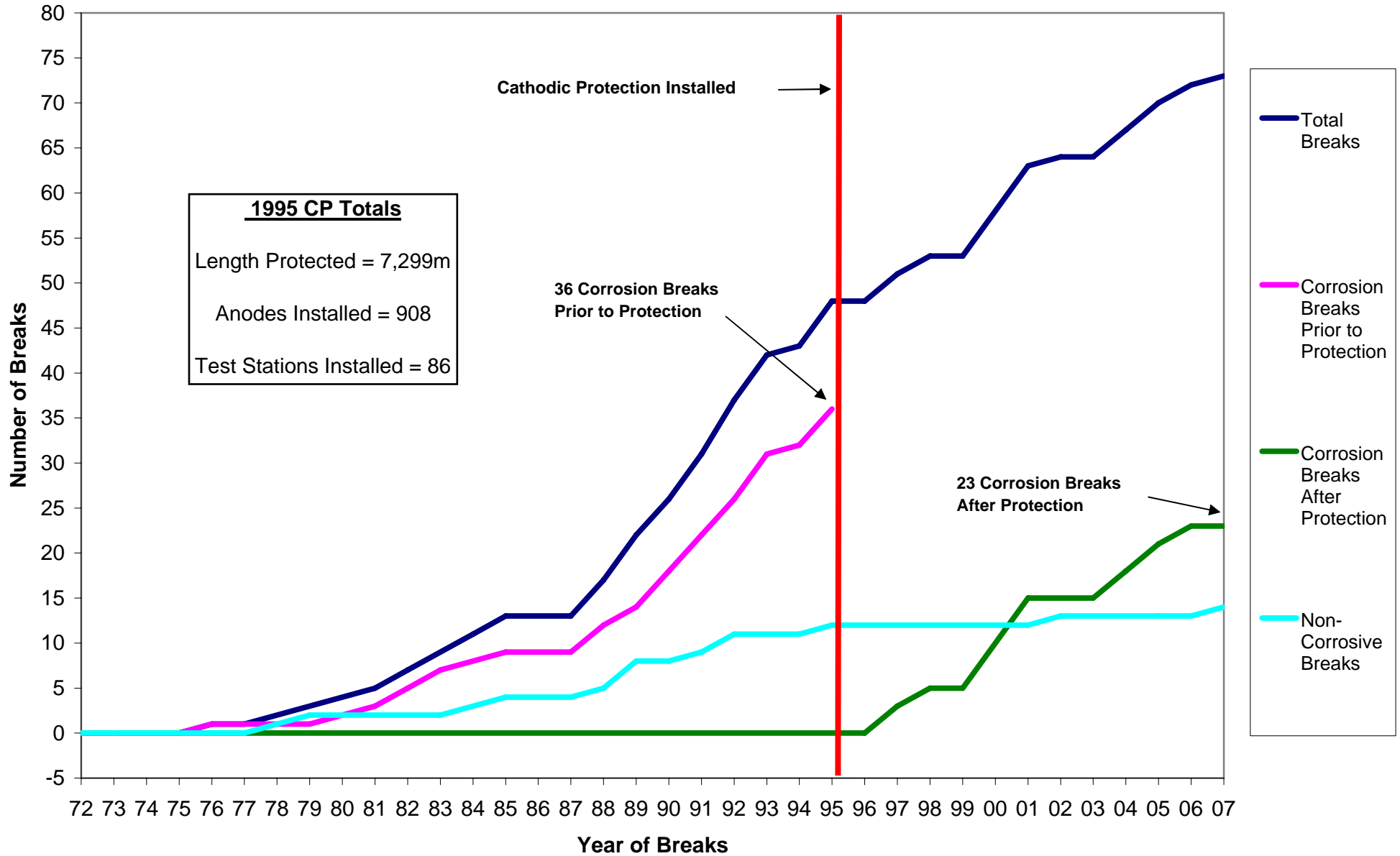
Break Summary For Watermains Cathodically Protected In 1992



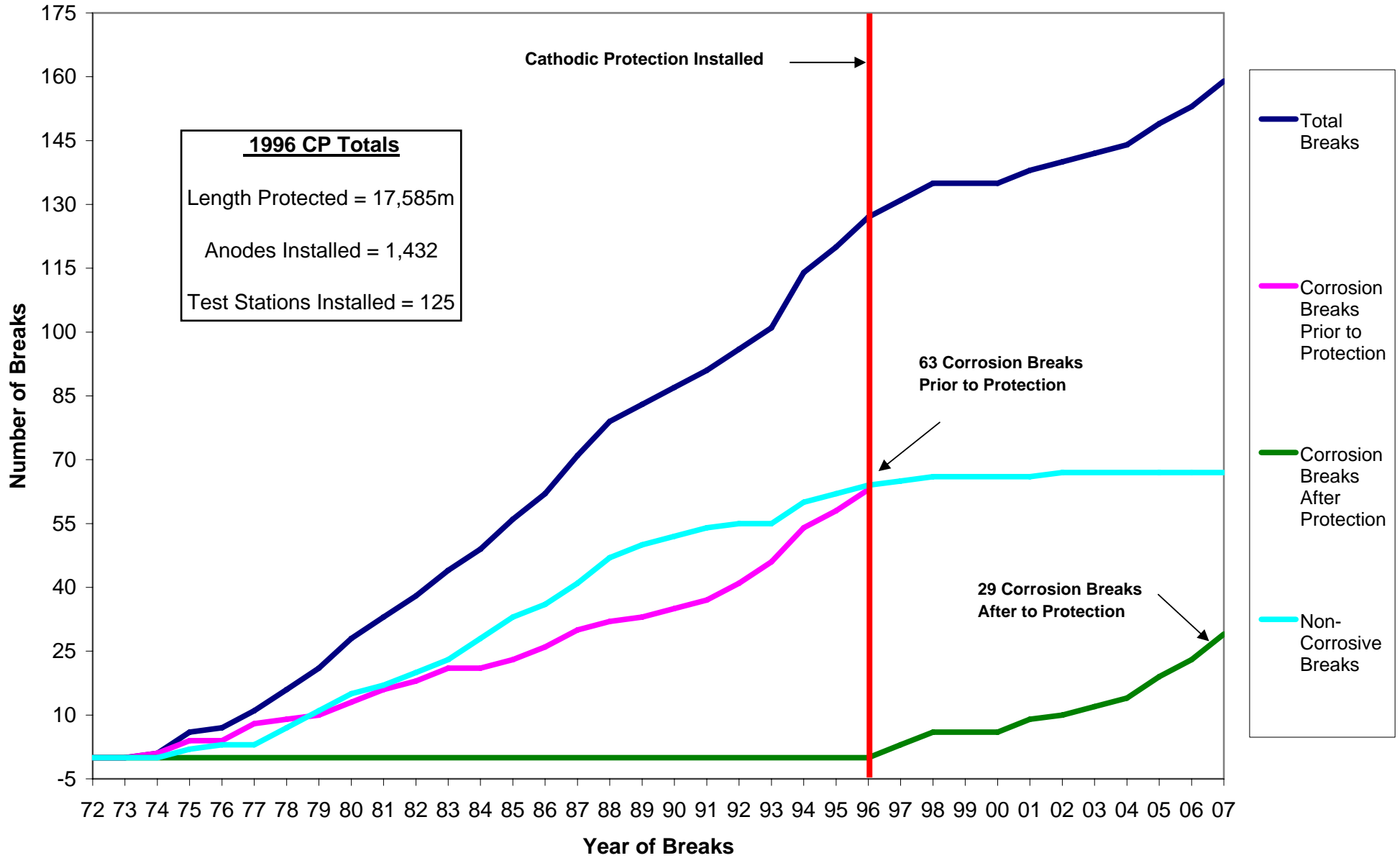
Break Summary For Watermains