Town of Needham, Massachusetts

Spring 2013 Townwide Inflow & Infiltration Study

Final Submission: March 2017

Phase I Report





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Executive Summary

Background

The Town of Needham owns, operates and maintains approximately 140 miles of sanitary sewers and 9 sewage pumping stations that discharge to the MWRA collection system. Due to the age and material of many of its sewers, Needham's collection system is susceptible to infiltration and inflow. Infiltration and inflow (I/I) occurs when storm water enters the sanitary sewer resulting in diluted sewage flows and reducing the sewer system's capacity. Inflow is a result of surface runoff entering the sewer through cracks in manhole covers or illegal drain connections. Infiltration is groundwater that enters the sewer system from the surrounding soil through cracks and open joints in the sewer pipes. The Town retained the services of BETA Group, Inc. to conduct a town-wide infiltration and inflow (I/I) investigation to assess the location and extent in which infiltration/inflow conditions exists and to recommend a cost-effective course of action. This executive summary and subsequent report describes the I/I investigation and analysis including the flow monitoring program, methodologies used, data collected, results of the data analysis and recommendations for future inspection and rehabilitation.

Scope of Work

The scope of work for this study was based on developing and conducting a town-wide flow monitoring program, analyzing the results, and developing a strategy to address infiltration/inflow as follows:

- First task, which laid the framework for the project, was flow metering planning and development. A sewer sub-areas map was created by compiling a sewer system map from the Town's existing GIS and CAD information and adding recent sewer system upgrades. Based on this map and consultation with the Town and previous I/I investigation reports, a detailed table listing of proposed flow metering sites was developed.
- Second task was to purchase, install and maintain 25 flow meters (10 permanent, 2 portable and 13 temporary) at the locations identified in task one.
- Task three was the flow monitoring program itself, which involved conducting flow monitoring for a 12 week period, downloading data weekly, installation and weekly monitoring of rain and groundwater gauges during the study period, and requesting flow metering data from MWRA for their two flow meters on a weekly basis. During the flow monitoring period the meters were visited, maintained and calibrated on a weekly basis to ensure accurate readings.
- Task four was to compile a final report. Compiling the report involved flow meter data review and reduction, preparing flow reports and hydrographs for each flow monitoring location and studying nighttime dry and wet weather flow data to determine infiltration and inflow. Study period flow data was compared to MWRA flow meter data collected from 2009-2013 in Needham to analyze whether the study period flows were typical or unusual compared to the previous five years. Analysis of this data was used to develop a plan for future TV inspection, targeting a spring 2014 program. Analysis was also used to develop a strategy to address

infiltration/inflow for the next 20-years including cost and prioritization and to determine a base flow for future reporting.

Study Area and GIS Updates

The study area is comprised of 33 sewer subareas as identified in CDM's 1985 I/I study. Since the initial I/I Investigation in 1985, the Town has conducted planning studies and developed repair, rehabilitation and replacement programs to reduce inflow and infiltration (I/I) which have made numerous changes to the Town's sewer system. Using TV inspection reports, previous I/I investigations, and previous sewer construction designs, BETA updated the Town's existing GIS database to include data such as inspection date, rehabilitation dates and rehabilitation type. The GIS database was also modified to show the most up-to-date known pipe alignments. Taking these changes into account, BETA updated sewer system boundaries within the Town's existing GIS database and adjusted boundary limits to better isolate flows in each subarea. Changes were made to the boundaries of existing sewer subareas 25, 26, 27 and 29. A sewer system map identifying these subareas is located in Appendix A. With the updated GIS, BETA developed a comprehensive map identifying locations with the most recent TV inspection, manhole inspection, and rehabilitation work that could be used for the flow monitoring program and in developing a plan for future TV inspection and I/I investigation and rehabilitation programs.

Flow Monitoring Program

Tasks performed under this study were conducted in accordance with the Massachusetts Department of Environmental Protection (DEP) "Guidelines for Performing Infiltration/Inflow Analyses and Sewer Systems Evaluation Surveys" Revised January 1993. As a part of an Infiltration/Inflow program completed between 1984 and 1985 by CDM, a total of 17 flow meters were installed for a period of two weeks to monitor 17 of the Town's sewer subareas. This data was used as a comparison to new data as well as a guide for this program including placement of temporary flow meters. This investigation included continuous local flow metering, nighttime flow isolation, groundwater monitoring, and rain gauging. A summary of infiltration and inflow findings, from this investigation, compared to CDM's 1985 findings is shown in Table ES-1.

The goal of continuous flow monitoring was to obtain infiltration information on specific tributary areas flows during high groundwater periods and identify rainfall generated inflow during wet weather periods. Flow monitoring was conducted utilized 10 permanent, 2 portable, and 13 temporary flow meters between March 18 and June 27, 2013 at the locations depicted in the flow metering location map in Appendix B. Meters were monitored and data was downloaded weekly by EST, Associates. Flow isolation was completed between 11:45PM on 6/19/2013 and 1:25AM on 6/20/2013 in Subareas 3, 4, 6, 9, and 25.

Nighttime flow monitoring was performed in subareas 3, 4, 6, 9, 25, and 27. It was determined to be more cost beneficial to take nighttime instantaneous flow measurement rather than flow metering in these subareas due to their smaller size. EST Associates Inc. obtained measurements using portable weirs during dry weather and high groundwater to eliminate influences from rain-related inflow.

Table ES-1: Comparison of Flow Meter Data

	Summary of Infiltration/Inflow Rates											
	Current St	udy: Flow Gau	ging Period of Ma	rch 18 - June 27, 20	13	1985 Study: Flow Gauging Period of April 18 - June 15, 1984						
	Inflow Calculated from Storm of June 7-8, 2013						Inflow Calculated from Storm of May 3-4, 1984					
Gaging Area	Inch Miles of Pipe	Peak Infiltration Flow (GPD)	Infiltration Flow Rate (GPD/in-mi)	Peak Inflow Corrected for 1.7" Storm (GPD)	Continuous Monitoring	Gaging Area	Inch Miles of Pipe	Peak Infiltration Flow (GPD)	Infiltration Flow Rate (GPD/in-mi)	Peak Inflow Corrected for 1.7" Storm (GPD)	Continuous Monitoring	
1	50.52	-	-	-	No	1	-	-	-	-	No	
2	15.27	-	-	-	No	2	-	-	-	-	No	
3	5.06	30,200	6,000	-	No	3	0.91	20,600	22,700	-	No	
4	2.68	43,300	16,200	-	No	4	3.14	10,000	3,200	-	No	
5*	11.12	3,300	300	19,800	Yes	5	3.11	1,100	400	-	No	
6	6.61	53,600	8,100	-	No	6	4.49	33,900	7,600	-	No	
7	2.52	-	-	-	No	7	2.08	25,800	12,400	-	No	
9	0.96	1,700	1,800	-	No	9	0.68	1,100	1,600	-	No	
10	23.86	49,800	2,100	101,800	Yes	10	4.94	16,800	3,400	-	No	
11	69.19	557,000	8,100	333,200	Yes	11	67.24	777,300	11,600	778,600	Yes	
12	44.02	113,100	2,600	34,200	Yes	12	41.42	72,000	1,700	97,400	Yes	
13	35.25	57,400	1,600	40,100	Yes	13	34.40	104,600	3,000	218,000	Yes	
14	66.82	571,100	8,500	288,600	Yes	14	55.98	2,159,500	38,600	309,000	Yes	
15	51.65	63,500	1,200	128,800	Yes	15	42.39	279,100	6,600	0	Yes	
16	81.21	Included in Subar	rea 26		Yes	16	68.77	592,900	8,600	817,600	Yes	
17	24.10	109,800	4,600	31,500	Yes	17	44.53	177,700	4,000	0	Yes	
18	21.11	Included in Subar	rea 32		No	18	-	-	-	-	No	
19-1	54.07	297,200	5,500	263,900	Yes	19-1	54.42	298,100	5,500	973,300	Yes	
19-2	11.88	3,300	300	0	Yes	19-2	10.35	9,300	900	0	Yes	
20	49.75	326,500	6,600	299,000	Yes	20	45.43	59,700	1,300	71,400	Yes	
21	108.04	548,700	5,100	654,200	Yes	21	104.08	35,200	300	0	Yes	
22	106.49	664,700	6,200	431,800	Yes	22	104.65	480,900	4,600	253,100	Yes	
23	29.80	84,300	2,800	54,500	Yes	23	25.85	110,500	4,300	373,700	Yes	
24	37.53	83,200	2,200	166,600	Yes	24	36.15	77,000	2,100	103,800	Yes	
25**	20.51	14,200	700	-	No	25	16.49	69,100	4,200	77,900	Yes	
26	64.09	348,000	2,400	811,400	Yes	26	58.55	312,900	5,300	862,500	Yes	
27	10.23	61,100	6,000	37,400	Yes	27	-	-	-	-	No	
28	7.32	12,300	1,700	22,100	Yes	28	-	-	-	-	No	
29	7.43	28,600	3,800	103,100	Yes	29	-	-	-	-	No	
30	13.47	56,900	4,200	90,500	Yes	30	2.31	113,600	12,000	-	No	
31	9.63	34,900	3,600	51,800	Yes	31	1.78	40,300	4,900	-	No	
32	25.39	324,800	7,000	228,300	Yes	32	-	-	-	-	No	
33	10.16	16,100	1,600	54,900	Yes	33	-	-	-	-	No	
TOTALS	1,077.74	4,558,600	120,800	4,247,500			834.14		For Comparison Or	nly		

Note: 1985 Gauging Data reference: "Town of Needham, Massachusetts, Infiltration/Inflow Investigation", CDM, April 1985
Per DEP "Guidelines for Performing Infiltration/Inflow Analyses and Sewer Systems Evaluation Surveys" revised January 1993, infiltration flow rates greater than 4,000 gpd/in-mi are considered to be excessive



^{*}Installed 4/10/13, did not include high groundwater period

^{**}Removed 4/10/13 due to zero velocity readings. Results interpolated

Average flow rate for nighttime monitoring, when sanitary flows are typically negligible, is considered to be an estimation of infiltration rate for these subareas.

Groundwater gauges were installed in Subareas 12, 14, 21, and 23 for the entirety of the 12 week study period. By measuring groundwater level in inches above the invert of the pipe, a correlation between groundwater elevations and infiltration may be made. A rain gauge was installed at the Great Plain Avenue Pump Station and data was collected during the 12 week study period in 15-minute intervals. Rainfall gauging was conducted to correlate rainfall intensity to inflow volumes and facilitated projection to a standard 1- storm year/6-hour event. Data from the permanent rain gauge at the Water Treatment Plant was also recorded during the study period. Historical rain data from this rain gauge was taken to help establish a baseline for flow. When comparing monthly rainfall amounts recorded in 2013 to the previous 4 years (2009-2012) it was identified that rainfall amounts during the study period in March and May were similar to previous years while April's rainfall amounts in 2013 were less than previous years and rainfall amounts in June 2013 were considerably higher than previous years.

MWRA Flow Meter Data

The Massachusetts Water Resources Authority (MWRA) owns and operates two continuous flow meters in the Town of Needham used for billing purposes. BETA requested flow metering data from the MWRA for both their meters during the 12 week study period in order to compare meter results and establish a baseline for flow. MWRA average daily flows for the previous five year period (2009-2013) was obtained and compared to the average flows recorded during the study period. Monthly average MWRA flow meter data recorded in 2013 followed a similar trend to rainfall amounts when compared to data from the previous 4 years (2009-2012). Average daily flow during the study period in March and May were similar to previous years while April's average daily flow in 2013 was less than previous years and average daily flow in June 2013 was considerably higher than previous years.

Infiltration Analysis and Results

Infiltration is defined as water, other than wastewater, that enters a sewer system from the ground through defective pipes, pipe joints, connections, and manholes. To determine infiltration rates, flow monitoring data was examined to identify periods of dry weather during high and low groundwater periods. Peak infiltration was quantified by taking the average of minimum nighttime flows during the high groundwater period. Minimum infiltration was quantified by taking the average of minimum nighttime flows during the low groundwater period. Annual average infiltration flow was estimated by calculating a weighted average of peak infiltration and minimum infiltration. To determine infiltration flow rates and compare subareas of varying sewer lengths and diameters, infiltration flows are divided by the length of sewers in miles multiplied by the diameter of the pipes to get an infiltration flow rate in gallons per day per inch-mile (qpd/in-mi).

Subarea 4 exhibited the highest infiltration rate, 16,200 gpd/in-mi. 14 subareas, including subarea 4, had a peak infiltration greater than 4,000 gpd/in-mi. Based on DEP Guidelines, an infiltration rate greater

than 4,000 gpd/idm is considered to be excessive and should be recommended for internal TV inspection. Table ES-2 lists the subareas with a peak infiltration rate of greater than 4,000 gpd/in-mi.

Table ES-2: Subareas with Excessive Infiltration

Subarea	Peak Infiltration Flow	Inch-Miles of
Subarea	Rate (gpd/in-mi)	Sewer Pipe
4	16,200	2.68
16	11,600	81.21
14	8,500	66.82
11	8,100	69.19
6	8,100	6.61
32 & 18	7,000	46.50
20	6,600	49.75
22	6,200	106.49
27	6,000	10.23
3	6,000	5.06
19-1	5,500	54.07
21	5,100	108.04
17	4,600	24.10
30	4,200	13.47

Inflow Analysis and Results

Inflow occurs when rainfall enters the sewer system through direct connections such as roof leaders, yard drains, catch basins, sump pumps, manhole covers and frame seals. Inflow was estimated using meter data in both dry weather and wet weather conditions to determine the volume and peak one hour rate of inflow. The wet weather period analyzed was June 6 to June 10, 2013 and the dry weather period was May 2 to May 6, 2013. Inflow rates were calculated by subtracting dry weather flow from wet weather flow in each subarea. These inflow curves were also compared to rainfall amounts during the storm event. Metered inflow was extrapolated to the 1-year design storm to be easily comparable to the "quantified inflow" volume and rate from previous studies.

Inflow rates and total inflow volumes for all subareas with flow meters installed in the Town of Needham, between the end of March and end of June 2013, are found in Table ES-3. Total Inflow Volume corrected for the 1.7" storm for the combined subareas is estimated at 2.85 million gallons. Total Peak Inflow corrected for the 1.7" storm for the combined subareas is estimated at 4.25 mgd.

Table ES-3: Subarea Inflow Rates and Volumes

Subarea	Peak One Hour Inflow as Calculated (GPD)	Peak Inflow Corrected for 1.7" Storm (GPD)	Total Inflow Volume as Calculated (gal)	Total Inflow Volume Corrected for 1.7" Storm (gal)
5	44,000	19,800	32,400	14,600
10	226,000	101,800	183,000	82,400
11	740,000	333,200	533,600	240,300
12	76,000	34,200	16,400	7,400
13	89,000	40,100	74,300	33,500
14	641,000	288,600	270,000	121,600
15	286,000	128,800	197,100	88,700
17	70,000	31,500	62,000	27,900
19-1	586,000	263,900	725,100	326,500
20	664,000	299,000	612,600	275,800
21	1,453,000	654,200	427,600	192,500
22	959,000	431,800	1,129,000	508,300
23	121,000	54,500	114,200	51,400
24	370,000	166,600	384,200	173,000
26 & 16	1,802,000	811,400	489,500	220,400
27	83,000	37,400	72,400	32,600
28	49,000	22,100	23,100	10,400
29	229,000	103,100	220,500	99,300
30	201,000	90,500	114,100	51,400
31	115,000	51,800	126,300	56,900
32 & 18	507,000	228,300	434,900	195,800
33	122,000	54,900	88,500	39,800

Monitored Storm Event occurred June 7-8, 2013: 3.83 inches

Recommendations

Based on results from the Phase I investigation, a plan was developed for TV inspections, recommended sites to install permanent and portable flow meters, and devised a strategy to address Infiltration/Inflow.

TV Inspections

BETA analyzed infiltration and inflow results to develop a strategy for TV inspections to be completed in the near future. Recommendations were based primarily on infiltration values. Taken into consideration, was location of the subareas, the year each subarea was last TV'd, and whether the entire subarea or only part of the subarea was inspected. Table ES-4 lists subareas recommended for TV inspection in order of priority. The map in Appendix K depicts sewer reaches recommended for TV inspection.

Table ES-4: Year One Priority Subareas Recommended for TV Inspection

Priority	Subarea	Total Length of Pipe in	Length of Pipe to be
		Subarea (feet)	Inspected (feet)
1	4	1,991	1,991
2	14	41,276	38,313
3	11	40,852	38,841
4	6	3,537	1,414
5	32	13,918	13,177
6	20	31,154	30,854
7	Upper 22	42,799	39,704
8	3	3,366	3,366
9	27	7,155	7,155
10	19-1	34,525	34,525

Permanent and Portable Meter Locations

After analyzing flow data from spring 2013, the results were discussed with the Town and recommended subareas for further metering including permanent and portable meters were presented. Each meter location was determined based on magnitude of infiltration/inflow as well as size of the sewer subarea. BETA also recommended additional initial locations to place temporary meters once meters are no longer required at the original locations. Summary tables and details regarding the permanent and portable meter locations can be found in Section 9.

Recommended I/I Program

Based on results from the Phase I Investigation, BETA has developed a strategy for upcoming CCTV investigations. Sewer lines recommended for TV inspection are those line segments determined by the results of the flow monitoring and isolation gaging program to have excessive infiltration and/or inflow. Approximately 209,000 feet of pipe is recommended to be CCTV inspected in the first year of TV inspections based on the anticipated budget for this program. This work is recommended in order of highest priority for the following subareas: 4, 14, 11, 6, 32, 20, Upper 22, 3, 27 & 19-1.

In addition to TV inspection, BETA recommends other methods for I/I investigation and removal of inflow. Methods include dye testing, exterior house-to-house inspections, and sump pump inspections. A recommended alternative to sump pump inspections is a sump pump amnesty program which has been used successfully in other communities. Table ES-5 lists subareas recommended for inflow investigation in order of initial priority.