Cathodically Protected In 1993



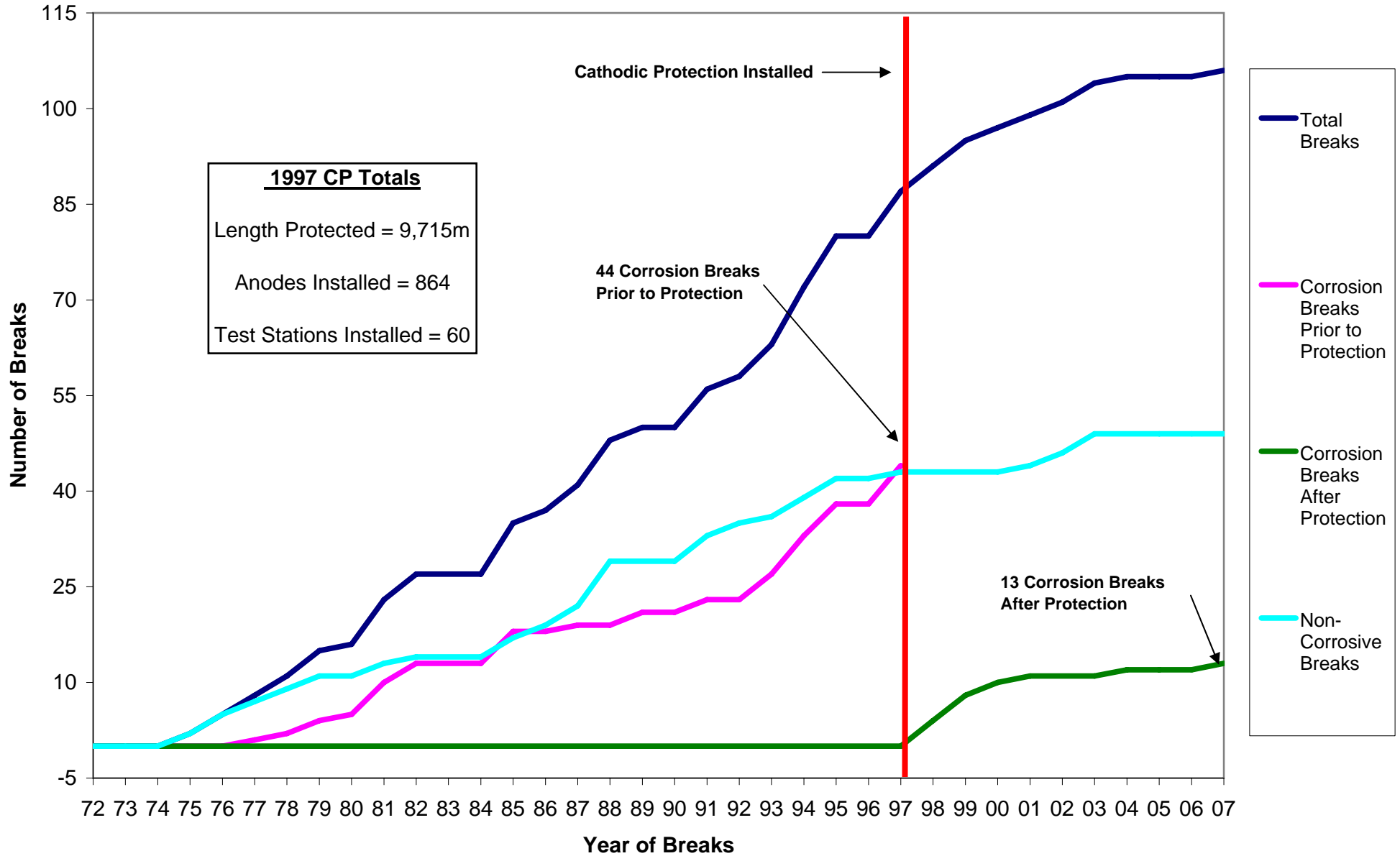
Break Summary For Watermains Cathodically Protected In 1995



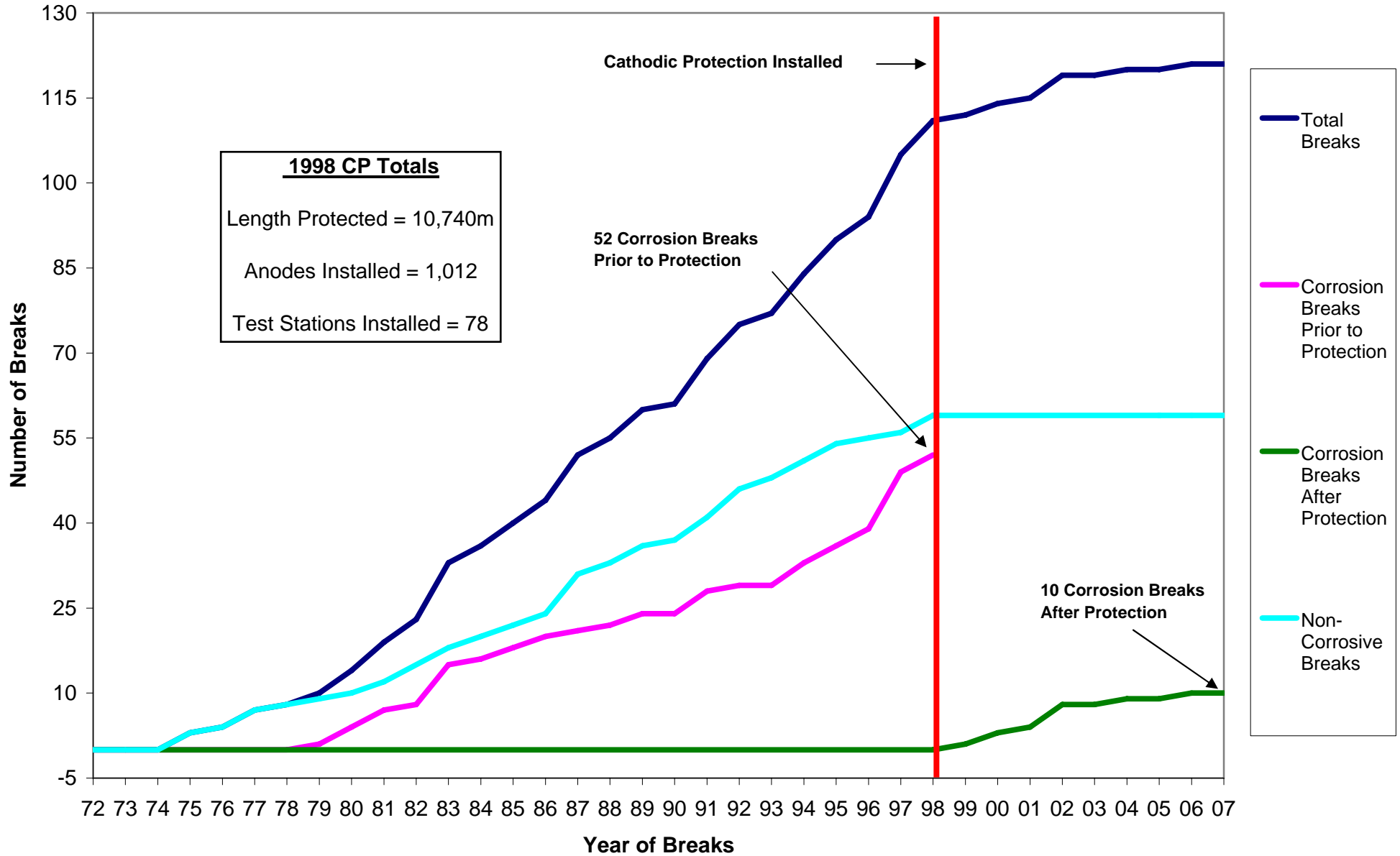
Break Summary For Watermains Cathodically Protected In 1996



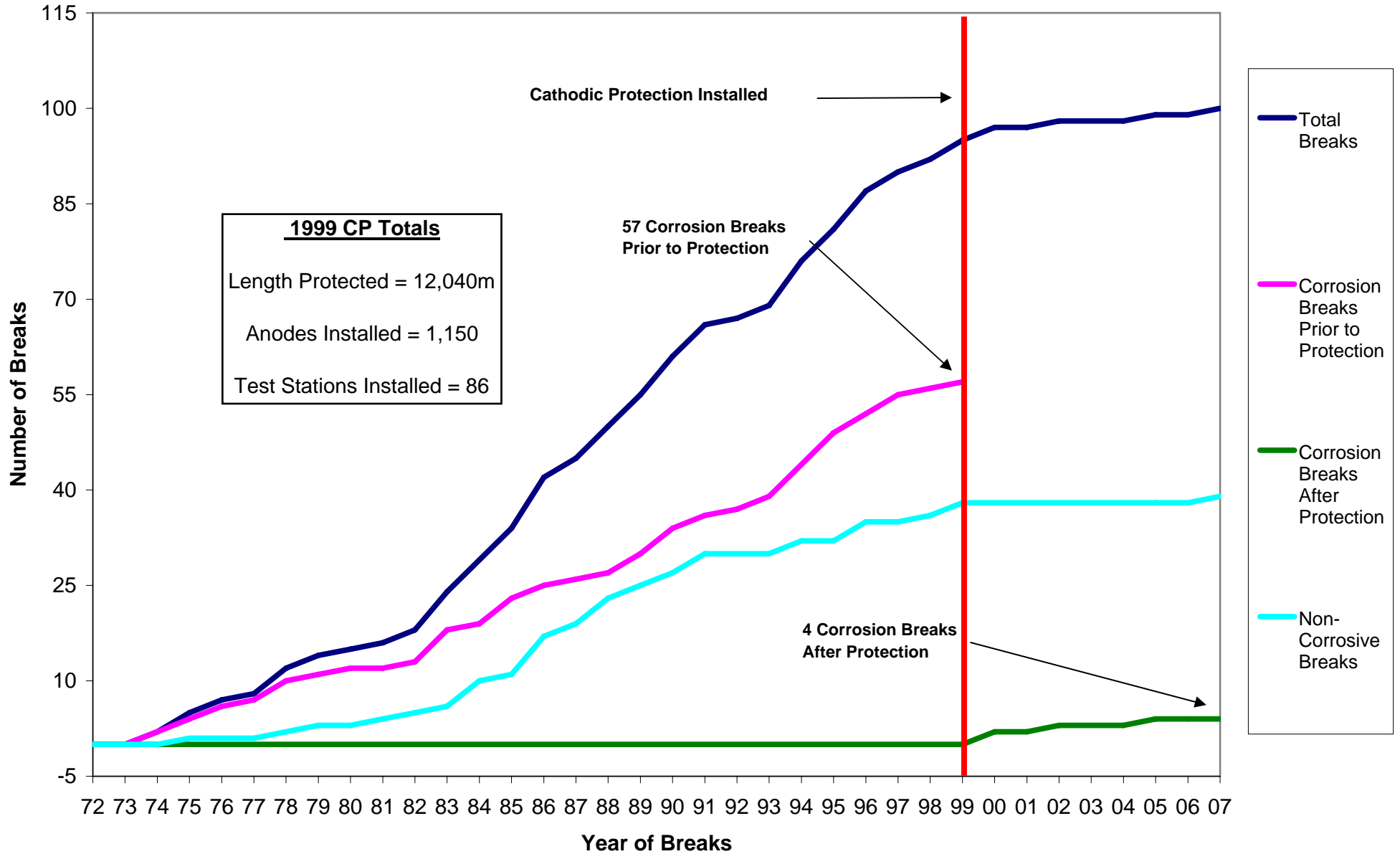
Break Summary For Watermains Cathodically Protected In 1997