Table ES-5: Inflow Investigation Priorities by Subarea

Priority	Subarea	Peak Inflow Corrected	Peak Inflow Corrected			
THOTTLY	Jubarca	for 1.7" Storm (GPD/ft)	for 1.7" Storm (GPD)			
1	29	108,200	103,100			
2	21	63,200	654,200			
3	26 & 16	53,900	811,400			
4	30	53,500	90,500			
5	32 & 18	52,200	228,300			
6	20	50,200	299,000			
7	11	43,800	333,200			
8	31	43,500	51,800			
9	33	42,500	54,900			
10	19-1	40,400	263,900			
11	14	37,500	288,600			
12	24	36,900	166,600			
13	10	35,500	101,800			
14	22	32,600	431,800			
15	27	29,200	37,400			
16	28	24,200	22,100			
17	15	21,200	128,800			
18	23	15,100	54,500			
19	5	14,700	19,800			
20	17	10,800	31,500			
21	13	10,000	40,100			
22	12	6,500	34,200			

BETA recommends focus on removal of confirmed inflow sources. The quickest and most inexpensive route to eliminate a significant amount of inflow is by having customers disconnect downspouts going into the foundation and allowing those downspouts to discharge to the ground or route the discharges to the storm drainage system using new or existing on-site stormwater drainage systems. Needham should begin in sub-areas with the highest "rain as inflow percentages" or in sub-areas with the largest inflow volumes relative to subarea size and continue on throughout Town. It is recommended that a pilot dye testing program be conducted in these areas where potential inflow sources were not previously confirmed by smoke testing to determine the likelihood of success.

BETA recommends that the Town continue monitoring flows at the permanent and temporary meter sites especially following infiltration rehabilitation or inflow disconnection work flow to evaluate the effectiveness of removal and track seasonal and annual trends.

Section 1 Introduction

1.1 Purpose of Report

This investigation is part of a continuing effort by the Town of Needham to reduce sources of infiltration/inflow (I/I) in the wastewater collection system. The purpose of this study was to assess the location and extent of infiltration/inflow conditions in the Town of Needham sewage system and to recommend a cost-effective course of action. 30 of the 33 predefined subareas were analyzed and assessed for potential I/I sources as selected based on results of previous I/I reports and through discussion with Town staff. Results of the investigation and analysis of flow data were used to determine possible presence, quantity and type of I/I within Needham's sewer system. As part of this report, BETA also developed a 20-year Capital Improvement Plan aimed at systematically addressing I/I.

Work for this investigation was to be conducted in accordance with guidance from the DEP "Guidelines for Performing Infiltration/Inflow Analysis and Sewer System Evaluation Survey", revised January 1993.

1.2 Project Scope

The scope of work for this study was based on developing and conducting a town-wide flow monitoring program, analyzing the results, and developing a strategy to address infiltration/inflow. The first task, which laid the framework for the project, was flow monitoring planning and development. This included inventory of existing conditions, review of previous I/I investigations, reports and rehabilitation and review of present and historical MWRA flow meter data from the Town. A sewer sub-area map was created by compiling information from the Town's existing GIS and CAD, populating with previous TV inspection and rehabilitation activities, and adding recent sewer system upgrades. Based on this map, the previous I/I data, and discussion with the Town, proposed flow monitoring sites were identified.

The next step was to evaluate, purchase, install, and maintain flow meters. This involved determining locations and installing 25 flow meters (10 permanent, 2 portable and 13 temporary) for a period of 12 weeks from March 18 through June 27, 2013. During the flow metering period the meters were visited, maintained and calibrated on a weekly basis to ensure accurate readings and data was downloaded weekly. Groundwater and rainfall gauging were conducted during this period and flow metering data from MWRA's two flow meters was also requested on a weekly basis.

Results of the flow metering program were compiled, evaluated and summarized in a report format to identify locations and magnitude of inflow/infiltration. This included flow meter data review and reduction, preparing flow reports and hydrographs for each flow monitoring subarea and studying nighttime dry and wet weather flow data to determine infiltration and inflow. Flow meter data was obtained from the two MWRA meters in Town during the study period as

well as monthly average daily flows from 2009-2013. The MWRA data was analyzed to determine whether the flows recorded during the study period were typical or unusual compared to average flows recorded over the past five years. The study period and MWRA metering results were also used to determine a base flow for future evaluation of increases in flow noted by permanent meters. A cost-effective analysis was completed to prioritize areas for further investigation and to locate each source of infiltration. A plan for future TV inspection, initially targeting a spring 2014 program, was developed as well as an I/I master plan strategy to address and prioritize future infiltration/inflow maintenance and investigations for the next 20-years.

1.3 Study Area

The study area encompasses the Town of Needham's Sewer Subareas 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19-1, 19-2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, and 33. A sewer system map is located in Appendix A. The area is approximately 5,500 acres containing approximately 127 miles of known, active sanitary sewer pipe locations and diameters. The study area included 31 subareas with sanitary sewers range in size from 6" in diameter to 30" in diameter.

1.4 System Background

1.4.1 General

The Town of Needham owns, operates and maintains a wastewater collection system servicing the majority of the Town. According to the MWRA's Annual I/I reduction Report FY2013, the current sewered population is 27,786. The existing collection system consists of approximately 127 miles of active gravity sewer pipe ranging in diameter from 6 to 30 inches. In addition, there is approximately 18 miles of abandoned sewer pipe in the system and 18 miles of MWRA sewer. Originally, smaller diameter pipe was primarily constructed of vitrified clay (VC) and asbestos cement (AC), and larger pipe (18 to 30 inches) was constructed of reinforced concrete (RC). As the collection system expanded, pipe materials changed with the introduction of new materials. Vitrified clay pipes were predominately installed in the early 1900s, followed by asbestos cement pipe in the 1950s and 1960s, and more recently beginning in 1977, polyvinyl chloride (PVC). Manholes were first constructed of red brick, which was followed by cast in place and precast concrete.

There are currently 9 wastewater pump stations operating. Two have been recently replaced: West Street Station in 1999 and Reservoir Street Station B in 2013, both wet well/dry well type stations. Two others have been recently upgraded: Great Plain Avenue Station in 2009 and Kendrick Street Station in 2008. The Great Plain Avenue station is a built-in-place wet well/dry well type and Kendrick Street station is a suction lift type. The Kendrick Street station received controls upgrades in 2014. Reservoir Street Station A and Lake Drive Station are nearly identical prefabricated steel can wet well/dry well type stations constructed in 1968. Reservoir Street Station A had subsequent improvements converting it to a submersible style station. Warren Street Station is a prepackaged steel submersible station, very small in size with an unknown

construction date. Alden Road Station a built-in-place wet well/dry well type station was built in the mid-1950s and Milo Street Station was originally built in 1969 and rebuilt in 1982 with submersible pumps installed in the wet well utilizing the original discharge piping and valves. Flows to the former Richardson Drive pump station were redirected by gravity down Farley Pond Lane and the station was demolished in 2010. In 1999, CDM investigated and evaluated all of the Town's wastewater pump stations. Some recommendations for upgrades have been applied in the recent station replacements and upgrades. Summaries of the Pump Station Reports and other reports can be found in Section 3 of this report.

The Town of Needham does not operate wastewater treatment facilities. Sewage from the Town is conveyed to the MWRA collection system and treated at the Deer Island Sewage Treatment Plant. Flow from Needham is collected by the MWRA Wellesley Extension system servicing Needham, Wellesley, and Dedham in addition to the Framingham Extension Sewer. This system originally consisted of the Wellesley Extension Sewer (WES) constructed in the 1920s and the Wellesley Extension Relief Sewer (WERS) constructed in the 1960s. In the late 1980s, due to capacity issues causing surcharge and overflows, work began to improve the Wellesley system by constructing the Wellesley Extension Sewer Replacement (WESR). Work involved abandoning the existing WES, constructing the WESR, and rehabilitating the WERS, all of which has been completed and is fully operational.

The Town's system is divided into 33 subareas which originated from CDM's 1985 I/I study. A map of the sewer system can be found in Appendix A. Table 1-1 details approximate lengths of pipe and inch-miles of pipe in each sewer subarea categorized by pipe diameter. Sewer pipes owned by the MWRA are not included in Table 1-1.

1.4.2 Infiltration and Inflow

Infiltration is defined as groundwater entering the sewer system through pipe, manhole, and pump station defects. Defects are a result of general aging of a sewer system including pipe material design life, pipe and manhole failure, break-in connections, etc. Infiltration rates are dependent on groundwater elevation as well as on rainfall permeation through soil. Infiltration is a steady 24-hour flow that usually varies during the year in relation to the groundwater levels above the sewer. The higher the groundwater table rises above the sewer, the more infiltration will enter the system through defects. The sewage system is susceptible to infiltration due to the age of many of its sewers especially given the number of joints associated with small lengths of VC pipe. The Town has been actively investigating and rehabilitating its sewer system to locate and remove infiltration.

The sewage collection system also experiences inflow defined as stormwater or groundwater entering through direct connections. Inflow is water other than sanitary flow or infiltration that enters a sewer system from direct sources such as roof leaders, sump pumps, cellar drains, yard drains, area drains, manhole covers, cross connections between storm sewers and sanitary

Table 1-1: Length of Sewer Pipe in Subareas

Cubaras	Total Linear							Pipe Le	engths (f	t)						Inch Miles
Subarea	Footage (ft)	5-inch	6-inch	8-inch	9-inch	10-inch	12-inch	14-inch	15-inch	18-inch	20-inch	21-inch	22-inch	24-inch	30-inch	Inch-Miles
1	18,217	401		6,094		568	1,225		1,762	4,003	819	1,668		761	914	50.52
2	6,923			4,195		1,230						393		1,105		15.27
3	3,340			3,340												5.06
4	1,768			1,768												2.68
5	7,104			6,167		937										11.12
6	3,520		385	784		935	1,416									6.61
7	1,666			1,666												2.52
9	1,016	1,016														0.96
10	15,140			12,706		2,434										23.86
11	40,183		680	31,042		4,344	774			3,342						69.19
12	27,673			23,725		2,366	1,582									44.02
13	21,108			18,158			222	2,728								35.25
14	40,670	403	475	32,374	295	3,071	1,724		2,328							66.82
15	32,068		758	26,672		430	4,208									51.65
16	45,277	114	2,669	30,688		3,287	2,058		2,382	4,079						81.21
17	15,339			14,112		176	1,051									24.10
18	9,290						9,290									21.11
19-1	34,525		2,044	28,941		402	3,139									54.07
19-2	7,875	98		7,777												11.88
20	31,448	204	605	24,174		6,466										49.75
21	54,696	246	350	38,722			5,373	215		5,462		3,671	658			108.04
22	69,844	949	3,885	61,204		560	3,246									106.49
23	19,054			17,514		635	905									29.80
24	23,861			21,967		166	1,729									37.53
25	13,014	398	82	11,146			1,389									20.51
26	34,183	193	2,330	25,467			815		1,804	410	1,152	586		440	987	64.09
27	6,753			6,753												10.23
28	4,829			4,829												7.32
29	5,033		518	4,515												7.43
30	8,925		146	8,779												13.47
31	6,293	265		5,840					188							9.63
32	13,782		330	7,218		247	5,988									25.39
33	6,818		452	6,366												10.16
Total	631,236	4,288	15,708	494,701	295	28,252	46,134	2,943	8,464	17,297	1,971	6,318	658	2,306	1,901	1,077.76

Note: Data compiled in December 2013



sewer, and catch basins. The amount of inflow that enters a system is directly related to the intensity and duration of a storm event. In addition, the elevation of the groundwater table may affect the amount of inflow entering a system from sources such as sump pumps.

Inflow consists of two components: direct inflow and delayed inflow.

Direct inflow consists of extraneous flow from direct connections to the sewer system such as catch basins, roof leaders, area drains and holes in manhole covers. Peak intensity flow in sewers due to a rainfall event usually occurs during or immediately following the event. The majority of inflow during this time period is of the "direct" type.

Delayed inflow consists of extraneous flow continuing for an extended period after a rainfall event, and is typically caused by basement drains, foundation drains, and sump pumps connected into the system. Delayed inflow is considered as such because rainfall must pass through the ground before entering the sanitary sewers. Delayed inflow may appear as "infiltration" during a rainstorm or as a high infiltration rate 24-hours to several days after the rainstorm. The latter case is sometimes referred to as rainfall dependent infiltration.

The presence of excessive infiltration and inflow in a sewer system reduces the effective capacity of the system and wastewater treatment facility by occupying volume that could otherwise be used for transporting or treating wastewater. When the capacity of the system or treatment plant is exceeded the surcharge of wastewater may back up into basements or may be discharged through a sanitary sewer overflow (SSO) to local waterways. Reducing infiltration and inflow can result in a significant reduction in hydraulic loading on sewer systems and treatment facilities preventing basement back-ups and SSOs. Reduced hydraulic loading can result in lower capital costs associated with extended pumping periods, constructing relief sewers as well as lower operation and maintenance costs associated with larger facilities and transporting larger flows. Capital costs are also incurred for transportation and treatment provided by MWRA and assessed to the Town for each gallon received.

Since the initial I/I Investigation in 1985, the Town has conducted planning studies and developed repair, rehabilitation and replacement programs to reduce inflow and infiltration (I/I). The Town has continued to prioritize and complete repair and rehabilitation projects including those in top priority Areas 1, 3, 4, 6, 7, 11, 14, 19-1, 22, 30 and 31 which were identified in the Wastewater Master Plan.

Since 2008, based on I/I removal projects, the Town has removed an estimated 324,583 gallons per day of peak inflow and infiltration from the system. See Table 1-2 below.

Table 1-2: Summary of Inflow and Infiltration Removal

Project Name	Estimated I/I Removed (gpd)
2008 BETA Areas 2, 24, Lower 21	47,282
2009 BETA Richardson Drive Sewer Project	5,429
2011 BETA Areas 16 & 22 Phase I	54,151
2011 BETA Areas 16 & 22 Phase II	40,262
2011 BETA Areas 16 & 22 Phase III	22,644
2012 CIPP Charles River Easement	41,855
2013 Sewer Rehabilitation	98,640
2014 Sewer Rehabilitation	14,320
Total	324,583

1.4.3 Historical SSOs

Sanitary sewer systems are designed to collect and transport sewage to a facility for treatment prior to discharge to the environment. Unintentional discharges of raw sewage into the environment occasionally occur in almost every municipal separate sanitary sewer system. These types of discharges are called sanitary sewer overflows (SSOs) and have a variety of origins. SSOs may occur due to blockages, line breaks, sewer defects that allow stormwater and groundwater to overload the system during large rain events, pump station failures, lapses in sewer system operation and maintenance, power failures and many other reasons. The untreated sewage from these overflows contaminates our waters causing water quality and human health and safety concerns. The owner/operator of the wastewater collection system must notify DEP with an immediate telephone call or email notification and submit a written SSO Report Form within five days of occurrences.

In 2013 and 2014, the Town reported seven SSO incidents to DEP. The incidents are summarized below:

- <u>4/4/2013</u> At the intersection of Kendrick Street and Third Avenue approximately 1,000 gallons of SSO was pumped from the sanitary sewer to a nearby catch basin tributary to Cutler Lake in order to replace a 20 foot section of collapsed 8-inch gravity sewer main.
- 6/14/2013 & 6/20/2013 At the intersection of Oak Street and Henderson Street
 approximately 20,000 gallons of SSO was pumped from the sanitary sewer manhole at
 that location into a nearby catch basin tributary to Trout Pond in order to avoid sewer
 back-up into nearby homes.
- 12/9/14 The Town experienced four SSO events: Lincoln Street, Oak Street, Plymouth Street, and Highgate Street. At all locations, SSO was pumped from the sanitary sewer manhole in order to avoid sewer back-up into nearby homes.

1.4.4 MWRA Wastewater Flow Estimates

The MWRA currently has two continuous flow meters that record the majority of Needham's wastewater flow. Each meter records depth and velocity of the wastewater in the pipes to compute flow at each gauging station at 15 minute intervals. The meters are equipped with telemetry and data is downloaded from the gauges each month. The first meter NH1C is installed in the 33-inch by 36-inch Wellesley Extension Sewer (WES) immediately downstream of the siphon at the Needham/Dedham town line. Average daily flow in 1997 for this meter was 3.40 mgd. The second meter NH2C is located off of Great Plain Avenue in a 24-inch circular sewer. Average daily flow for this meter was 1.83 mgd in 1997. The MWRA computed the total estimated wastewater flow for the Town of Needham in 1997 at 5.30 mgd. This MWRA metered flow data was obtained from the Town's Wastewater Master Plan dated March 1999. BETA obtained flow meter data from the MWRA for both of their meters during the Spring 2013 Flow Metering Program as well as monthly average daily flows from 2009 – 2013. Average daily flows for the years 2009-2013 were generally lower than those recorded in 1997 with the average for the 5 year period being 2.55 mgd at meter NH1C and 1.21 mgd at meter NH2C. MWRA flow meter data is discussed in more detail in Section 6 of this report.

1.5 Project Approach

BETA conducted a Phase I investigation of Sewer Subareas 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19-1, 19-2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, and 33. Tasks included development and implementation a temporary and permanent flow meter program, instantaneous flow isolation, installing a temporary rain gage and conducting MWRA meter analysis for data comparison. Following data collection, results were used to develop a cost-effective analysis to prioritize areas for further investigation and create a detailed strategy for Phase II of the investigation including CCTV Investigations.

1.6 Definitions and Abbreviations Used in This Report

1.6.1 Definitions

- a. <u>Inch-Miles</u> A measurement of sewer pipelines computed by multiplying the inch diameter or the equivalent diameter of the pipe by its length in miles.
- b. <u>Infiltration</u> Infiltration is defined as the water entering a sewer system, including building sewers, from the ground, through such means as defective pipes, pipe joints, connections, or manhole walls. Infiltration rates are dependent on groundwater elevation as well as rainfall permeation through soil. Infiltration does not include inflow.
- c. <u>Inflow</u> Inflow is defined as water discharged into a sewer system, including service connections, from such sources as roof leaders, cellar drains, foundation drains and storm drains. Inflow consists of two components, direct and delayed inflow. Direct inflow consists of flow from direct connections to the sewerage system such as cross connections from storm
- d. <u>Rehabilitation</u> Repair work on pipelines, manholes and other sewer system appurtenances which have been determined to contribute excessive I/I or are found to be structurally deficient.