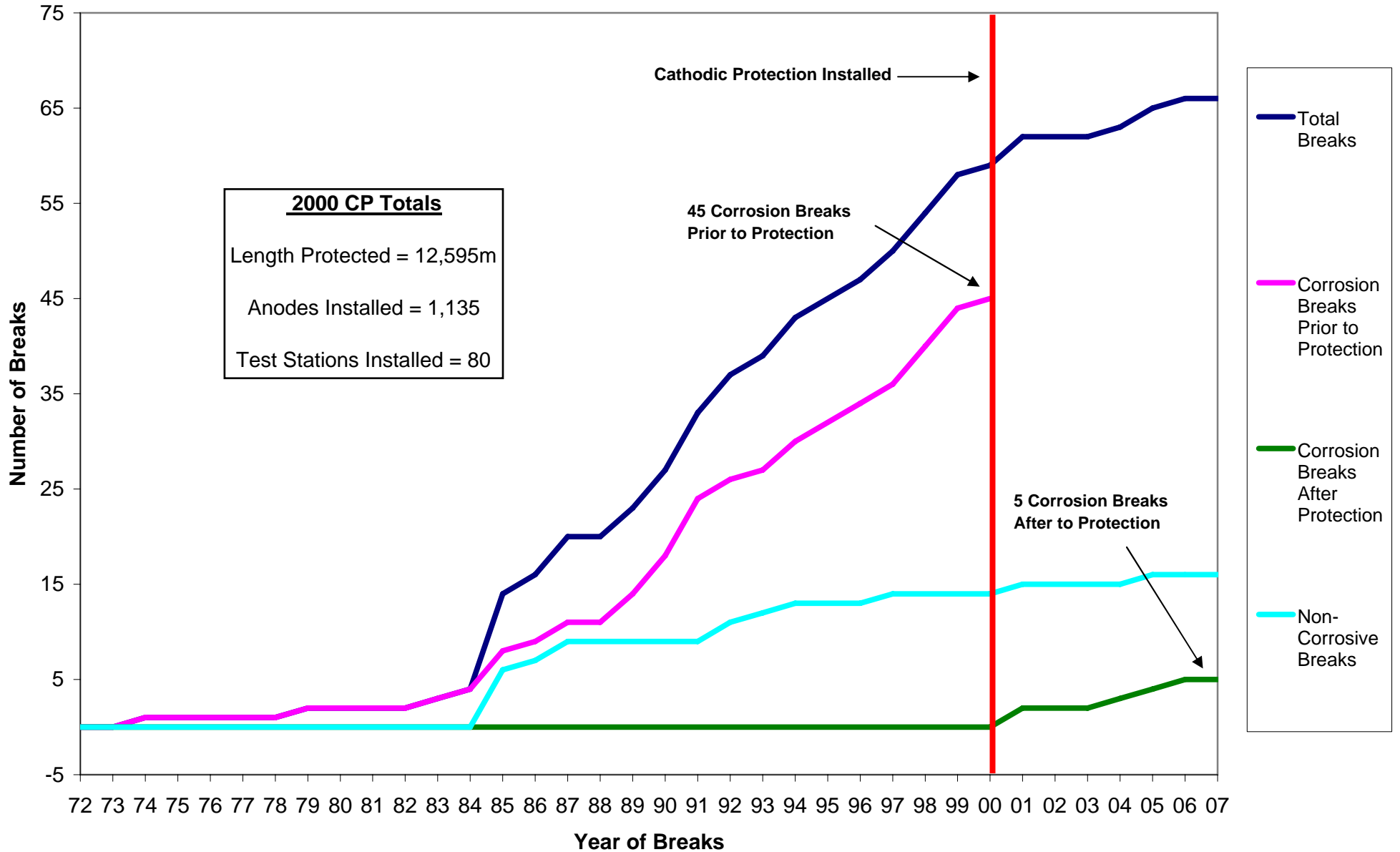
Break Summary For Watermains Cathodically Protected In 1998



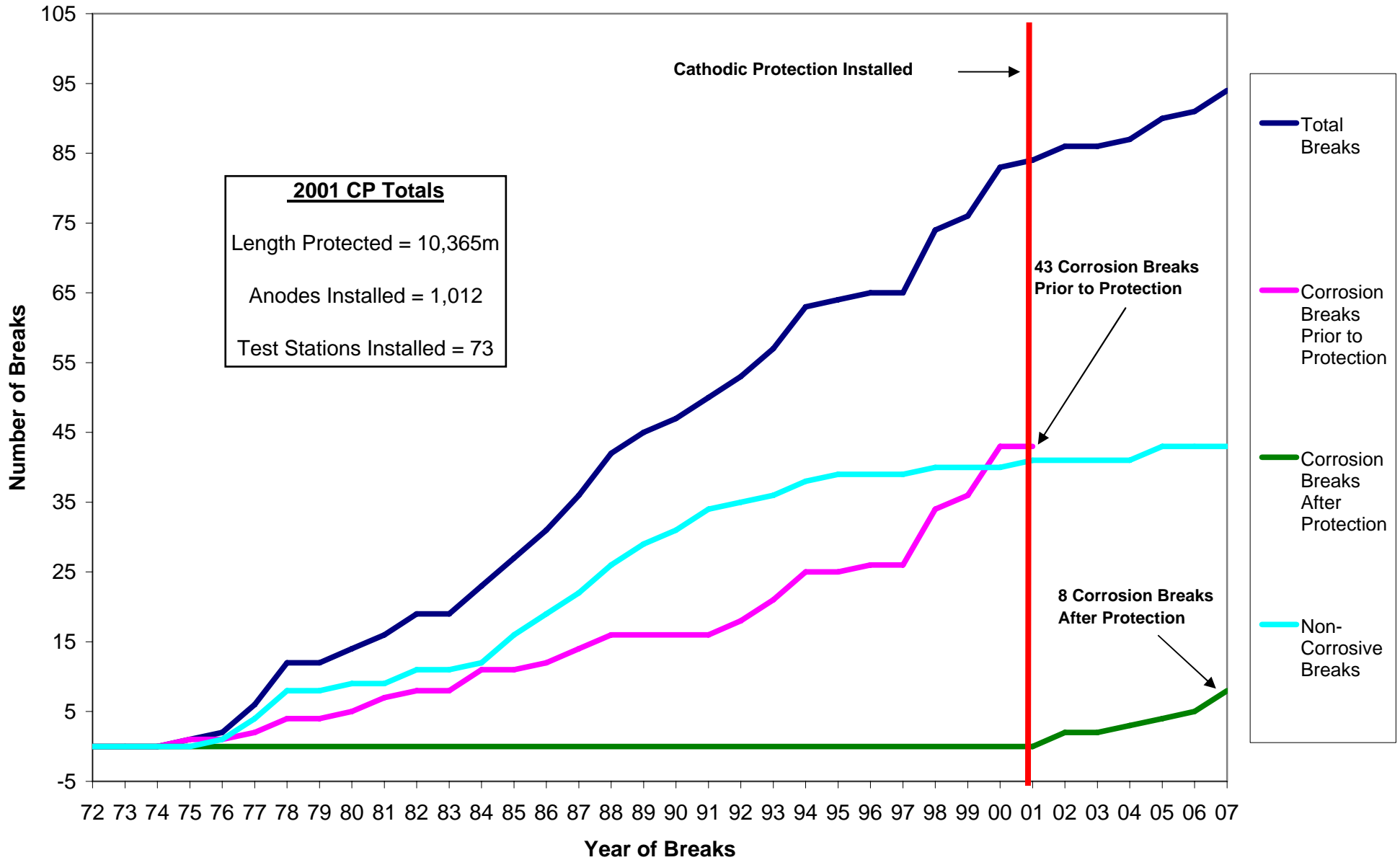
Break Summary For Watermains Cathodically Protected In 1999



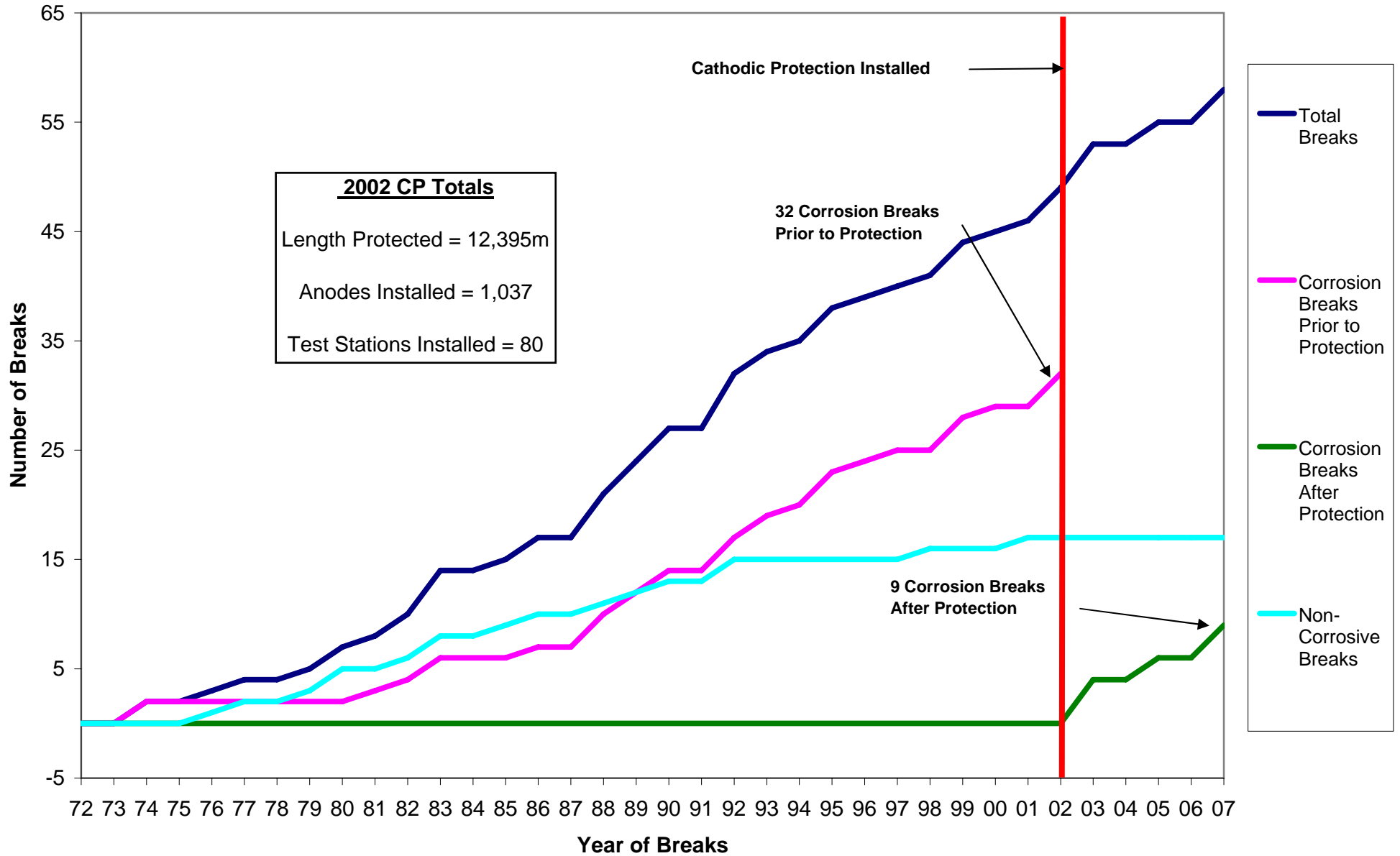
Break Summary For Watermains Cathodically Protected In 2000



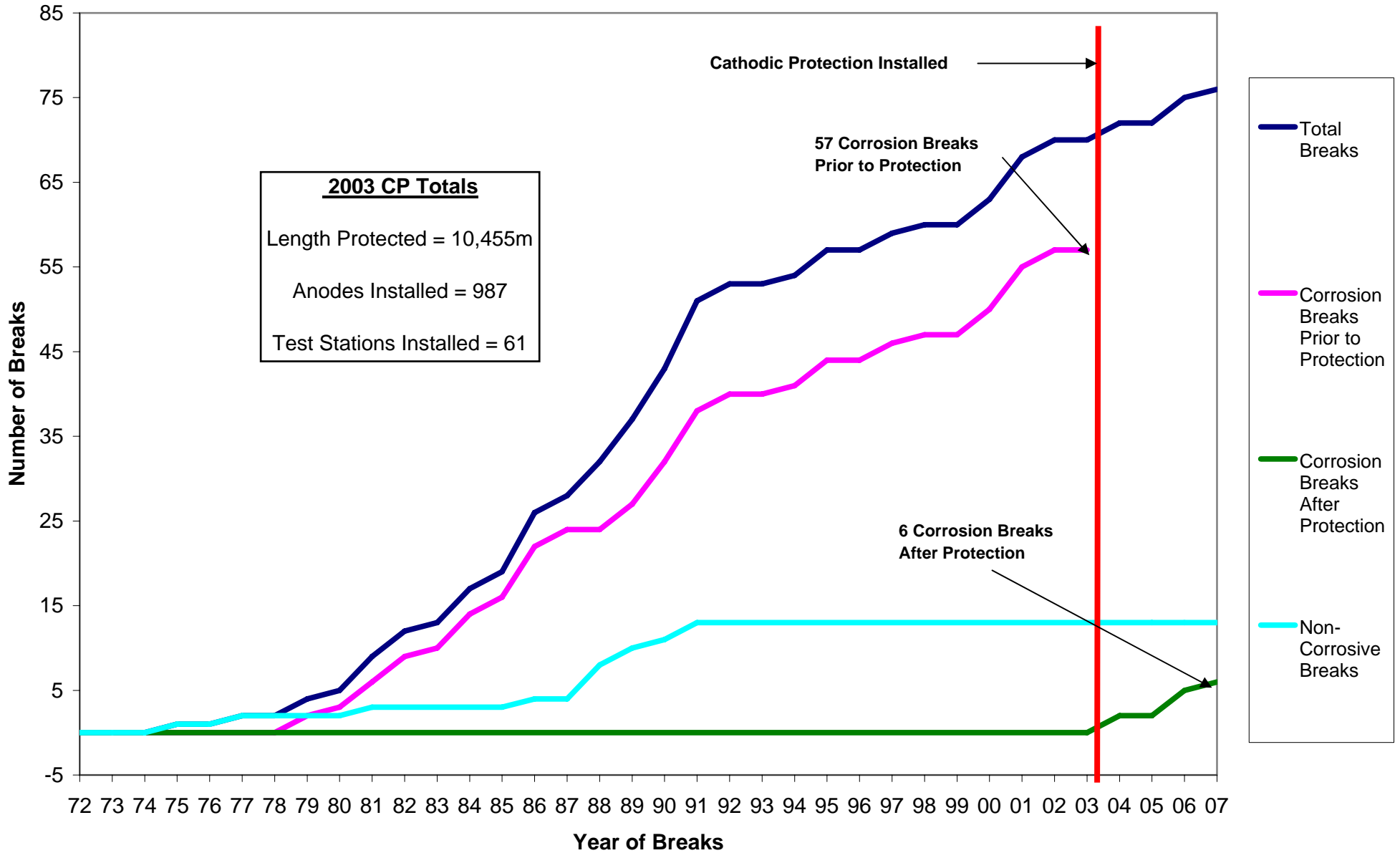