- e. <u>Sanitary Flow</u> Sanitary flow is defined as sewer flow which includes residential, commercial, industrial, and institutional flow. Sanitary flow excludes extraneous flow.
- f. <u>Sub-Area</u> An area within the sewer system whose flow is monitored by a flowmeter.
- g. Storm Drains conduit intended to carry only stormwater flow.
- h. <u>Extraneous Flow</u> quantity of water from both infiltration and inflow without distinguishing the source.
- i. <u>Infiltration/Inflow</u> Total quantity of water from both infiltration and inflow, also termed extraneous flow.
- j. <u>Sanitary Sewer</u> conduit intended to carry only sanitary wastewater from residences, commercial buildings, industrial plants, and institutions.

1.6.2 Abbreviations

AC asbestos cement BETA BETA Group, Inc.

CAD Computer-aided design
CCTV Closed Circuit Television
CDM Camp Dresser & McKee
CIPP Cured-in-place-pipe

DEP Massachusetts Department of Environmental Protection

DPW Needham Department of Public Works

ENR Engineering News Record

EST Associates, Inc.

GASB Governmental Accounting Standards Board

GIS Geographic Information System

gpm gallons per minute gpd gallons per day

gpd/in-mi gallons per day per inch diameter mile

I/I Infiltration/Inflow
MGD million gallons per day

MWRA Massachusetts Water Resources Authority

PVC polyvinyl chloride RC reinforced concrete SMH sewer manhole

SSO sanitary sewer overflow

USGS United States Geological Survey

VC vitrified clay

WERS Wellesley Extension Relief Sewer

WES Wellesley Extension Sewer

Section 2

Previous Investigations, Reports and Rehabilitation

2.1 General

Numerous infiltration/inflow studies and rehabilitation work have been completed for the Town of Needham since 1985. The 1985 I/I study conducted by CDM was the first significant step in the Town's ongoing I/I program. Figure 2-1 identifies sewer that was smoke tested during previous investigation work and is an example of one of many I/I investigation methods used in the numerous studies consulted for this report.

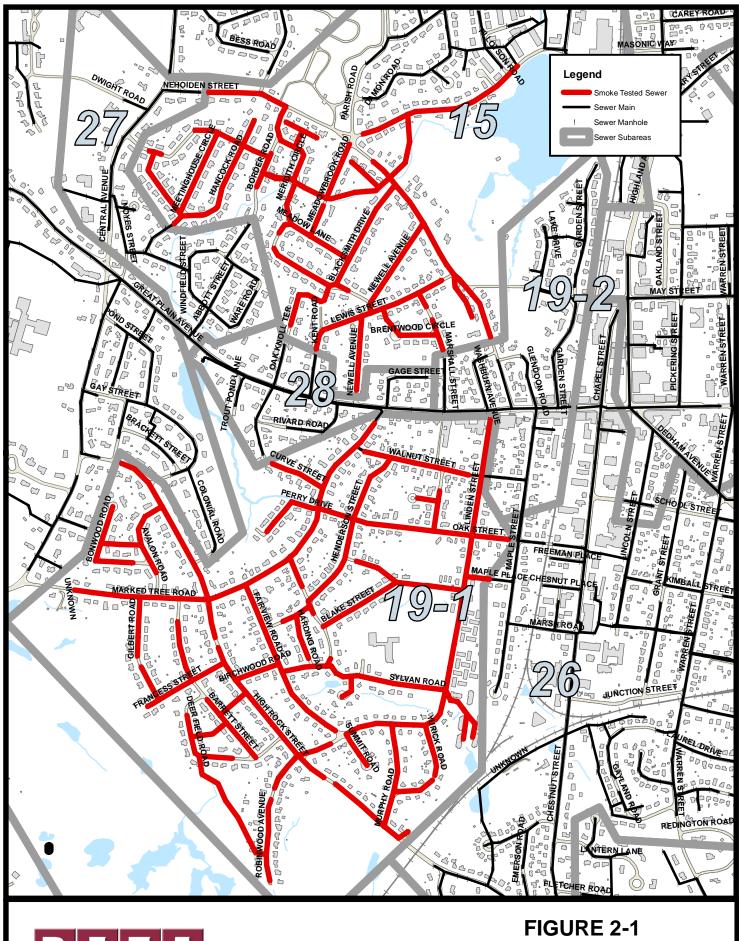
2.2 Previous I/I Investigations

"Town of Needham, Massachusetts, Infiltration/Inflow Investigation", CDM, April 1985
CDM conducted an Infiltration/Inflow investigation of the entire wastewater system within the
Town of Needham. The system was divided into 32 subareas where flow gaging was conducted
over a two month period between April and June 1984. In addition, approximately 500 sewer
manholes were visually inspected to document existing conditions. Infiltration and Inflow
volume was estimated in Subareas 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19-1, 19-2, 20,
21, 22, 23, 24, 25, 26, 30, and 31 using flow gaging in Phase I. Subareas 3, 4, 5, 6, 7, 9, 10, 11, 14,
30, and 31 were identified as having possible excessive I/I during this phase were subsequently
investigated under the Phase II flow isolation program. As a result of the investigation, CDM
provided the Town with cost effective infiltration removal recommendations and recommended
TV inspections and smoke testing to determine possible sources of infiltration and inflow.
Subareas 3, 6, 11, 14, and 30 had excessive quantities of infiltration and inflow present in
Subareas 11, 16, 19-1, and 26.

Per a Massachusetts Department of Environmental Quality Engineering's Administrative Order, a house-to-house sump pump inspection program was required for the Town of Needham, requiring the Town to remove all illegal sewer connections. CDM recommended this program be implemented as the Town's first priority as the investigation indicated the bulk of identified inflow was primarily due to connections from private property.

"Phase II Sewer System Evaluation Survey", CDM, July 1987

CDM conducted a Sewer System Evaluation Survey on portions of the Town's wastewater collection system as recommended in their previous Infiltration/Inflow Investigation Report dated April 1985. Closed-circuit television inspection was completed in Subareas 6, 7, 11, 12, 30 and 31. Following DEP I/I guidelines, a cost-effectiveness analysis was completed for infiltration rehabilitation work and recommendations made for rehabilitation to reduce infiltration and inflow in each subarea. Running concurrent to this report was the Town's Private Source Inflow (house-to-house) Inspection Program. It was recommended that the house-to-house inspection and assessment program be completed prior to any additional recommendations being made to address inflow removal and additional sources of rainfall dependent infiltration.







Smoke Testing Completed Under Previous I/I Investigation

Private Source Inflow (house-to-house) Inspection Program, Town of Needham, 1980-1991 The Town's Private Source Inflow (house-to-house) Inspection Program was mandated by an administrative order by Mass DEP to identify and remove all illegal sewer connections contributing inflow from private property. Through this inspection program a total of 147 houses were found to have a sump pump discharging to the sanitary sewer. Below is a table providing total number of houses with illegal sump pump connections broken down by sub-area. A detailed list with house addresses and inspection details is included in Appendix H. This list is a compilation of inspections completed during this program and a subsequent program completed in 2008-2009.

Table 2-1: 1980-1991 Illegal Sump Pump Connections by Subarea

Sub-Area	No of Houses with Illegal Sump Pump Connections				
1	1				
2	4				
3	1				
4	2				
6	1				
7	1				
11	11				
12	7				
13	2				
14	4				
15	8				
16	20				
19	13				
20	7				
21	4				
22	20				
23	9				
24	4				
25	1				
26	12				
27	5				
28	1				
30	1				
Total	139				

"Town of Needham, Massachusetts, Volume 1 of Supplemental Infiltration/Inflow Investigation", CDM, February 1989

This report expands on the previous Infiltration/Inflow Investigation and evaluation reports completed by CDM dated April 1985 and July 1987. This report is based on flow metering conducted between March 20, 1988 and June 29, 1988. Flow isolation studies were conducted in Subareas 22, 12, 13, 15, and 17 because of unique conditions in those subareas. Particularly Subarea 22 with sewers passing through low swampy areas. As a result of this study five recommendations were made as follows: TV Inspection of specific pipe segments in Subarea 22 and Subarea 23, concentrate efforts to identify sources of significant inflow originating in Subareas 19, 25, 18 and 15, further study and correct the condition causing back-up at/adjacent to the common receiving manholes for Subareas 17, 25 and 14 at the Reservoir B pump station, further study and correct the condition causing back-up in Subarea 21 possibly adjacent to the discharge from the Kendrick Street pump station, and installation of flow meters at all of the pump stations to provide data for future analysis of the collection system.

"Town of Needham, Massachusetts, Volume 2 of Supplemental Infiltration/Inflow Investigation", CDM, February 1989

This report contains Appendix D: Manhole Inspection Reports and Appendix E: Photo Record of Manhole Inspections of the previously described Supplemental Infiltration/Inflow Investigation report completed by CDM.

"Town of Needham, Massachusetts, Automated I/I Management System: Needs Assessment and Implementation Plan", CDM, May 1994

This report discusses the need and potential implementation of an Automated Infiltration/Inflow Management (AIM) system with the potential for expansion into a town-wide GIS for the Needham Department of Public Works. A Cost/Benefit Analysis was conducted to compare the cost of AIM development, implementation and maintenance to the cost of maintaining existing manual operations. A secondary Cost/Benefit Analysis was performed for expansion of AIM into a town-wide GIS. A pilot project was also conducted as part of the report. Based on the results of the Cost/Benefit Analysis' and the pilot project, it was recommended that the DPW proceed with the development of the AIM system to address removal of I/I and once complete, migrate the AIM system into a town-wide GIS.

"Needham, Massachusetts. Report of Sewer System Evaluation Survey Field Work Smoke Testing", Utility Pipeline Services, November 1994

Utility Pipeline Services investigated sewer mains in the southern half of Subarea 15 of the Town's sewer system to identify areas of possible infiltration or inflow. Smoke testing was performed on a total of 19,323 linear feet of sewer with smoke being forced into the manhole with a high volume blower. Sewer lines upstream and downstream of each test segment were restricted to concentrate the smoke. Areas with suspected inflow were recorded along with areas of confirmed inflow. Smoke testing results did not indicate any direct connections

contributing to inflow. Utility Pipeline Services did suspect inflow in numerous other locations, and recommended these locations be considered for dyed water testing. The following locations were suspected sources of inflow:

O 29 Meetinghouse Road, 159 Meetinghouse Circle, 172 Meetinghouse Circle, 166 Meetinghouse Circle, 146 Meetinghouse Circle, 77 Hancock Road, 68 Hancock Road, 64 Hancock Road, 58 Hancock Road, 77 Border Road, 61 Border Road, 99 Border Road, 16 Meredith Circle, 10 Elizabeth Circle, 11 Elizabeth Circle, 48 Meadowbrook Road, 55 Blacksmith Drive, 20 Meadow Lane, 61 Meadowbrook Road, 45 Meadowbrook Road, 1 Elizabeth Circle, 97 Meadowbrook Road, 93 Meadowbrook Road, 94 Meadowbrook Road, 109 Meadowbrook Road, 108 Meadowbrook Road, 116 Meadowbrook Road, 122 Meadowbrook Road, 158 Meadowbrook Road, 65 Blacksmith Drive, 29 Blacksmith Drive, 49 Blacksmith Drive, 283 Nehoiden Street, 280 Nehoiden Street, 249 Nehoiden Street, 205 Nehoiden Street, 291 Nehoiden Street, 45 Lewis Street, 39 Lewis Street, 52 Oakknoll Terrace, 25 Prospect Street, 9 Prospect Street, 115 Newell Ave, 108 Newell Ave, 103 Newell Ave, 93 Newell Ave, 104 Newell Ave, 46 Brentwood Circle, 51 Brentwood Circle, 37 Newell Ave, 17 Newell Ave, 24 Newell Ave, 52 Newell Ave, 326 Rosemary Street, 331 Rosemary Street, 286 Rosemary Street, 276 Rosemary Street, 267 Rosemary Street

"Town of Needham, Massachusetts, Wastewater Master Plan, Volume 1", CDM, March 1999 As part of the wastewater master plan for the Town of Needham, CDM estimated existing and future population and wastewater flows, identified sewers that may be undersized, conducted a wastewater collections system and sewer needs analysis, discussed wastewater treatment and disposal alternatives, prioritized areas for implementation, created a plan for reducing infiltration and inflow, and prepared cost estimates for implementing plans.

The existing collection system contained approximately 300,000 linear feet of sewer lines and 1,500 manholes. A Geographic Information System (GIS) was also developed for the existing sewer system. Infiltration/Inflow was estimated at 3.48MGD. Subareas with peak infiltration rates less than 4,000 gpd/in-mi were not considered for further inspection or rehabilitation. CDM recommended TV inspection, manhole inspections, and rehabilitation in Subareas 3, 1, 18, 16, 15, 17, 29, 25, and 2. They also recommended a follow-up house-to-house inspection program to further locate sources of inflow.

CDM also prepared a capital improvements program as a long-term program aimed at further reducing I/I flow. They recommended performing manhole inspections every 5 years, TV inspections every 15 years, continuous flow gauging every 4 years, and flow isolation every 10 years.

CDM reviewed previous Infiltration/Inflow reports and summarized their findings within the wastewater master plan report. The following investigations were performed prior CDM's 1999 Wastewater Master Plan report.

- Cost-effective rehabilitation was previously performed in subareas 6, 7, 11, 14, 30, and 31.
- TV inspection was performed in Areas 19-1 and 22.
- Based on CDM's prior rehabilitation recommendations, the Town of Needham conducted house-to-house inspections to identify sources of inflow. The Town was granted entrance to 5,802 of 7,259 buildings. They found open cleanouts, direct or indirect connection sump pumps, undetermined connection sump pumps, and sump pumps discharging to the ground.

"Town of Needham, Massachusetts, Wastewater Master Plan, Volume II, Appendix K – Pump Station Reports", CDM, March 1999

In Volume II of the Wastewater Master Plan, CDM discussed the results of their 1995 investigation work of Needham's wastewater pump stations. Since this investigation, many of the stations have been upgraded, replaced or eliminated. The following is a list of the stations inspected and evaluated in the Master Plan:

- 1. Great Plain Avenue Pump Station (Upgraded 2009)
- 2. Kendrick Street Pump Station (Upgraded 2008)
- 3. Reservoir Street Pump Station B (Replaced 2013)
- 4. Milo Circle Pump Station
- 5. Alden Road Pumping Station
- 6. Richardson Drive Station (Eliminated in 2010)
- 7. West Street Wastewater Pumping Station (Replaced 1999)
- 8. Reservoir Street Pump Station A
- 9. Lake Drive Pumping Station
- 10. Warren Street Pumping Station

BETA Group, Inc. evaluated the existing sewer collection system within the right-of-way of Route 128 and provided recommendations for improvement. TV inspections were performed on 9,031 linear feet of sewer pipe with pipe diameters ranging from 8" to 24" in diameter. This project was done in advance of the plans to widen Route 128. Of the 35 sewer reaches inspected, none displayed signs of significant structural deficiencies. The most common defects observed were pipe sags, roots in joints, and offset joints. No structural defects or infiltration in sewer manholes was noted. BETA determined it was not feasible to relocate gravity sewers within Route 128 right-of-way without adding pump stations. BETA made the following recommendations:

- All sewers within Route 128 right-of-way be rehabilitated using cured-in-place pipe
- Replace 12-inch force mains for Reservoir Street Pump Station B with new layout configuration: south west from pumping station directly toward Route 128, continuing

[&]quot;Town of Needham, Massachusetts, Route 128 Sewer Investigation", BETA Group, Inc., September 2004

across Hampton Avenue to Gould Street, from Gould Street under MBTA tracks past Highland Avenue and down Hunting Road, finally discharging into gravity system near Kendrick Street. The total length of proposed force main is approximately 6,900 feet.

- Install new controls and pumps at Reservoir Street Pump Station B to accommodate new force main layout.
- · Relocate Kendrick Street force main.
- · Realignment of gravity sewer.

"CY 2005 System Infiltration/Inflow Program Sewer and Manhole Inspection Program Summary Letter Report" BETA Group, Inc., November 2005

BETA Group, Inc. conducted sewer inspections and cleaning between April and August 2005. 35,527 linear feet of sewer pipe ranging from 8" to 22" diameter were inspected using Closed Circuit Television (CCTV) camera to investigate and evaluate areas of selected sewer collection systems in Needham. The goal was to evaluate deficiencies within the sewer system and provide recommendations and cost estimates to address the deficiencies. Deficiencies included infiltration, inflow, and structural integrity. BETA Group, Inc. also performed surface inspections of approximately 209 sewer manhole structures.

BETA inventoried the following sewer subareas:

- Subarea 2
 - o Pipe diameters ranging between 8-in and 12-in
 - o 12,539 linear feet of Asbestos Cement, Vitrified Clay pipe
- Subarea 24
 - o 8-in diameter pipe
 - o 14,598 linear feet of Asbestos Cement, Vitrified Clay pipe
- Lower Subarea 21
 - o Pipe diameters ranging between 8-in and 21-in
 - 8,737 linear feet of Asbestos Cement, Vitrified Clay, Reinforced Concrete, Polyvinyl Chloride pipe

BETA observed a few segments where groundwater infiltrates through cracks in main line and defective service taps. The most common defects were cracks in main line, and roots in joints and service connections. BETA recommended additional repairs to prevent pipe collapse and blockage and additional TV inspections in areas not previously inspected.

Types of rehabilitation BETA recommended included:

- Cured-In-Place Pipe
- Joint Testing and Sealing
- Dig and Replace Sewer Main
- Seal Service Wye
- Seal and Coat Manholes
- Point Repairs

- Chemical Root Treatment
- Dig and Replace Service Connections
- "T" Liner

"Inflow Education Program" BETA Group, Inc., 2006

BETA created an inflow education program for the Town particularly targeting sump pumps illegally connected to the sewer. A scale replica interactive model of a "single family home" was built to demonstrate legal and illegal sump pump connections by pumping water through these two different discharge scenarios.

"Sewer Infiltration Investigation for Sewer Subareas 16 and Lower 22" BETA Group, Inc., 2009 BETA performed an infiltration investigation of subareas 16 and lower 22 based on priority. A 3-Phase Investigation was performed and included; manhole inspections, groundwater monitoring, and TV inspections. Inspections were done between February and April 2008 on approximately 64,000 linear feet of sewer pipeline and 365 sewer manholes. BETA concluded 53,096 gpd of infiltration could be removed from subareas 16 and lower 22.

BETA made the following rehabilitation recommendations:

- CIPP
- Seal Service Laterals
- Dig and Replace Sewer Main
- Seal and Coat Manholes
- Test and Seal
- · Point Repair
- Cleaning
- Chemical Root Treatment

"Sewer Investigation in Richardson Drive, Stonehurst Road & Aldridge Road" BETA Group, Inc., October 2009

BETA investigated sources of infiltration and inflow in sewer systems located on Richardson Drive, Stonehurst Road, and Aldridge Road. The investigation included TV inspections, manhole inspections, and house-to-house sump pump inspections. On June 2008 and April 2009 approximately 2,700 linear feet of sewer pipe line was inspected using CCTV. In May 2008 manhole inspections were conducted and between June and August 2008 house-to-house inspections occurred. 27 houses were inspected for sump pumps. BETA was unable to gain access to 7 houses, and 2 houses had suspect connections. Dye testing was recommended for the 2 houses with suspect connections

BETA suggested two recommendations to reduce infiltration and inflow. The first recommendation was typical I/I rehabilitation including CIPP, cleaning, point repairs, dig and replace, and chemical root treatment. This option had an upfront cost of \$63,463 and would remove 3,348 gpd of I/I. The second recommendation involved typical repairs and the removal

of the Richardson Drive Pump Station and redirection the sewer main. This option had an upfront cost of \$1.1 million and removed 5,429 gpd of I/I. The second recommendation also eliminated future cost of repairs and maintenance for the pump station.

"Sewer Inflow Investigation for Subarea 19.1" BETA Group, Inc., February 2009
BETA conducted an inflow investigation of Subarea 19.1 to locate and identify inflow sources such as sump pumps and roof leaders suspected to be connected to the sewer system. The investigation included house-to-house inspection of each of to the 571 building in the Subarea, smoke testing of the entire Subarea and dye testing of suspect inflow sources. BETA could not gain access to 149 of the 571 households. The investigation found 11 sump pumps in 8 residences connected to the sewer contribute which were estimate to contribute a total of 47,520 to 95,040 gallons per day of inflow to the Needham sewer system. Smoke testing of Subarea 19.1 did not find any suspect inflow sources. BETA recommended disconnection of the confirmed sump pump connections and that the Town take further action to perform inspection on households where access could not be gained during this investigation.

When comparing the house-to-house inspection results from this 2008-2009 study to the "Private Source Inflow (house-to-house) Inspection Program", Town of Needham, 1980-1991 a few things became apparent. The 8 residence with illegal connections in 2008-2009 did not have illegal connections in 1985 when inspections were previously completed in Subarea 19-1. This indicates that the illegal connections in 1985 in Subarea 19-1 were corrected and that new sump pumps had been installed improperly since the 1985 inspections.

"Letter Report, 2012 Miscellaneous Infiltration/Inflow Sewer Rehabilitation Assessment Project" Wright-Pierce, January 2013

Wright-Pierce conducted CCTV Inspections on approximately 12,600 linear feet of sewer pipe in various subareas of Needham to determine conditions of the pipe and identify any potential sources of I/I. Areas of inspection included: Norfolk Street - Subarea 1, Oxbow Road - Subarea 6, Locus Lane - Subarea 7, North Hill Avenue, Gay Street and Smith Street - Subarea 11, Wildale Circle - Subarea 13, Pine Grove - Subarea 14, Damon Road - Subarea 15, Emerson Street, Carriage Lane and High Rock Street - Subarea 26 and High Rock Street - Subarea 30. Approximately 15, 120 gpd of I/I was observed during the course of inspections. 66 manholes within the study area were also inspected.

Wright-Pierce made the following recommendations for pipe rehabilitation:

- Pipe Cleaning and Lining
- CIPP
- Chemical Root Treatment
- Pipe Replacement

Sewer manholes with significant defects or with I/I greater than 4 gpm were recommended for complete replacement. 7 manholes were recommended for replacement.

2.3 Rehabilitation

1994 Sewer System Rehabilitation

In 1994, CDM designed rehabilitation work for sewer subareas 11 and 14. Rehabilitation included:

- Remove and replace sections of gravity sewer (980 linear feet)
- Point repair (200 linear feet)
- Seal manhole (3)

1996 Sewer System Rehabilitation Washington Avenue Area

In 1996, CDM designed sewer rehabilitation work for subarea 22 which was completed by Utility Pipeline services. Rehabilitation included:

- Remove and replace sections of gravity sewer (4,180 linear feet)
- Test and seal (13,260 linear feet)
- Chemical root treatment (9,620 linear feet)
- Point repair (40 linear feet)
- Heavy cleaning (220 linear feet)
- Cured-in-place-pipe (1,000 linear feet)
- Pipe bursting (1,020 linear feet)
- Seal manhole (1)
- New manhole (8)

1997 Sewer System Rehabilitation Area 19-1

In 1997, CDM designed sewer rehabilitation work for subarea 19-1. Rehabilitation included:

- Remove and replace sections of gravity sewer (5,580 linear feet)
- Point repair (27)
- Cured-in-place-pipe (3,000 linear feet)
- Test and seal (15,000 linear feet)
- · Chemical root treatment (2,830 linear feet)
- Heavy cleaning (210 linear feet)

2000 Carol Road and Frank Street

In 2000, CDM designed sewer rehabilitation work for Carol Road and Frank Street in subarea 11 and subarea 14, respectively. Rehabilitation included:

- New gravity sewer (780 linear feet)
- Remove and replace sections of gravity sewer (2,050 linear feet)
- Cured-in-place-pipe (3,180 linear feet)
- New manhole (18)
- Manhole repair (14)

2004 Areas 1, 3, and 4 – Phase II

In 2004, CDM designed rehabilitation work for sewer subareas 1, 3, and 4. Rehabilitation included:

- Remove and replace sections of gravity sewer (1,160 linear feet)
- Point Repair (40 linear feet)

2008 Route 128 Water and Sewer Rehabilitation Subareas 14, 17, 18, 21, 32

Based on the Route 128 Study done in 2004, BETA designed a sewer and water rehabilitation project for the Town of Needham in the Route 128 area. The existing force main from Reservoir B Pump Station was removed and realigned with the following configuration: southwest from pump station, directly under Route 128, along Crawford Street, down Ellis Street, south down Gould Street, to Hunting Road, where the force main discharges near the intersection of Hunting Road and Kendrick Street. The existing force main from Kendrick Street Pump Station was also realigned with the following configuration: southwest from pump station, under Route 128 and discharging to a sewer manhole located in an easement between Route 128 and Greendale Avenue. As part of this project, new gravity sewer was also installed in the following locations; Crawford Street, Under Route 128, between First Avenue and Hunting Road, A Street, Hunting Road, David Road and Sachem Road. Cured-in-place pipe rehabilitation was completed on the sewer line connecting Reservoir Street and Crawford Street, under Route 128. Rehabilitation included:

- New sewer pipe (6,270 linear feet)
- Cured-in-place-pipe (270 linear feet)
- Seal Manhole (40 vertical feet)

2008 Infiltration/Inflow Rehabilitation Project 2, 24 and Lower 21

Based on the 2005 Sewer System Infiltration/Inflow Program Sewer and Manhole Inspection Program, BETA designed a sewer rehabilitation project for the Town of Needham in Subareas 2, 24, and lower 21. The following rehabilitation work was completed

- Chemical root treatment (1,990 linear feet)
- Cured-in-place-pipe lining (730 linear feet)
- Point repair (250 linear feet)
- Remove and replace gravity sewer (125 linear feet)

This rehabilitation work was estimated to remove 47,282 GPD of I/I from subareas 2, 24, and lower 21.

2009 Richardson Drive Sewer Installation and I/I Rehabilitation Subarea 33

Based on the 2009 Richardson Drive study, BETA demolished the existing pump station of Richardson Drive, installed new gravity sewer, and completed some infiltration and inflow rehabilitation. New gravity sewer was installed on Farley Pond Lane from the intersection with South Street, continuing up Farley Pond Lane, and into an easement, connecting to a sewer manhole on Richardson Drive. New gravity sewer was also installed on Richardson Drive,

beginning near the location of the demolished pump station, continuing on Richardson Drive, and ending near the intersection of new gravity main from Farley Pond Lane. New sewer manholes were installed along the path of the new gravity main. The following rehabilitation work was also completed as part of this project:

- Test and seal gravity main (1,300 linear feet)
- Seal and coat manholes along sewer lines that were tested and sealed (2)
- Chemical root treatment on sections of Stonehurst Road (130 linear feet)
- Remove and replace sections of gravity sewer (1,300 linear feet)
- Heavy clean sections (1,300 linear feet)

This rehabilitation work was estimated to remove 5,429 GPD of I/I from subarea 33.

2011 Areas 16 & Lower 22 Infiltration/Inflow Rehabilitation

In 2011, BETA designed rehabilitation work for sewer subareas 16 and lower 22. Rehabilitation included:

- Test and seal gravity main (6,500 linear feet)
- Point repair (16)
- Remove and replace sections of gravity sewer (80 linear feet)
- Cured-In-Place-Pipe lining (2,200 linear feet)
- Grout Service Laterals (38)
- Heavy cleaning (1,350 linear feet)
- Chemical root treatment (9,550 linear feet)
- Manhole replacement (20)
- Seal and Coat Manholes (1)

Rehabilitation of sewer mains was estimated to remove 9,176 GPD of I/I in lower 22 and 36,605 GPD of I/I in subarea 16. Manhole repairs were estimated to remove 1,170 GPD of I/I in subarea 16 and 1,800 GPD of I/I in lower 22. A manhole in subarea 19-1 was also repaired under this design. Repair of that manhole was estimated to remove 5,400 GPD of I/I.

2011 Phase II Areas 16 & Lower 22 Infiltration/Inflow Rehabilitation

In 2011, BETA oversaw construction for Phase II rehabilitation work for sewer subareas 16 and Lower 22. Rehabilitation included:

- Test and seal gravity main (3,700 linear feet)
- Point repair (15)
- Remove and replace sections of gravity sewer (80 linear feet)
- Cured-In-Place-Pipe lining (1,940 linear feet)
- Chemical root treatment (2,000 linear feet)

2012 Phase III Areas 16, 22, and Others Design

The design for this project was based off BETA's report "Sewer Infiltration Investigation for Subareas 16 and Lower 22" dated January 2009. The Town of Needham also located sewer reaches in need of repair for this design. Infiltration and structural rehabilitation was proposed in subareas 16 and 22 as well as other areas of the Town's sewer system. Rehabilitation included:

- Chemical root treatment (650 linear feet)
- Clean, test, and seal (800 linear feet)
- Point repairs (20)
- Remove and replace sections of gravity sewer (80 linear feet)
- · Cured-in-place gravity sewer (2,200 linear feet)
- Replace manholes (14)

An estimated 22,000 gpd of the observed 45,000 gpd of infiltration was eliminated in this phase of the design.

2012 Cured-in-Place Lining Charles River easement off of Reservoir St.

Kelly Engineering led the design and installation of CIPP work in order to remove infiltration to mitigate the expansion of Wingate Healthcare. The CIPP work limits were within an easement off of Reservoir St from the railroad tracks to the existing Reservoir B pump station. This rehabilitation work was estimated to remove 41,855 GPD of I/I. Rehabilitation included:

Cured-in-place gravity sewer (700 linear feet)

2013 Reservoir B Pumping Station Replacement

In 2012-2013 construction of the new Reservoir B pump station was performed. As part of the construction, gravity pipe realignment was required. During construction it was noted that the sewer north of the station was exhibiting infiltration during pipe realignment. This section was removed and replaced as part of that project. (Approx 10 gpm)

2013 Sewer Rehabilitation in Various Areas Subareas 6, 11, 12, 14, 15, 26, 30

In 2013, Wright-Peirce designed sewer rehabilitation work in various subareas of Needham. An estimated 98,640 gpd of infiltration was removed as part of that project. Rehabilitation work included:

- Pipe Lining (2,900 linear feet)
- · Later Liners (30)
- Spot Repairs (3)
- Root Removal (850 linear feet)
- · Rehabilitation of a drop manhole

2014 Sewer Rehabilitation in Various Areas Subareas 11, 19-1, 20, 22, 26

In 2014, Wright-Peirce designed sewer rehabilitation work in various subareas of Needham. An estimated 14,320 gpd of infiltration will be removed as part of that project. The design was based off CCTV done under Phase II of BETA's Infiltration and Inflow Investigation. Rehabilitation work included:

- Pipe Lining (2,000 linear feet)
- · Later Liners (26)
- Spot Repairs (4)
- Root Removal (730 linear feet)

Section 3

Geographic Information System (GIS) and AutoCAD Updates

3.1 General

Geographic Information System (GIS) provides the Town with the ability to collect, display, and manage asset information throughout the community utilizing GIS software. BETA used TV inspection reports, previous I/I investigations, and previous sewer construction designs to updated the Town's existing GIS database. Updates include the inspection year, rehabilitation year and type of rehabilitation most recently performed for each manhole and sewer main reach. The GIS database was modified to adjust sewer manholes and pipes locations to their most up-to-date pipe alignments. Existing sewer subareas were adjusted and new subareas were created to reflect these sewer system updates.

Using the updated GIS, BETA developed a comprehensive map identifying locations with recent TV inspection, manhole inspection, and rehabilitation years. The map assisted in developing a strategy for the TV inspection program discussed in Section 10 of this report and can be used for future planning. The GIS databases should be updated regularly so that it can continue to be used as tool for future planning and investigation work.

3.2 TV Inspection and Rehabilitation Updates

As part of the GIS update effort, BETA reviewed TV inspection logs for sewer mains and manholes inspected between 1994 and 2014. The following projects were included in the GIS update:

- 1994 Sewer System Rehabilitation
- 1996 Sewer System Rehabilitation Washington Avenue Area
- 1997 Sewer System Rehabilitation Area 19-1
- 2000 Carol Road and Frank Street
- 2004 Areas 1,3, and 4 Phase II
- 2004 Route 128 Sewer Investigation
- 2005 Sewer System I/I Program Sewer and Manhole Inspection Program
- 2008 Route 128 Sewer Rehabilitation
- 2008 Infiltration/Inflow Rehabilitation Project 2,24, and Lower 21
- 2009 Sewer Infiltration Investigation for Sewer Subareas 16 and Lower 22
- 2009 Richardson Drive Investigation
- 2010 2011 Areas 16 & Lower 22 I/I Rehabilitation Phases 1, 2 and 3
- 2012 TV inspection and CIPP off of Reservoir St. Easement
- 2012 Miscellaneous I/I Sewer Rehabilitation Assessment Project
- 2013 Reservoir B Sewage Pumping Station Construction
- 2013 Sewer Rehabilitation in Various Areas
- 2014 Sewer Rehabilitation in Various Areas (Design only)

BETA updated the Town's GIS database by incorporating new fields into the Town's sewer main and sewer manhole shapefiles. New fields include:

Shapefile	Field Name	Description
	Year_TV	Year of latest known TV inspection prior to 2013
	Year_Rehab	Year of latest known rehabilitation work completed
Sewer_Main_2014_Update	Rehab_Type	Type of latest known rehabilitation work completed (TS, RS, HC, GR, CR, PR, CP, PB, LL, DR, RW)
	TV_Update	Year of latest known TV inspection through 2014
	Year_Inspect	Year of latest known manhole inspection
Sewer_Manhole_2014_Update	Year_Rehab	Year of latest known rehabilitation work completed
	Rehab_Type	Type of latest known rehabilitation work completed (SC, RG, RI, GR, DR)
MWRA_Sewer_Main	None	No new fields added
MWRA_Sewer_Manhole	None	No new fields added

BETA abbreviated rehabilitation methods under Rehab_Type fields in both the sewer main and sewer manhole update shapefiles. The following abbreviations were used:

Sewer_Main_2014_Update

- TS Test and Seal Sewer Main
- RS Replace Sewer Service
- HC Heavy Clean Sewer Main
- GR Grout Sewer Lateral
- PR Point Repair
- CP Cure-In-Place Pipe Repair
- PB Pipe Bursting
- · LL Line Sewer Lateral
- DR Dig and Replace Sewer Main
- RW Replace Wye Connection

Sewer_Manhole_2014_Update

- SC Seal and Coat Manhole
- RI Rebuild Invert
- GR Grout and Patch Manhole
- DR Dig and Replace Manhole
- RG Raise Frame and Cover to Grade

A town-wide comprehensive map identifying the most recent years of manhole and sewer investigation as well those reaches ,which have been previously rehabilitated based on this information, can be found in Appendix C.

3.3 Sewer Mains and Manholes Updates

BETA updated the GIS database to include available new sewer construction or realignment projects that were currently not included in the existing database. BETA populated fields to include known installation year as well as pipe material and diameter. As a result of these updates, BETA also created new shapefiles depicting abandoned force mains, gravity mains, and sewer manholes. New sewer construction and abandoned sewer utilites added to the database included:

- Richardson Drive
- Farley Pond Lane
- Route 128 realignment project (including realignment from Reservoir B Pump Station)
- Abandoned Force Main from Reservoir B Pump Station to Kendrick Street
- Abandoned Force Main from Kendrick Street Pump Station to Route 128
- Abandoned Force Main from Route 128 to Webster Street
- Abandoned Gravity Sewer along Route 128 from Reservoir Street to Hunting Road
- Abandoned Gravity Sewer on Highland Avenue from Sachem Road to Route 128
- Carol Road realignment
- · Abandoned Force Main from Great Plain Avenue Pump Station to Oak Street
- South Street (Farley Pond Lane to Stonecrest Drive)
- Stonecrest Drive
- Stonefield Drive
- Southwood Drive
- Marant Drive

Updated fields include:

Shapefile	Field Name	Description
	Year_Insta	Year sewer main was installed
	US_SMH	Upstream sewer manhole
	DS_SMH	Downstream sewer manhole
Sewer_Main_2014_Update	Material	Pipe material
	DIM1	Pipe diameter
	Street	Street main was installed on
	Туре	Designates pipe as force main or gravity main
Sewer_Manhole_2014_Update	Year_Insta	Year sewer manhole was installed
Abandoned_Sewer_Main_2014_Update	None	No new fields added
Abandoned_Sewer_Manhole_2014_Update	None	No new fields added

3.4 Temporary and Permanent Meter Locations

As part of the GIS update, BETA created shapefiles for past and present flow meter locations, including meter locations utilized by CDM in 1985 as part of the I/I Investigation. A second shapefile was created for BETA's 2013 Sewer Flow Meter locations. Both the 1985 and 2013 meter locations are depicted on the map in Appendix B. No additional fields were added within these shapefiles. A third shapefile was created for the flow meters installed as part of this Sewer Rehabilitation Program, as discussed in Section 9 – Long-Term Flow Monitoring. This shapefile includes a field that defines the meters as temporary or permanent whose locations are depicted on the map in Appendix J.