Break Summary For Watermains Cathodically Protected In 2001



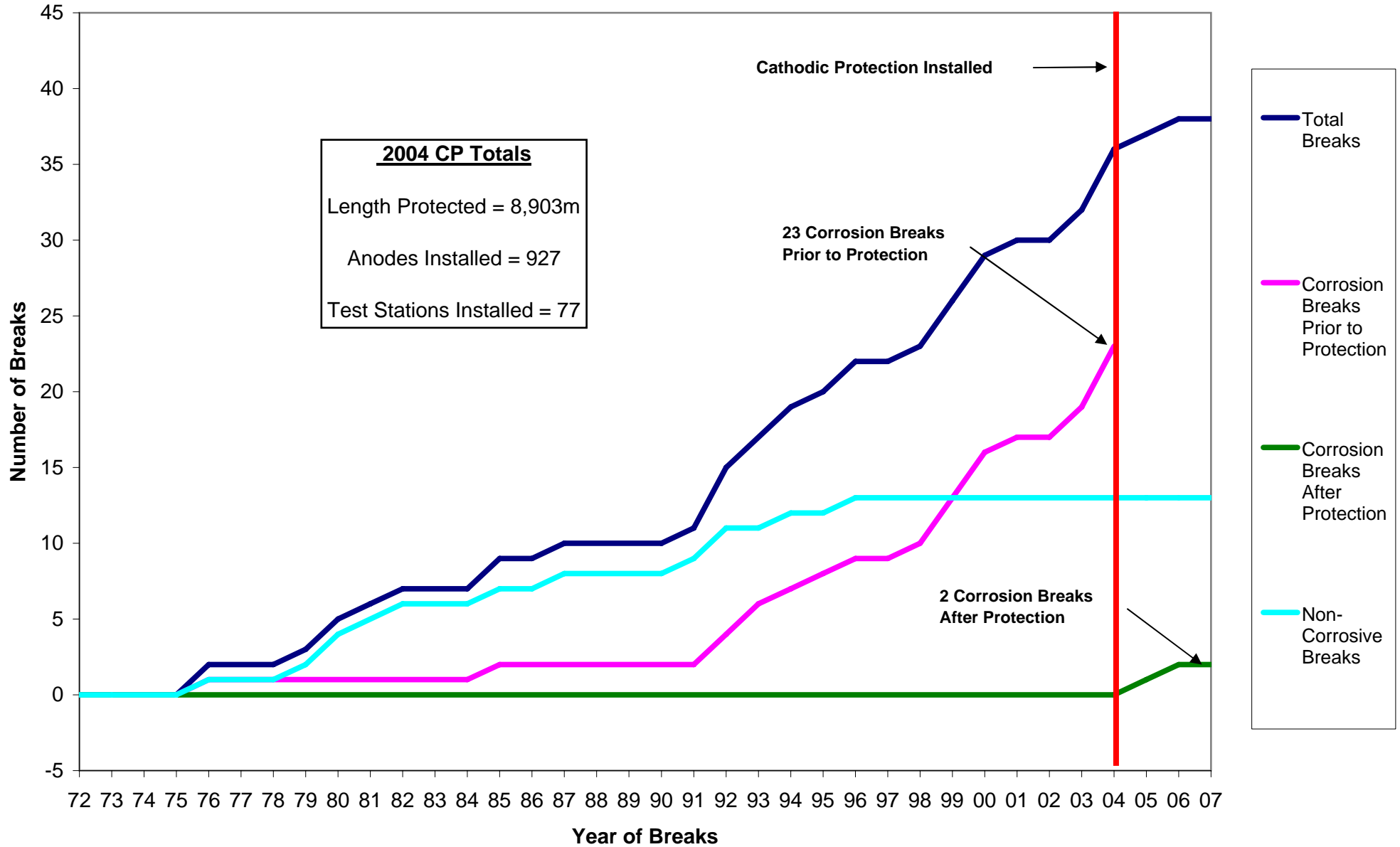
Break Summary For Watermains Cathodically Protected In 2002



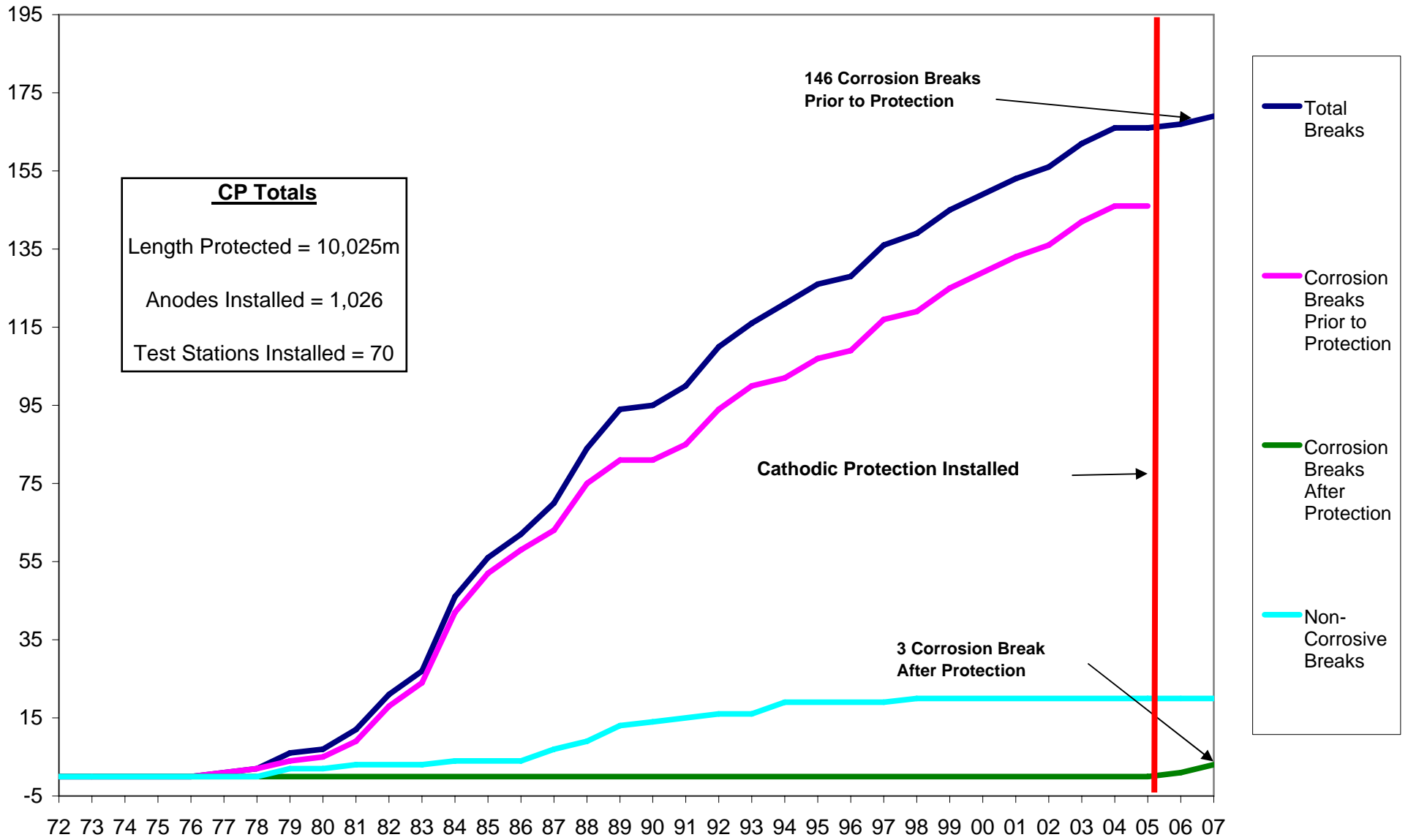