3.5 Sewer Subarea Boundaries Updates

Existing sewer subarea boundaries were created during the 1985 I/I Investigation for the purposed of flow gauging. Since then, numerous changes have been made to the Town of Needham's sewer system. BETA has updated the sewer system subarea boundaries within the Town's existing GIS database to account for these changes. BETA has also adjusted boundary limits to better isolate flows in each subarea. The following changes were made to the Town's existing sewer subareas boundaries:

Subarea 7

Based on sewer records, the boundaries of Subarea 7 were increased to include flow from Grove Street and Charles River Street.

Subarea 25

The boundaries of Subarea 25 were increased to include southern flow leaving the original boundaries of the subarea, ending prior to Reservoir B Pump Station.

Subarea 26

Boundary limits were adjusted to reflect sewer construction on Richardson Drive. Subarea 26 was reduced because the sewer from Richardson Drive no longer outlets in Subarea 26.

Subarea 27

Based on sewer records and direction of gravity flow, the boundaries of sewer subarea 27 were reduced to only include sewer mains that flowed through the outlet of subarea 27. As a result, this increased the boundaries of Subarea 15.

Subarea 29

Boundary limits of Subarea 29 were reduced to isolate flows in Subarea 29. Sewer mains on Hasenfus Circle, Glen Cary Road, McCulloch Street, and Castle Place were removed from within the boundary of Subarea 29. As a result, the boundaries of Subarea 13 were increased to include these sewer mains.

Subarea 30

Boundary limits were adjusted to reflect new sewer construction. The original subarea boundaries included portions of sewer on Farley Pond Lane and Stonecrest Drive. BETA reduced the size of the subarea because the sewer main on those roads does not outlet in Subarea 30 as currently mapped.

Subarea 33

Subarea 33 was created to account for new sewer construction. This subarea encompasses sewer mains on Aldridge Road, Farley Pond Lane, Stonecrest Drive, Southwood Lane, and Richardson Drive.

3.6 Using GIS Updates to Select TV Inspection Locations

As part of the second phase of the infiltration and inflow investigation, a Town-wide TV inspection program was developed. 2013 flow meter data was used to identify suspect high infiltration sewer subareas. BETA used the GIS database to look at the age of sewer mains as well as the latest known rehab and TV inspection years to help narrow down areas to investigate. Reaches that were installed, rehabilitated, or inspected after 2005 were eliminate from the program. Reaches in suspected subareas and not installed, rehabilitated, or inspected after 2005 were selected for TV inspection.

3.7 Ongoing GIS Updates

It is important the sewer databases be kept up-to-date with the latest sewer improvements. The comprehensive collection of sewer information can be used to identify and prioritize projects throughout the Town including future I/I investigation work.

3.8 AutoCAD Formatting

Updated sewer main, sewer manhole, and sewer subarea GIS shapefiles were exported from ArcGIS into AutoCAD® 2014. All of the shapefiles' fields, including existing and added fields, were imported into AutoCAD format. This allows pipe and manhole GIS data to be viewed under each line or block's properties. The updated sewer AutoCAD® 2014 drawing file is included on the DVD in Appendix M.

3.9 Deliverables

As part of this report, a DVD is included in Appendix M containing updated GIS shapefiles and AutoCAD format. Files include:

GIS Shapefiles

Sewer_Main_2014_Update
Sewer_Manhole_2014_Update
Sewer_Subareas_2014_Update
Abandoned_Sewer_Main_2014_Update
Abandoned_Sewer_Manhole_2014_Update

AutoCAD 2014

Needham Sewer Map 2014.dwg (Contains sewer main, sewer manholes, and sewer subareas)

Section 4

Rain Gauging and Groundwater Monitoring

4.1 Rain Gauging

4.1.1 General

Rain gauging was used to gather and measure rainfall during the spring 2013 flow monitoring period. In this investigation, a temporary rain gauge was installed at the Great Plain Avenue Pump Station. The gauge was monitored weekly over the 12 week study period and rainfall amounts, recorded in inches, were taken every 15 minutes. Rainfall gauging was conducted to correlate rainfall intensity to inflow volumes and facilitated projection to a standard 1- year/6-hour storm event. The water treatment plant rainfall gauge was also used to correlate data from 6/27/13 through the completion of this evaluation.

4.1.2 Results

During the 12 week study period, the Great Plain Avenue rain gauge measured a total of 15.8 inches. Daily rain gauge data recorded in 15-minute intervals is included in Appendix D. A rainfall summary including total rain, peak hourly rain, and peak 15-minute rainfall for each day is also located in Appendix D. Table 4-1 summarizes weekly rainfall amounts during the study period.

Table 4-1: Weekly Rainfall Amounts

Datas	Rainfall Amount
Dates	(inches)
3/18/2013 to 3/24/2013	0
3/25/2013 to 3/31/2013	0.01
4/01/2013 to 4/07/2013	0.15
4/08/2013 to 4/14/2013	0.98
4/15/2013 to 4/21/2013	0.59
4/22/2013 to 4/28/2013	0.23
4/29/2013 to 5/05/2013	0
5/06/2013 to 5/12/2013	0.90
5/13/2013 to 5/19/2013	0.12
5/20/2013 to 5/26/2013	1.75
5/27/2013 to 6/02/2013	1.06
6/03/2013 to 6/09/2013	4.40
6/10/2013 to 6/16/2013	4.09
6/17/2013 to 6/23/2013	1.51
6/24/2013 to 6/27/2013	0.06

A rainfall hyetograph for the entire study period is shown in Figure 4-1 below.

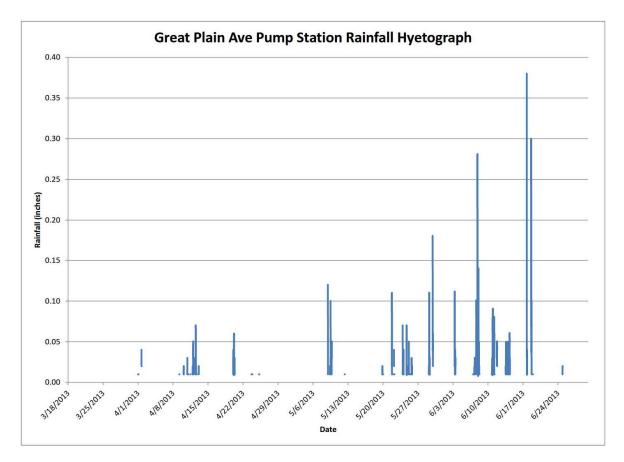


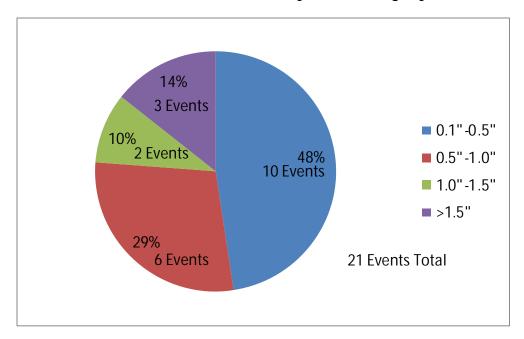
Figure 4-1: Great Plain Ave Pump Station Rainfall Hyetograph

A total of 21 rain events were recorded during the 12 week study period. For purposes of this analysis, a rain event was considered a continuous period of precipitation totaling a minimum of 0.1-inches. Three large rain events occurred in the month of June with rainfalls totals over 1.5-inches. Figure 4-2 statistically breaks down the storm events and illustrates the distribution by number of events per size category and contribution to rainfall totals per size category. The distribution illustrated in these pie charts generally shows that while over 75 percent of the storms recorded deposited less than 1.0-inches of rain, 50 percent of the total rainfall (and hence runoff) came from the three large events that were an anomaly based on historical trends as discussed in the follow section.

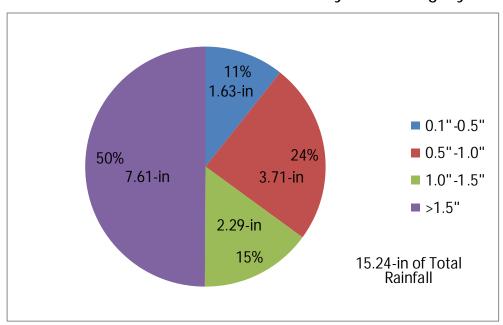
4.1.3 Historic Rain Gauging

Historic rain data from the permanent rain gauge at the Charles River Street Water Treatment Plant was also analyzed during this investigation. This data was used to help determine a baseline of rainfall amounts and flow rates within the past 5 years and provide a comparison to average rainfall amounts over the past 10 years. Rainfall data from this gauge was recorded once per day. Daily historic rain data from January 2009 to the end of this study period is located in Appendix D. Monthly rainfall amounts during this time period are shown in Table 4-2 below.

Rain Event Distribution by Size Category



Contribution to Rainfall Totals by Size Category



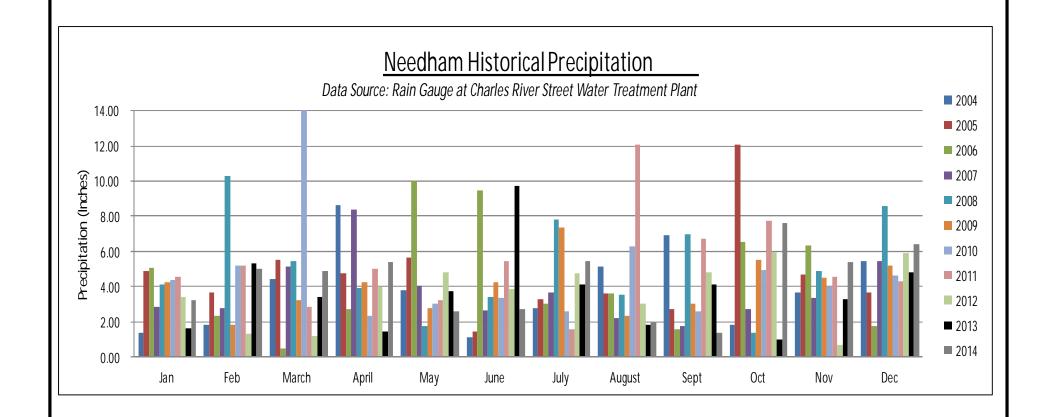




Table 4-2: Monthly Historic Rainfall Amounts

					R	ainfall <i>i</i>	Amoun	t (inche	s)				
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
2009	4.25	1.79	3.20	4.22	2.79	4.25	7.37	2.36	3.04	5.52	4.48	5.19	48.46
2010	4.38	5.20	14.33	2.33	3.03	3.33	2.57	6.25	2.56	4.91	3.97	4.62	57.48
2011	4.58	5.21	2.85	4.99	3.23	5.44	1.56	12.06	6.75	7.71	4.58	4.30	63.26
2012	3.42	1.30	1.18	4.00	4.82	3.85	4.72	3.03	4.81	5.94	0.67	5.91	43.65
2013	1.60	5.29	3.44	1.42	3.73	9.70	4.08	1.79	4.08	1.00	3.26	4.82	44.21
2014	3.24	4.99	4.89	5.36	2.58	2.68	5.47	1.95	1.40	7.62	5.36	6.38	51.92
Avg	3.58	3.96	4.98	3.72	3.36	4.88	4.30	4.57	3.77	5.45	3.72	5.20	51.50

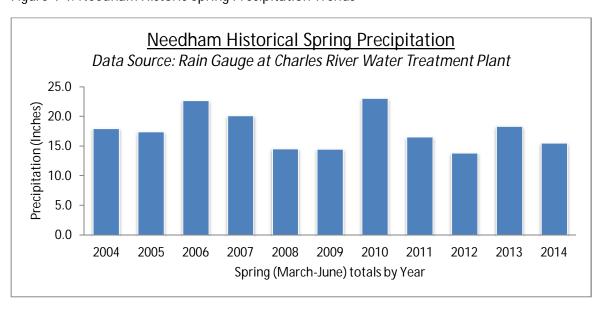
Data Source: Rain Gauge at Charles River Water Treatment Plant

As seen in Table 4-2, rainfall amounts in May 2013 were similar to previous years. April's rainfall amounts in 2013 were fewer than previous years and rainfall amounts in June 2013 were considerably higher than previous years. With the exception of 2010, the rainfall amounts for March 2013 are similar to previous years.

Figure 4-3 presents a visual comparison of precipitation recorded each month in Needham and where rainfall amounts gauged in 2013 compare to seasonal trends seen over the past 10 years.

Figure 4-4 below presents a visual comparison of precipitation totals recorded for the spring (March-June) of each year over the past 10 years. As shown, the spring of 2013 was average compared to previous years.

Figure 4-4: Needham Historic Spring Precipitation Trends



4.1.4 Ongoing Rain Gauging

BETA continues to obtain rainfall data from the permanent rain gauge at the Charles River Street Water Treatment Plant. Daily rainfall totals recorded at the Treatment Plant are provided to BETA at the end of each month. This data can continue to be compared to ongoing flow data from the 10 permanent and 2 portable flow meters and the MWRA meters for future I/I analysis.

4.2 Groundwater Monitoring

4.2.1 General

The purpose of groundwater monitoring was to obtain current groundwater data throughout the studied sewer subareas. By measuring groundwater level in inches above the invert of the pipe, a correlation between groundwater elevations and infiltration may be made.

Infiltration rates are dependent on groundwater table elevation as well as on rainfall permeation through soil. Infiltration is a steady 24-hour flow that usually varies during the year in relation to the groundwater levels above the sewer. Infiltration is a function of groundwater head above the sewer pipe, therefore, most sources of infiltration are impacted by changes in groundwater levels. The higher the groundwater table rises above the sewer, the more infiltration will enter the system through defects. Storm-induced infiltration can occur following wet weather when stormwater and/or snowmelt infiltrating into the ground either raises the groundwater table or makes its way into the sewer while permeating the surrounding soil.

4.2.2 Groundwater Monitoring Locations

BETA utilized four groundwater gauges during the study period. Table 4-3 shows the location of each. The groundwater gauges were installed and maintained by EST Associates, Inc. Locations were chosen based on previous gauging locations where the 1989 I/I Investigation report identified that groundwater was successfully detected.

Table 4-3: Monitoring Locations

Subarea	SMH Number	Location	Elevation (feet)
12	S15-060	276 West Street	89.10
14	S05-108	Crawford Street Easement	95.32
21	S52-111	215 Valley Road	96.68
23	S51-035	South Street and Dedham Avenue	97.23

Groundwater data was collected for twelve weeks from March 28 to June 27, 2013. Data collected by each gauge was reported in inches. During the study period, the gauges were checked weekly to ensure they were operating properly. At that time, measurements indicating depth of groundwater above invert were taken.

Groundwater level was important for relating metered flow rates to infiltration and inflow. Metered data during and immediately following a storm event should be compared to flow

meter data during a selected dry weather period with a similar groundwater condition. Similar groundwater conditions are assumed to contribute the same infiltration volume, therefore allowing for the estimation of inflow.

4.2.3 Groundwater Depth Results

Table 4-4 shows the recorded groundwater elevations above the pipe inverts at each gauging location.

Table 4-4: Groundwater Elevations

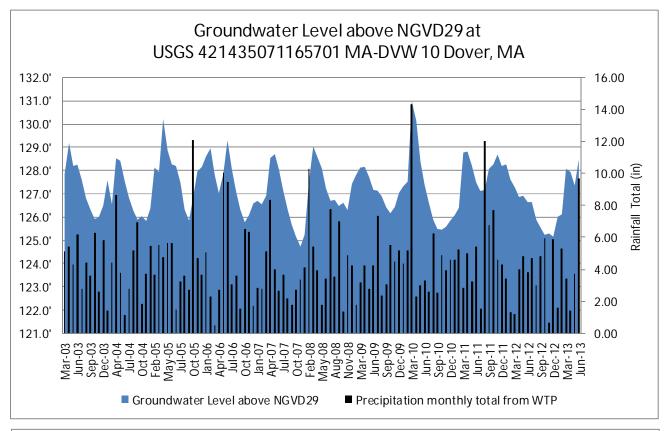
Date Monitored		Groundwater Eleva	ation Above Invert	(in)
Date Monitored	Subarea 12	Subarea 14	Subarea 21	Subarea 23
3/28/13	28.5	Dry	Dry	Dry
4/03/13	26.0	Dry	Dry	Dry
4/10/13	27.0	Dry	Dry	Dry
4/17/13	24.5	Dry	Dry	Dry
4/24/13	24.25	Dry	Dry	Dry
4/30/13	24.0	Dry	Dry	Dry
5/08/13	29.5	Dry	Dry	Dry
5/15/13	28.5	Dry	Dry	Dry
5/22/13	23.75	Dry	Dry	Dry
5/29/13	23.25	Dry	Dry	Dry
6/05/13	24.0	Dry	Dry	Dry
6/12/13	34.5	Dry	Dry	Dry
6/27/13	29.5	Dry	Dry	Dry

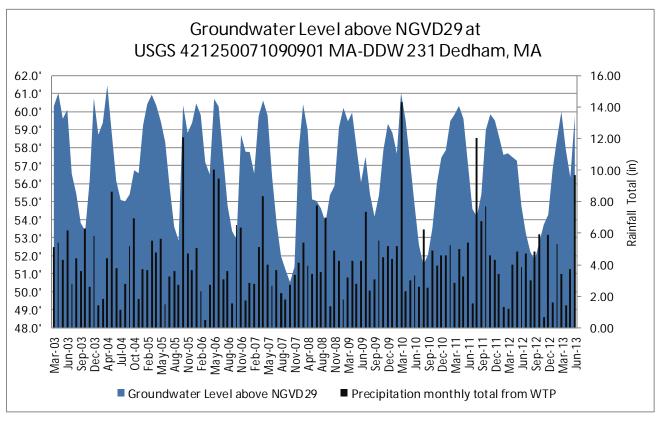
4.2.4 Findings

Lack of groundwater readings in Subareas 14, 21, and 23 indicates that groundwater levels may have been relatively low during the entire study period in those subareas. Therefore, there was no groundwater evidence to drive infiltration into the pipes at those points. Groundwater gauge results did not provide adequate information to be used as a tool for further analysis of inflow. As an alternative to the groundwater gauges, nearby USGS monitoring locations were analyzed for comparison.

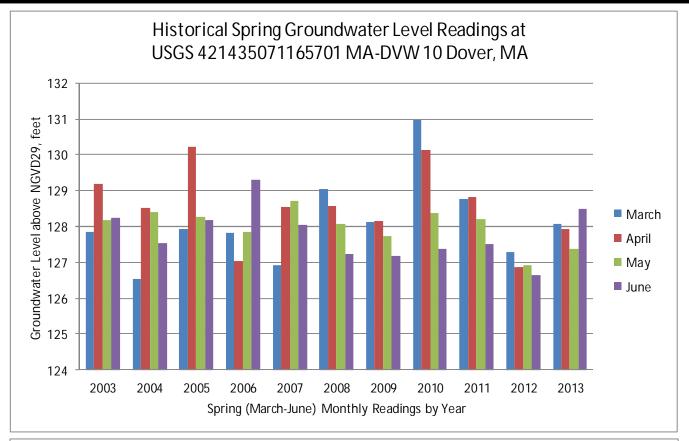
4.2.5 Historic Groundwater Elevations

Historically, spring (March-May) is the period of highest groundwater dues to peak seasonal rainfall, which taper off in June. USGS takes monthly readings at wells in two neighboring towns, Dover and Dedham. Figure 4-5 shows the USGS groundwater levels recorded in Dover and Dedham each month over the past 10 years with corresponding monthly precipitation totals to compare seasonal trends and to see how groundwater levels in 2013 compared to previous years. This Figure shows the seasonal trend of highest groundwater readings in March tapering off into May and June. In Dover, maximum groundwater level was 131.0' in March 2010 and minimum level was 124.7' in November 2007 indicating a groundwater range of 6.3' and average groundwater level of 127.2' over the past 10 years. In Dedham, maximum groundwater









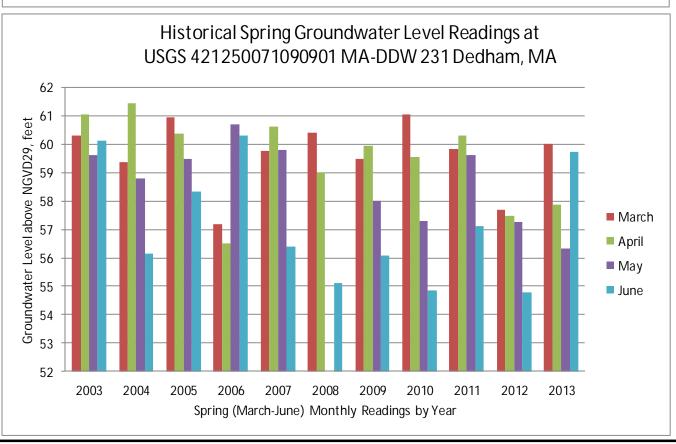




FIGURE 4-6

USGS Historical Spring Groundwater Readings (March 2003-March 2013) level was 61.5' in April 2004 and minimum level was 50.5' in October 2007 indicating a groundwater level range of 11' and average groundwater level of 57.0' over the past 10 years. Figure 4-6 shows groundwater levels in Dover and Dedham in spring (March-June) of each year over the past 10 years and Table 4-5 and 4-6 compare groundwater levels in spring of 2013 to monthly averages over the past 10 years. As shown, March 2013 was average compared to previous years, April and May groundwater levels were below average by as much as 2.3' in Dedham and June levels were above average by as much as 2.6' in Dedham. When looking at the 4-month combined spring average, spring 2013 average groundwater level was typical compared to the past 10 year average.

Table 4-5: Spring 2013 vs. 10-yr Average Groundwater Level – Dover, MA

	2013 Groundwater Level	Average Groundwater Level	2013 Variation from Average
March	60.0'	59.6'	0.4'
April	57.9'	59.5'	-1.6'
May	56.3'	58.7'	-2.3'
June	59.7'	57.2'	2.6'
Spring Average	58.5'	58.7'	-0.3'

Table 4-6: Spring 2013 vs. 10-yr Average Groundwater Level – Dedham, MA

	2013 Groundwater Level	Average Groundwater Level	2013 Variation from Average
March	128.1'	128.1'	-0.1'
April	127.9'	128.5'	-0.6'
May	127.4'	128.0'	-0.6'
June	128.5'	127.8'	0.7'
Spring Average	128.0'	128.1'	-0.2'

Section 5

Spring 2013 Flow Monitoring Program

5.1 Town of Needham Flow Monitoring Program

5.1.1 General

The goal of continuous flow monitoring is to obtain infiltration information on selected tributary areas during high groundwater periods and identify groundwater elevation and rainfall generated inflow during wet weather periods. The Department of Environmental Protection (DEP) recommends continuous flow metering for a minimum of ten consecutive weeks between March 1 and June 30. Typically this time period will capture wet and dry periods and periods of high and low infiltration.

Between 1984 and 1985, a two phase flow gauging program was conducted as a part of an Infiltration/Inflow program. At that time the Town's sewer system was divided into 32 study sub-areas. Fourteen of these areas were gauged continuously under Phase I of the program, nine were flow isolated under Phase II of the program and two were gauged under both Phases. Gauging was performed from April 18 through June 15, 1984. This data was used as a comparison to new data as well as a guide for this program, including placement of temporary flow meters.

5.1.2 Metering Locations

Each sewer subarea was examined to determine the best location for meters to pinpoint excessive I/I. BETA utilized 25 temporary flow meters during the 12 week study period from the end of March to the end of June 2013. Table 5-1 shows the installation location of each meter. Each meter recorded data every fifteen minutes for 24 hours a day during the study period.

Table 5-1: Flow Metering Locations

Flow Meter No.	SMH No.	Location	Subarea	Installation Date
5	S55-010	176 Whitman Road	5	4/10/13
10	S64-002	19 Russel Road	10	3/18/13
11	S29-003	1394 Great Plain Avenue	11	3/20/13
12	S15-060	276 West Street	12	3/20/13
13	S15-092	Hillside Middle School	13	3/21/13
14	S05-108	Crawford Street Easement	14	3/21/13
15	S15-070	Tillotson Road Easement	15	3/20/13
16	S40-044	92 Lincoln Street	16	3/20/13
17	S11-028	A Street and First Avenue	17	3/20/13
19-1	S39-121	14 Maple Place	19-1	3/21/13
19-2	S39-124	66 Maple Street	19-2	3/20/13
20	S40-113	266 Dedham Avenue	20	3/20/13
21	S52-111	215 Valley Road	21	3/21/13

Flow Meter No.	SMH No.	Location	Subarea	Installation Date
22	S41-054	Prince Street and Cook Street	22	3/18/13
23	S51-035	South Street and Dedham Ave	23	3/20/13
24	S52-086	146 Great Plain Avenue	24	3/20/13
25	S05-104	Reservoir Street Easement	25	3/21/13 (Removed 4/10/13)
26	At house #47	Southwood Lane	33	3/18/13
27	S29-008	16 Abbott Street	27	3/21/13
28	S29-007	1347 Great Plain Avenue	28	3/20/13
29	S15-074	245 West Street	29	3/20/13
30	S59-047	69 Wildwood Drive	30	3/18/13
31	S59-044	30 Wildwood Drive	31	3/18/13
32	S05-109	292 Reservoir Street	32	3/21/13
26 Howland 20"	\$50-098	30 Howland Street	26	3/18/13
26 Howland 30"	S50-107	30 Howland Street	26	3/18/13

Flow meters were installed, maintained, and calibrated during the study period by EST Associates, Inc. of Needham, MA. Meters were calibrated weekly during the study period to ensure accurate information. Data including water level, velocity, and flow was downloaded at that time.

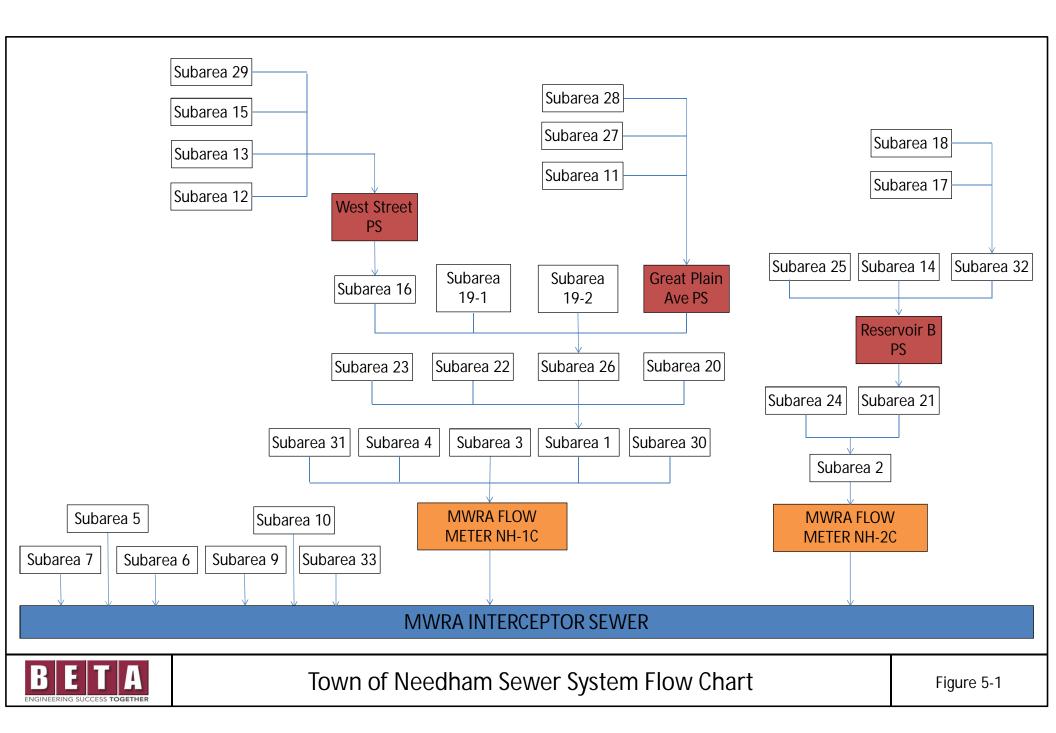
In part, meter locations were chosen to isolate flow from each sewer subarea. However, this was not possible for all subareas as some subareas received flow from other tributary subareas. A sewer system flow chart diagramming subareas and their tributaries is shown in Figure 5-1. Table 5-2 summarizes subareas with tributary flows.

Table 5-2: Tributary Subareas

Subarea	Tributaries
32	17, 18
21	14, 25, 32, 17, 18
2	24, 21, 14, 25, 32, 17, 18
16	12, 13, 15, 29
26	19-1, 19-2, 11, 27, 28, 16, 12, 13, 15, 29
1	20, 22, 23, 26, 19-1, 19-2, 11, 27, 28, 16, 12, 13, 15, 29

5.1.3 Metering Installation and Maintenance

All flow meters, except Meter 5, were installed at the locations specified in Table 5-1 on March 18th, 20th, and 21st. Meter 25 on Reservoir Street was removed on April 10th due to manhole surcharging leading to inaccurate readings. Upon removal, it was relocated to Whitman Road in Subarea 5 and relabeled Meter 5. The following meters recorded problems during the study period:



Meter 5

For the first few weeks after installation on April 10, minor ragging was an issue. On April 24, major ragging was removed from the meter's sensor. Following this, water level decreased by 0.5 inches.

Meter 13

Incidents of heavy ragging occurred and the sensor was cleaned on April 17, 24, and 30 as well as May 29. After the sensor was cleaned, meter readings registered or increased.

Meter 17

During periods of low flow, velocity readings dropped out at night. Instances of heavy ragging during maintenance checks also occurred.

Meter 19-1

Prior to meter installation, the manhole was surcharged above the top of the pipe. The line was cleaned to allow installation however, after installation, the manhole continued to display instances of surcharging. Weeks 2-4 had surcharging of 15 inches or more and on June 16 the manhole exhibited surcharging of three feet.

Meter 19-2

Periods of minor ragging occurred on the sensor.

Meter 20

On April 3, the meter was reading water level at 3.48 inches and the actual level was 3.0 inches. The sensor was cleaned and the level was calibrated accordingly on that date.

Meter 21

On March 27, the meter was reading water level at 9.43 inches and the actual level was 10.5 inches. The sensor was cleaned and the level was calibrated accordingly on that date. On May 29 minor ragging was removed from the sensor. This increased the level from 9.4 inches to 9.8 inches and velocity from 1.9 fps to 2.5 fps.

Meter 24

On April 24 the level was adjusted from 2.77 inches to 2.22 inches.

Meter 25

Meter 25 was installed on March 21. The manhole was consistently surcharged and the meter was removed on April 10. The majority of velocity and level readings recorded during that time frame were zero.

Meter 27

A buildup of silt was observed around the sensor on May 15. The silt was cleared out and the sensor was offset 0.5 inches to avoid future issues. Following offset, velocity increased from 0.44 fps to 0.9 fps.

Meter 29

On April 10, due to ragging buildup on the sensor, the level was adjusted from 1.57 inches to 2.2 inches.

Meter 32

The manhole was consistently surcharged throughout the study period. Extra maintenance was performed during the first three weeks to insure the sensor was clear of heavy grease present in the flow. Large level adjustments were made during the study period and a very inconsistent velocity due to surcharging was recorded.

All flow meters, excluding Meter 25, were removed on June 26 and 27, 2013. As stated previously, Meter 25 was removed on April 10, 2013 due to manhole surcharging.

5.1.4 Monitoring Results

Graphs of flow vs. time including rainfall amounts for the entire study period for each flow meter can be found in Appendix E. Figure 5-2 below is an example of these graphs for Subarea 11.

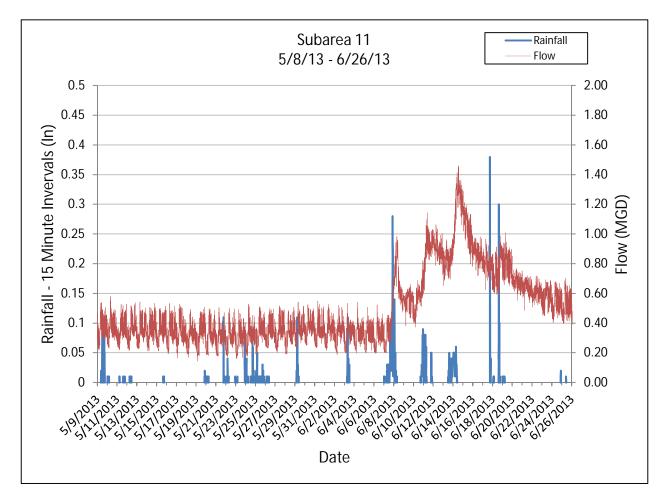


Figure 5-2: Example of Flow vs. Time Graphs

A summary of daily flow information including minimum flow rate, peak flow rate, and total daily flow for each meter is located on the DVD included with this report. All recorded flow data is also included on the DVD.

I/I analysis related to this flow data and comparison to the 1985 I/I investigation monitoring results are discussed in Sections 7 and 8 of this report. Table 5-3 provides a summary of the recorded flow over the entire study period at each flow metering location.

Some of the meters exhibited anomalies during the study period. Associated flow rates for any anomalies were included in the overall meter data, but were not included in the analysis, so that data was not skewed unnecessarily.