Break Summary For Watermains Cathodically Protected In 2003



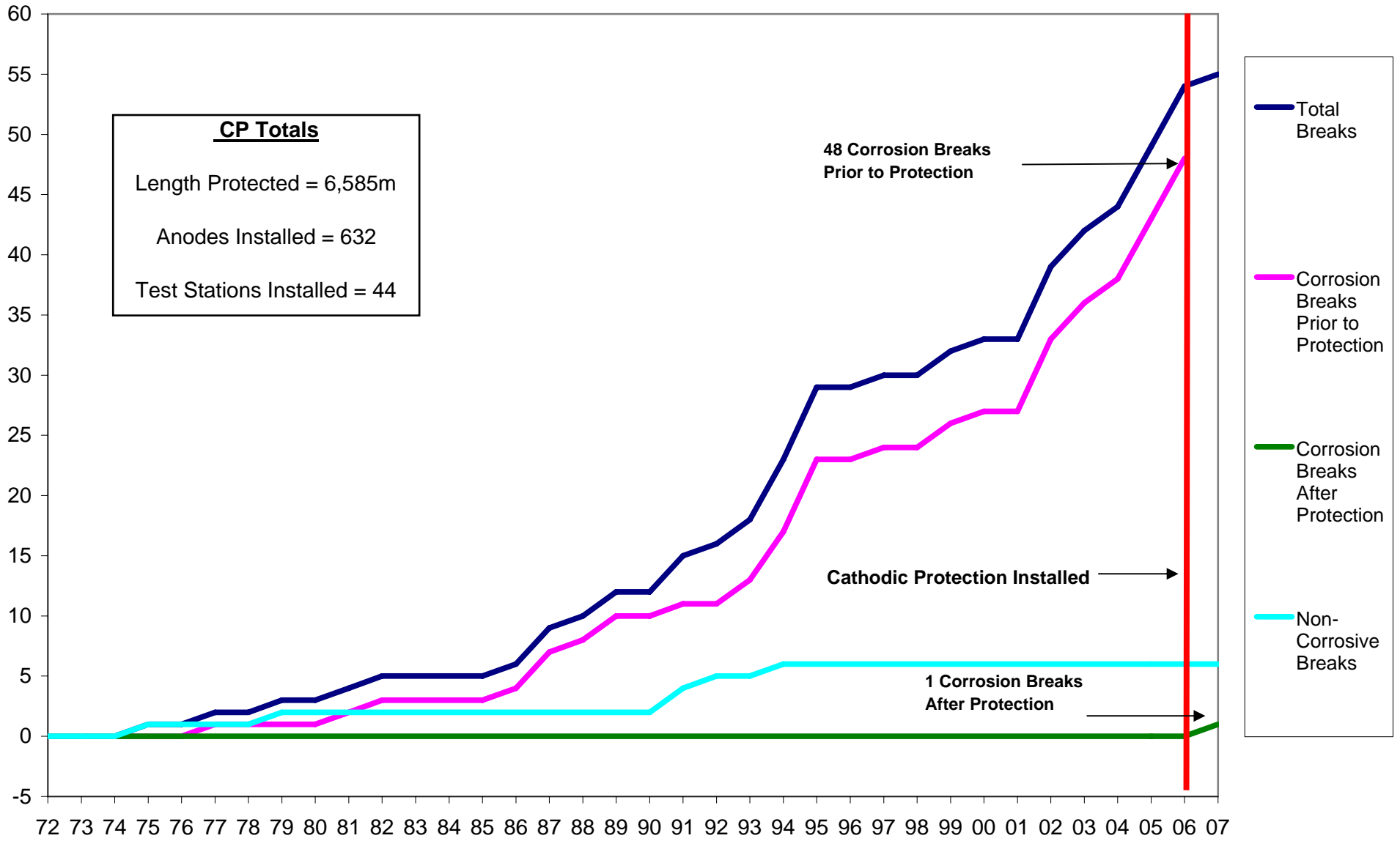
Break Summary For Watermains Cathodically Protected In 2004



Break Summary For Watermains Cathodically Protected In 2005



Break Summary For Watermains Cathodically Protected In 2006



Break Summary For Watermains Cathodically Protected In 2007