Table 5-3: Summary of Observed Flow at Meter Locations

Flow Meter	Maximum Flow (gpm)	Time of Maximum Flow	Minimum Flow (gpm)	Time of Minimum Flow	Min. Flow to Max Flow Ratio	Average Flow (gpm)	Peaking Factor
5	4,342.81	6/23/13 11:45 AM	0.15	4/22/13 4:45 AM	3.52x10 ⁻⁵	861.21	5.04
11	1,013.21	6/14/13 1:15 PM	98.70	5/19/13 4:00 AM	0.097	371.61	2.73
12	222.97	6/20/13 7:45 AM	94.45	5/26/13 4:00 AM	0.42	106.25	2.10
13*	281.97	3/21/13 8:00 AM	4.00	6/1/13 6:00 AM	0.014	60.46	4.66
14	619.24	3/22/13 2:30 AM	86.94	5/19/13 4:15 AM	0.14	285.12	2.17
15	259.67	6/7/13 9:45 PM	28.10	5/2/13 2:30 AM	0.11	63.68	4.08
16*	2,760.13	6/14/13 9:00 AM	128.40	3/20/13 11:45 AM	0.047	1,283.86	2.15
17	167.53	6/21/13 8:00 AM	8.67	6/7/13 2:30 AM	0.052	61.22	2.74
19-1	688.57	6/14/13 4:15 PM	56.47	5/23/13 4:30 AM	0.082	214.97	3.20
19-2*	117.33	3/28/13 7:15 AM	0.39	3/26/13 2:15 AM	0.0033	21.26	5.52
20	591.96	4/1/13 7:15 AM	31.62	5/19/13 4:45 AM	0.053	252.28	2.35
21	3,089.37	6/14/13 3:45 PM	451.50	3/22/13 1:45 PM	0.15	1,334.31	2.32
22	1,518.57	6/14/13 9:45 AM	239.86	5/22/13 4:45 AM	0.16	509.36	2.98
23*	325.10	6/14/13 11:15 AM	4.19	4/22/13 3:30 AM	0.013	80.08	4.06
24*	501.19	6/14/13 11:45 AM	7.23	4/4/13 2:45 AM	0.014	106.96	4.69
26*	200.20	6/14/13 4:00 PM	1.69	5/22/13 12:45 AM	0.0084	22.70	8.82
26 Howland 20"	1,382.21	6/14/13 7:45 AM	130.24	5/4/13 4:00 AM	0.094	446.53	3.10
26 Howland 30"	4,342.81	6/23/13 11:45 AM	146.79	5/29/13 4:00 AM	0.034	1,192.36	3.64
27*	152.89	6/14/13 7:15 AM	3.37	4/18/13 10:45 PM	0.022	47.12	3.24

Flow Meter	Maximum Flow (gpm)	Time of Maximum Flow	Minimum Flow (gpm)	Time of Minimum Flow	Min. Flow to Max Flow Ratio	Average Flow (gpm)	Peaking Factor
28*	126.89	6/14/13 6:00 AM	0.22	6/6/13 4:45 AM	0.0017	14.92	8.50
29	209.89	6/9/13 12:00 PM	3.64	4/10/13 4:45 AM	0.017	60.24	3.48
30	234.74	6/14/13 11:00 AM	16.02	6/7/13 5:15 AM	0.068	71.86	3.27
32	700.02	6/18/13 5:15 PM	95.75	6/7/13 5:15 PM	0.14	346.28	2.02

^{*}Adjusted for meter anomalies

Meters 13, 16, 19-2, 23, 24, 26, 27, and 28 recorded negative flows at least one day, but not more than 11 days during the study period. In each case, this data was included in the overall meter flow charts; however, these anomalies were not included in infiltration and inflow calculations.

Recorded flow from meter 16 accounted for 80% of flow from the downstream Subarea 26 and 60% of flow from MWRA NH-1C. When isolating and calculating flow from Subarea 26, resulting flows were negative. This is believed to be a result of erroneous measurements from meter 16. Therefore, flow from Subarea 26 was calculated without using flow data from Subarea 16. To estimate flow rates for Subarea 26, we took the raw meter data from that subarea and divided that number by the total inch miles of all upstream subarea flows entering Subarea 26.

I/I flow rates for each subarea, calculated using Spring 2013 flow data, were used to determine which subareas to install permanent and portable meters for long-term flow monitoring. These subareas and meter locations are identified in Section 9 – Long-Term Flow Monitoring of this report.

5.2 Nighttime Instantaneous Flow Measurements

Nighttime flow monitoring is conducted to quantify the amount of infiltration entering the sewer system. EST Associates Inc. completed nighttime instantaneous flow measurements during dry weather and high groundwater to eliminate influences from rain-related inflow.

Nighttime flow monitoring was performed in subareas 3, 4, 6, 9, 25, and 27 on June 19, 2013. It was determined to be more cost beneficial to perform nighttime instantaneous flow measurements rather than flow metering in these subareas due to their smaller size. In addition, if evidence of infiltration was found, it would be easier to determine sources of infiltration in smaller subareas. Measurements were conducted during low flow periods using portable weirs. Table 5-4 shows flow monitoring locations and results.

Table 5-4: Nighttime Flow Monitoring Locations

Location	Time	Pipe Size (inches)	Average Flow Rate (GPD)
Subarea 3	1:25 AM	8	30,166
Subarea 4	1:10 AM	8	43,345
Subarea 6	12:25 AM	12	53,550
Subarea 9	12:45 AM	6	1,687
Subarea 25	11:45 PM	12	14,230
Subarea 27	12:10 AM	8	30,080

Because flow monitoring was conducted at night, the average flow rate is also considered to be an estimation of infiltration rate for these subareas. During these late night periods, it is assumed flow is infiltration and typically minimal sanitary flow occurs.

Section 6 Infiltration Analysis

6.1 General

Infiltration is defined as water, other than wastewater, that enters a sewer system from the ground through means which include defective pipes, pipe joints, connections, pump stations, or manholes. Infiltration quantity is generally higher in the early spring after snow melt and/or soil thaw when groundwater elevations are high. Infiltration quantity is generally lower in summer after a prolonged period of minimal rainfall. Study was conducted from late March to the end of June 2013 with 25 meters. BETA continued monitoring 10 permanent and 2 portable meters throughout the TV inspection periods discussed in Section 9.

Infiltration analysis was conducted according to the Department of Environmental Protection (DEP) "Guidelines for Performing Infiltration/Inflow Analyses and Sewer System Evaluation Survey" revised January, 1993.

6.2 Infiltration Analysis Procedure

To determine infiltration rates, flow monitoring data was examined to identify periods of dry weather during high and low groundwater periods. Dry weather periods were selected for analysis to reduce the influence of rainfall related infiltration. For all meters, except Meter 5, the high groundwater period considered was March 22 to March 29, 2013 and the low groundwater period considered was May 1 to May 8, 2013. During these periods, nighttime minimum flows were analyzed to estimate average, minimum and peak infiltration rates. BETA assumed minimal sanitary flow occurred at night, between the hours of 12:00 AM and 6:00 AM, and as such minimum nighttime flows were primarily infiltration. Meter 5 was installed after the high groundwater period. BETA selected dates immediately following installation of Meter 5, April 11 to April, 18 as high groundwater.

Peak infiltration was quantified by taking the average of minimum nighttime flows during the high groundwater period. Minimum infiltration was quantified by taking the average of minimum nighttime flows during the low groundwater period. Annual average infiltration flow was estimated by calculating a weighted average of peak infiltration and minimum infiltration.

To determine infiltration flow rates and compare subareas of varying sewer lengths and diameters, infiltration flows are divided by the length of sewers in miles multiplied by the diameter of the pipes to get an infiltration flow rate in gallons per day per inch-mile (gpd/in-mi). For all subareas, except Subarea 26, upstream flows were subtracted from downstream subarea meter flows as necessary to isolate flows for individual subareas.

In the case of Subarea 26 the net flow calculated, and as a result net infiltration, was less than the total incoming flow. Further analysis indicated that flow from Subarea 26 is negative. This

discrepancy occurred throughout the entire metering season and no definitive reason for this discrepancy could be ascertained. However, flow recorded from Subarea 16 accounted for approximately 80% of the overall flow measured from Subarea 26 during the study period and approximately 60% of the overall flow measured from MWRA meter NH-1C during the study period. After reviewing metering results and MWRA data, it is believed the flow meter data collected from Subarea 16 is erroneous. Since it was not possible to accurately isolate the infiltration rates between Subarea 26 and Subarea 16, the two subareas were combined for the purposes of identifying an infiltration flow rate.

Since Subarea 18 did not have its own flow meter, it was not possible to accurately isolate the infiltration rates between Subarea 32 and Subarea 18. Therefore, similar to Subareas 16 and 26 mentioned above, these two subareas were combined and monitored as one subarea for the purpose of identifying an infiltration flow rate.

Flow rates from Subarea 25 were interpolated due to incomplete data. The flow meter for Subarea 25 was installed on March 21 and removed on April 10, 2013 due to surcharging. During that time period, the only consistent non-zero readings occurred on April 3 and April 4, 2013 during daytime flow. Instantaneous flow readings were also recorded at night during the high groundwater period. Peak infiltration rates were calculated directly from instantaneous flow measurements. Using this data and best engineering judgment, results were interpolated for Subarea 25 during the study period.

Subareas 3, 4, 6, 9, and 27 were not metered, but instantaneous nighttime flow readings were taken on June 19, 2013. Peak infiltration rates were calculated based on these readings.

6.3 Infiltration Results

Infiltration flow rates for all subareas studied are found in Table 6-1.

Table 6-1: Peak, Minimum, and Average Infiltration Flow Rates

Cubaraa	Peak Infiltration Flow	Minimum Infiltration	Average Infiltration
Subarea	Rate (GPD/in-mi)	Flow Rate (GPD/in-mi)	Flow Rate (GPD/in-mi)
3*	6,000	-	-
4*	16,200	-	-
5	300	100	200
6*	8,100	-	-
9*	1,800	-	-
10	2,100	1,100	1,600
11	8,100	3,500	5,800
12	2,600	2,300	2,400
13	1,600	400	1,000
14	8,500	2,600	5,600
15	1,200	200	700
17	4,600	1,000	2,800
19-1	5,500	2,100	3,800
19-2	200	400	300
20	6,600	1,500	4,000
21	5,100	4,100	4,700
22	6,200	3,800	5,000
23	2,800	500	1,700
24	2,200	900	1,600
25**	700	-	-
26 & 16	2,400	1,000	1,700
27	6,000	1,600	3,800
28	1,700	300	1,000
29	3,800	3,200	3,500
30	4,200	2,800	3,500
31	3,600	900	2,300
32 & 18	7,000	4,100	5,600
33	1,600	1,000	1,300

^{*}Instantaneous Measurements

Subarea 4 exhibited the highest infiltration rate, 16,200 gpd/in-mi. 14 subareas, including subarea 4, had a peak infiltration greater than 4,000 gpd/in-mi. Based on DEP Guidelines, an infiltration rate greater than 4,000 gpd/idm is considered to be excessive and should be recommended for internal TV inspection.

^{**}Interpolated

Table 6-2 ranks the subareas with a peak infiltration rate of greater than 4,000 gpd/in-mi from highest to lowest. Specific areas recommended for additional inspection are discussed in Section 10.

C. d	Peak Infiltration Flow	Inch-Miles of		
Subarea	Rate (gpd/in-mi)	Sewer Pipe		
4*	16,200	2.68		
14	8,500	66.82		
11	8,100	69.19		
6*	8,100	6.61		
32 & 18	7,000	46.50		
20	6,600	49.75		
22	6,200	106.49		
27	6,000	10.23		
3	6,000	5.06		
19-1	5,500	54.07		
21	5,100	108.04		
17	4,600	24.10		
30	4,200	13.47		

Table 6-2: Subareas with Excessive Infiltration

6.4 MWRA Historic Infiltration

BETA obtained historic flow metering data from the MWRA for both of their meters in Town during the 12 week study period as well as for the past five years, 2009 thru 2013, to compare and analyze this year's flows and infiltration to past years. Details and results of this analysis can be found in Section 8.

A summary of infiltration and inflow findings, from this investigation, compared to CDM's 1985 findings is shown in Table 6-3. Total Peak Infiltration Volume corrected for a 1.7" storm for the combined subareas in 1985 is estimated at 5.88 mgd; however, as shown in the table, infiltration was not calculated for all subareas in the 1985 study so this total cannot be directly compared to the 2013 total inflow volume. Table 6-4 shows the change in infiltration volume between subareas where data was collected in both 2013 and 1985. Included on the table are I/I rehabilitation projects that have been performed between 1985 and 2014. They have been highlighted according to the type of rehabilitation performed.

^{*}Instantaneous Flow

Table 6-3: Comparison of Flow Meter Data

	Summary of Infiltration/Inflow Rates												
	Current Study: Flow Gauging Period of March 18 - June 27, 2013							1985 Study: Flow Gauging Period of April 18 - June 15, 1984					
	Inflow Calculated from Storm of June 7-8, 2013						Inflow Calculated from Storm of May 3-4, 1984						
minor salsalates non storm of sallo 7 of 2010						innow calculated from Storm of May 3-4, 1704							
Gaging Area	Inch Miles of Pipe	Peak Infiltration Flow (GPD)	Infiltration Flow Rate (GPD/in-mi)	Peak Inflow as Calculated (GPD)	Peak Inflow Corrected for 1.7" Storm (GPD)***	Continuous Monitoring	Gaging Area	Inch Miles of Pipe	Peak Infiltration Flow (GPD)	Infiltration Flow Rate (GPD/in-mi)	Peak Inflow as Calculated (GPD)	Peak Inflow Corrected for 1.7" Storm (GPD)****	Continuous Monitoring
1	50.52	-	-	-	-	No	1	-	-	-	-	-	No
2	15.27	-	-	-	-	No	2	-	-	-	-	-	No
3	5.06	30,200	6,000	-	-	No	3	0.91	20,600	22,700	-	-	No
4	2.68	43,300	16,200	-	-	No	4	3.14	10,000	3,200	-	-	No
5*	11.12	3,300	300	44,000	19,800	Yes	5	3.11	1,100	400	-	-	No
6	6.61	53,600	8,100	-	-	No	6	4.49	33,900	7,600	-	-	No
7	2.52	-	-	-	-	No	7	2.08	25,800	12,400	-	-	No
9	0.96	1,700	1,800	-	-	No	9	0.68	1,100	1,600	-	-	No
10	23.86	49,800	2,100	226,000	101,800	Yes	10	4.94	16,800	3,400	-	-	No
11	69.19	557,000	8,100	740,000	333,200	Yes	11	67.24	777,300	11,600	600,000	778,600	Yes
12	44.02	113,100	2,600	76,000	34,200	Yes	12	41.42	72,000	1,700	75,000	97,400	Yes
13	35.25	57,400	1,600	89,000	40,100	Yes	13	34.40	104,600	3,000	168,000	218,000	Yes
14	66.82	571,100	8,500	641,000	288,600	Yes	14	55.98	2,159,500	38,600	238,000	309,000	Yes
15	51.65	63,500	1,200	286,000	128,800	Yes	15	42.39	279,100	6,600	0	0	Yes
16	81.21	Included in Suba	rea 26		·	Yes	16	68.77	592,900	8,600	630,000	817,600	Yes
17	24.10	109,800	4,600	70,000	31,500	Yes	17	44.53	177,700	4,000	0	0	Yes
18	21.11	Included in Suba	rea 32			No	18	-	-	-	-	-	No
19-1	54.07	297,200	5,500	586,000	263,900	Yes	19-1	54.42	298,100	5,500	750,000	973,300	Yes
19-2	11.88	3,300	300	0	0	Yes	19-2	10.35	9,300	900	0	0	Yes
20	49.75	326,500	6,600	664,000	299,000	Yes	20	45.43	59,700	1,300	55,000	71,400	Yes
21	108.04	548,700	5,100	1,453,000	654,200	Yes	21	104.08	35,200	300	0	0	Yes
22	106.49	664,700	6,200	959,000	431,800	Yes	22	104.65	480,900	4,600	195,000	253,100	Yes
23	29.80	84,300	2,800	121,000	54,500	Yes	23	25.85	110,500	4,300	288,000	373,700	Yes
24	37.53	83,200	2,200	370,000	166,600	Yes	24	36.15	77,000	2,100	80,000	103,800	Yes
25**	20.51	14,200	700	-	-	No	25	16.49	69,100	4,200	60,000	77,900	Yes
26	64.09	348,000	2,400	1,802,000	811,400	Yes	26	58.55	312,900	5,300	690,000	862,500	Yes
27	10.23	61,100	6,000	83,000	37,400	Yes	27	-	-	-	-	-	No
28	7.32	12,300	1,700	49,000	22,100	Yes	28	-	-	-	-	-	No
29	7.43	28,600	3,800	229,000	103,100	Yes	29	-	-	-	-	-	No
30	13.47	56,900	4,200	201,000	90,500	Yes	30	2.31	113,600	12,000	-	-	No
31	9.63	34,900	3,600	115,000	51,800	Yes	31	1.78	40,300	4,900	-	-	No
32	25.39	324,800	7,000	507,000	228,300	Yes	32	-	-	-	-	-	No
33	10.16	16,100	1,600	122,000	54,900	Yes	33	-	-	-	-	-	No
TOTALS	1,077.74	4,558,600		9,433,000	4,247,500			834.14	5,879,000		3,829,000	4,936,300	

Note: 1985 Gauging Data reference: "Town of Needham, Massachusetts, Infiltration/Inflow Investigation", CDM, April 1985 *Installed 4/10/13, did not include high groundwater period



^{**}Removed 4/10/13 due to zero velocity readings. Results interpolated

^{***}Total rainfall for June 7-8, 2013 storm event: 3.82 inches

^{****}Total rainfall for May 3-4, 1984 storm event: 1.31 inches

Table 6-4: Changes in Infiltration: Comparing Continuous Gaging Data from 1985 to 2013

	Changes in I/I: Comparing Continuous Gaging Data from 1985 and 2013									
Gaging Area	2013 Peak Infiltration Flow (GPD)	1985 Peak Infiltration Flow (GPD)	% Change in Infiltration Flow Rate as Gaged	Rehab Projects	Change in Total Pipe Length (LF)	1980-1991 Study No of illegal sump pump connections	Observations			
5**	3,300	1,100	200%		4,904	no inspections	Relatively small increase, possibly due to variation in groundwater levels			
10	49,800	16,800	196%		12,340		Inconclusive			
11	557,000	777,300	-28%	1994, 2000	1,483		Reduction due to rehabilitation work			
12	113,100	72,000	57%		1,673	7	Inconclusive			
13	57,400	104,600	-45%		786	2	Inconclusive			
14	571,100	2,159,500	-74%	1994, 2000, 2008 Rt 128 Project	20,335	4	Reduction due to rehabilitation work			
15	63,500	279,100	-77%		5,610	8	Inconclusive			
17	109,800	177,700	-38%	2008 Rt 128 Project	-12,518		Inconclusive comparison due to subarea boundry revisions			
19-1	297,200	298,100	0%	1997	0	13*	No Change			
19-2	3,300	9,300	-65%		1,075		Inconclusive			
20	326,500	59,700	447%		809	7	Inconclusive			
21	548,700	35,200	1459%	2008 Lower 21 & Rt 128 project	4,683	4	Inconclusive			
22	664,700	480,900	38%	1996, 2011	1,509	20	Inconclusive			
23	84,300	110,500	-24%		2,054	9	Inconclusive			
24	83,200	77,000	8%	2008	1,032	4	Relatively small increase, possibly due to variation in groundwater levels			
26 & 16	582,100	312,900	86%	2011 in Area 16 tributary to 26	4,263	12	Inconclusive			
30	56,900	113,600	-50%		5,225	1	Inconclusive			
31	34,900	40,300	-13%		1,393	no inspections	Relatively small increase, possibly due to variation in groundwater levels			
TOTALS	., ,	5,125,600	-18%							
	Note: 1985 Gauging Data reference: "Town of Needham, Massachusetts, Infiltration/Inflow Investigation", CDM, April 1985					Types of Rehab:	Replace & Point Repairs (1994, 2000, 2004)			
	*In the 2009 study for 19.1, previous illegal connections had been corrected but 8 new illegal connections had been found.						Replace & Point Repairs & CIP (1994, 2000, 2008)			
	**Installed 4/10/13, did not include high groundwater period						CIP & new sewer (2008 Route 128)			
iiistaii	instance 4/ 10/ 13, did not include high groundwater period						Test-Seal, Replace & Point Repairs & CIP (1996, 1997, 2011)			



As shown in Table 6-4, Subareas 11 and 14 show a reduction in infiltration that can be attributed to rehabilitation work completed in those subareas. The other six subareas where I/I rehabilitation work has been completed show either an increase in infiltration or inconclusive results despite the I/I work. This could be due to further system degradation, system expansion or new defects in the system where rehabilitation was not completed. It is difficult to compare different years due to varying conditions, for instance, groundwater conditions may differ, potential variations in calculation methods, uncertainty of accuracy correlation between old and new meters, and subarea expansion since 1985. Also, some areas were night gauges which may not represent accurate long-term measurements. Overall, the data shows a combined 18% decrease in peak infiltration in these particular subareas since the 1985 Study.

Section 7 Inflow Analysis

7.1 General

Inflow normally occurs when rainfall enters a sewer system through direct connections such as roof leaders, yard drains, catch basins, sump pumps, manhole covers and frame seals or indirect connections with storm sewers. Wet weather has the biggest influence on inflow; during dry weather, inflow rates are typically near zero. However, during storm events inflow may rapidly affect the sewer system, resulting in an increase in system flow. Increase in flow due to inflow may end shortly after the storm event or it may impact the sewer system for a prolonged period, depending on the type of inflow sources that exist in the system.

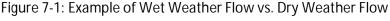
Determination of inflow entering the sewer system was made using data collected throughout the Phase I flow metering program, March 18 through June 27, 2013. Inflow analysis was conducted according to the Department of Environmental Protection (DEP) "Guidelines for Performing Infiltration/Inflow Analyses and Sewer System Evaluation Survey" revised January, 1993. DEP has indicated that they plan to issue an updated version of their Infiltration/Inflow Analyses and Sewer System Evaluation Survey guidelines, however the details of the updates and timeline for issuance has not been made public. One of the changes anticipated that will affect the inflow analysis procedure is a requirement to project calculated rates to the 5-year, 24-hour storm rather than, or in addition to, the 1-year, 6-hours storm currently required. Inflow calculations based on this anticipated guideline revision have been included for consideration.

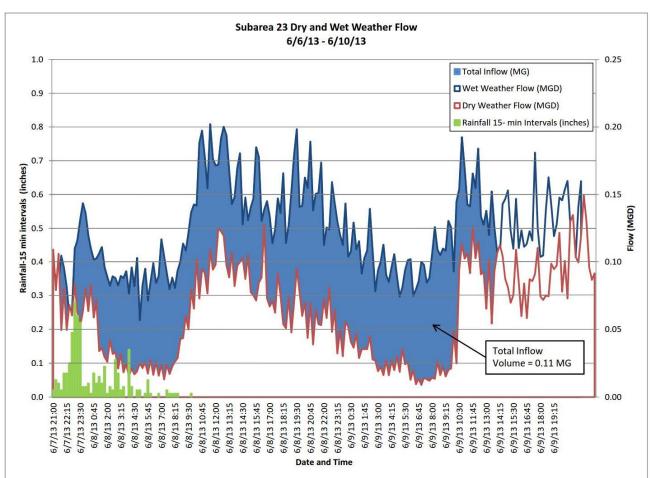
7.2 Inflow Analysis Procedure

Inflow was estimated by comparing meter data for both dry and wet weather conditions to determine the volume and peak one hour rate of inflow. Metered inflow was then extrapolated to the 1-year design storm to be comparable to the "quantified inflow" volume and rate from previous studies. According to DEP's "Guidelines for Performing Infiltration/Inflow Analyses and Sewer System Evaluation Survey" revised January, 1993, the one-year, six-hour storm produces approximately 1.72 inches of rainfall in the Boston area, with peak intensity of 0.87 inches per hour and an average intensity of 0.29 inches per hour. MADEP guidelines define a significant storm event as one which averages at least 0.20 in/hr of rainfall for six consecutive hours (at least 1.2 inches of rain in six hours). Only one significant storm event, not influenced by other storms, occurred during the study period. For this storm event, wet weather flow was compared to typical dry weather flow. Dry weather days selected were the same type of days that the storm event occurred (i.e. weekday or weekend day), so flow patterns would be similar. The wet weather period analyzed was June 6 through June 10, 2013 and the dry weather period was May 2 to May 6, 2013.

Flows during the wet weather period were plotted against the flows of the comparable dry weather days along with rainfall amounts. Total inflow volume was estimated to be the area between the two plots from the time the storm began and the point at which the two plots converged. The point where the two plots converged was assumed to be the time when the storm event inflow effectively ended. A second storm event began the evening of June 10, 2013 which prevented the wet weather hydrograph converging with the dry weather hydrograph in some subareas. To calculate inflow volume, results from the wet weather hydrographs were interpolated.

An example of this graph is shown in Figure 7-1. The dark blue line represents the flow for the storm event, while the red line represents the comparable flow for a dry weather day. The green columns along the bottom represent rainfall amounts. The blue area between the two plots from the beginning of the storm until the point where the plots converge is estimated metered inflow volume. Dry vs wet weather hydrographs for all metered subareas can be found in Appendix F.





Some dry weather flows were adjusted for groundwater and infiltration levels to represent similar groundwater and infiltration levels at the beginning of the storm event. Dry weather hydrographs for subareas 11, 12, 13, 14, 15, 17, 19-1, 21, 27, 28, and 32 were adjusted in this fashion. All subarea adjusted dry weather flow hydrographs can be found in Appendix G.

Inflow rates were calculated by subtracting dry weather flow volume from wet weather flow volume in each subarea. Peak inflow rate was estimated to be the largest rate difference, determined over a one hour period, between the storm event hydrograph and the dry weather hydrograph. Since only one storm event occurred during the study period, a linear relationship between inflow rate and total rainfall amount was assumed when projecting calculated rates to the one-year, six-hour storm in the Boston area. The total rainfall for the storm event analyzed in June 2013 was 3.82 inches.

As previously noted in this report, data from meter 16 was unusually high, and we believe the results were inaccurate. As such, flow from downstream i.e. subarea 26 could not be isolated completely. Flows from tributary meters were subtracted from subarea 26 raw meter data. However, since it was not possible to determine flow from subarea 16 (one of the subarea 26's tributaries) flows from subarea 26 could only be isolated to include subarea 16. Inflow was analyzed, as mentioned above, for the subarea 26 in conjunction with subarea 16.

As noted above, one of the changes anticipated to be included in the updated DEP guidelines is a requirement to project calculated rates to the 5-year, 24-hour storm rather than, or in addition to, the 1-year, 6-hours storm. DEP has not provided data on the 5-year, 24-hour storm yet. For this analysis TR-55 methods were used indicating a total rainfall of 4-inches for a 5-year, 24-hour storm in the Boston area. Total inflow volumes corrected for the 4" storm were included in the inflow results analysis for comparison purposes.

7.3 Inflow Results

Inflow rates and total inflow volumes for all subareas with flow meters installed between the end of March and end of June 2013, are found in Table 7-1. Total inflow volume corrected for the 1.7" storm (1-year, 6-hour) for the combined subareas is estimated at 2.85 million gallons. Total Peak Inflow corrected for the 1.7" storm for the combined subareas is estimated at 4.25 mgd. Total Inflow Volume corrected for the 4" storm (5-year, 24-hour) for the combined subareas is estimated at 6.63 million gallons. Total Peak Inflow corrected for the 4" storm for the combined subareas is estimated at 9.88 mgd.

Subarea	Peak One Hour Inflow as Calculated (GPD)	Peak Inflow Corrected for 1.7" Storm (GPD)	Peak Inflow Corrected for 4" Storm (GPD)	Total Inflow Volume as Calculated (gal)	Total Inflow Volume Corrected for 1.7" Storm (gal)	Total Inflow Volume Corrected for 4" Storm (gal)
5	44,000	19,800	46,100	32,400	14,600	33,900
10	226,000	101,800	236,600	183,000	82,400	191,600
11	740,000	333,200	774,900	533,600	240,300	558,700
12	76,000	34,200	79,600	16,400	7,400	17,200
13	89,000	40,100	93,200	74,300	33,500	77,800
14	641,000	288,600	671,200	270,000	121,600	282,700
15	286,000	128,800	299,500	197,100	88,700	206,400
17	70,000	31,500	73,300	62,000	27,900	64,900
19-1	586,000	263,900	613,600	725,100	326,500	759,300
20	664,000	299,000	695,300	612,600	275,800	641,500
21	1,453,000	654,200	1,521,500	427,600	192,500	447,700
22	959,000	431,800	1,004,200	1,129,000	508,300	1,182,200
23	121,000	54,500	126,700	114,200	51,400	119,600
24	370,000	166,600	387,400	384,200	173,000	402,300
26 & 16	1,802,000	811,400	1,886,900	489,500	220,400	512,600
27	83,000	37,400	86,900	72,400	32,600	75,800
28	49,000	22,100	51,300	23,100	10,400	24,200
29	229,000	103,100	239,800	220,500	99,300	230,900
30	201,000	90,500	210,500	114,100	51,400	119,500
31	115,000	51,800	120,400	126,300	56,900	132,300
32 & 18	507,000	228,300	530,900	434,900	195,800	455,400
33	122,000	54,900	127,700	88,500	39,800	92,700

Table 7-1: Subarea Inflow Rates and Volumes

7.4 Historic Inflow Comparison

A summary of infiltration and inflow findings, from this investigation, compared to CDM's 1985 findings is shown in Table 6-3. Total Peak Inflow corrected for the 1.7" storm for the combined subareas in 1985 is estimated at 4.94 mgd; however, as shown in the table, inflow was not calculated for all subareas in the 1985 study so this total cannot be directly compared to the 2013 total inflow volume. Table 7-2 shows the change in calculated peak inflow rates between subareas where data was collected in both 2013 and 1985. Included on Table 7-2 are I/I rehabilitation projects that have been completed between 1985 and 2013. They have been highlighted according to the type of rehabilitation performed.

As shown in Table 7-2, subarea 19-1 shows a reduction in inflow that can be attributed to rehabilitation work completed in that subarea. Inflow data compared for subareas 11 and 12 does not show a significant and reliable increase or decrease in inflow to draw conclusions from. Subareas 13 and 23 indicate significant reduction in inflow however the reason is unclear as

Table 7-2: Changes in Inflow: Comparing Continuous Gaging Data from 1985 to 2013

				Changes in	I/I: Comparing	aging Data from	1985 and 2013	
Gaging Area	2013 Peak Inflow as Gaged (GPD)	1985 Peak Inflow as Gaged (GPD)	% Change in Inflow Flow Rate as Gaged	% Change in Inflow Flow Rate Corrected for 1.7" Storm (GPD)	Rehab Projects	Change in Total Pipe Length (LF)	1980-1991 Study No of illegal sump pump connections	Observations
11	740,000	600,000	23%	-57%	1994, 2000	1,483	-	Inconclusive
12	76,000	75,000	1%	-65%		1,673	7	Inconclusive
13	89,000	168,000	-47%	-82%		786	2	Significant reduction in inflow
14	641,000	238,000	169%	-7%	1994, 2000, 2008 Rt 128 Project	20,335	4	Increase in inflow as gauged may be related to new sewer pipes installed, requires investigation
19-1	586,000	750,000	-22%	-73%	1997	0	13*	Reduction due to rehabilitation work
20	664,000	55,000	1107%	319%		809	7	Significant increase in inflow, requires investigation
22	959,000	195,000	392%	71%	1996, 2011	1,509	20	Significant increase in inflow, requires investigation
23	121,000	288,000	-58%	-85%		2,054	9	Significant reduction in inflow
24	370,000	80,000	363%	61%	2008	1,032	4	Significant increase in inflow, requires investigation
26 & 16	1,802,000	690,000	161%	-6%	2011 in Area 16	4,263	12	Significant increase in inflow, requires investigation
TOTALS	6,048,000	3,139,000	93%	0%				
Note: 1985 Gauging Data reference: "Town of Needham, Massachusetts, Infiltration/Inflow Investigation", CDM, April 1985						Types of Rehab:	Replace & Point Repairs & CIP (1994, 2000, 2008)	
*In the 2 found.	*In the 2009 study for 19.1, previous illegal connections had been corrected but 8 new illegal connections had been found.							CIP & new sewer (2008 Route 128)
**Install	ed 4/10/13, di	id not include	high groundwat	er period				Test-Seal, Replace & Point Repairs & CIP (1996, 1997, 2011)



rehabilitation has not been done in these areas. Subareas 20, 22 and 24 all show significant increases in inflow both as gauged and as corrected for the 1.7" storm. Subareas 14, 26 and 16 show a relative increase in inflow as gauge and minimal to none corrected for the 1.7" storm. Specific areas recommended for additional inspection are discussed in Section 10.

Table 7-2 identifies total Inflow as gauged increase of 93% for these combined subareas. The percent change has also been calculated for the inflow rate corrected for the 1.7" storm which shows no change of inflow rate for the combined areas. The large discrepancy between the two shows how difficult it is to compare inflow from different storms that varied in size and intensity. Similar to discussion in the previous section on infiltration comparison, Section 6, and as discussed further in Section 8, it is difficult to compare different years due to varying conditions. Variations in groundwater conditions, rainfall intensity and frequency differences, potential variations in calculation methods, uncertainty of accuracy correlation between old and new meters, subarea expansion since 1985 all lead to variation in conditions between years.

Section 8

MWRA Flow Meters

8.1 General

The Massachusetts Water Resources Authority (MWRA) owns and operates two continuous flow meters in the Town of Needham. These flow meters record the majority of the Town's total wastewater flow in fifteen minute intervals and the location of these two meters is shown on the map in Appendix B.

BETA requested flow monitoring data from the MWRA for both meters during the 12 week study period to compare meter results and establish a baseline flow. MWRA meter data was also obtained for the past five years, 2009 thru 2013, to compare the relationship of flows during the study period to other recent years.

8.2 Meter Locations

Table 8-1 denotes the street location of each MWRA meter and also specifies which subareas flow to each MWRA meter. Figure 5-1 in Section 5 graphically indicates tributary area flow logistics. MWRA meter locations are identified on the map in Appendix B.

Table 8-1: MWRA Flow Meter Locations

Flow Meter No.	Location	Tributary Subareas
NH-1C	Dedham Avenue	1, 3, 4, 8, 11, 12, 13, 15, 16, 19-1, 19-2, 20, 22, 23, 26, 27, 28, 29, 30, 31
NH-2C	Great Plain Avenue	2, 14, 17, 18, 21, 24, 25, 32

8.3 Flow Analysis Results

Graphs of flow vs. time including rainfall amounts for the Spring 2013 study period for each MWRA flow meter are shown in Figure 8-1 to Figure 8-4 at the end of this section. A summary of infiltration and inflow results for the 2013 Study Period are shown in Table 8-2.

Table 8-2: MWRA Flow Monitoring Results for 2013 Study Period

Meter	Peak Infiltration Flow (GPD)**	Inch Miles of Pipe	Infiltration Flow Rate (GPD/in-mi)	Peak Inflow as Gauged (MGD)*
NH-1C	2,601,250	704	3,695	8.45
NH-2C	974,000	319	3,053	1.83
Totals	3,575,250	1,023	6,748	10.29

^{*}Total rainfall for June 7-8, 2013 storm event: 3.77 inches

^{**}Dry Weather High Groundwater Period Considered March 22-29, 2013

MWRA flow monitoring results for infiltration and inflow were compared to the flow monitoring results of the Town of Needham flow monitoring program however the difference in scale of the two programs prevented a well-founded comparison from being made.

8.4 Historic MWRA Flow Data

As discussed in Section 1, MWRA flow data from 1985 was obtained from the Town's Wastewater Master Plan dated April 1985. 1985 average daily flow for meters NH-1C and NH-2C were 3.40 and 1.83 mgd, respectively, and 5.23 mgd combined. BETA obtained flow data from the MWRA for both of these meters from 2009 – 2013. Graphs of these flows vs. time including rainfall amounts are shown in Figure 8-5 to Figure 8-8 at the end of this section. Average daily flows for this five year period were estimated to be 2.55 mgd at meter NH-1C, 1.21 mgd at meter NH-2C, and 3.76 mgd combined. This shows a 28% decrease in the daily flows over the past twenty years, however the precipitation totals for 1985 were on average 40% higher than the average over the past five years indicating a possible correlation between rainfall totals and inflow/infiltration. Also to be considered is increase in population and expansion of sewage system infrastructure over the past twenty-five or more years. Total population has increased from 27,901 in 1980 to 28,886 in 2010 according to US census data. The Town's 1999 Wastewater Master Plan identified that 92% of the current population (26,575 based on the 2010 census data) was connected to the Needham sewer System. MWRA's FY2014 I/I Reduction Report indicated that the Town's current sewered population is 28,152. Since 1985 the total length of sewer pipe in the Town has increased by approximately 5.9% (7 miles) and total inch miles of pipe calculated for the study area has increase by approximately 11.5%. Table 8-3 shows monthly flow data collected by year and provides average rainfall data.

Using MWRA data from both meters and corresponding rainfall data provided by MWRA, spring rain events from various years with a minimal total rainfall of 1.2" over two days, not influenced by other rain events, were analyzed with results presented in Table 8-4 below. Included is data from the Spring 2013 flow monitoring program for the June 7-8 storm event used to analyze infiltration and inflow for this report. Rainfall data (taken at the water treatment plant) was available as daily totals similar to the MWRA flow data. Inflow was totaled for a five day period beginning with the first day of rainfall for each storm to correspond with the wet weather period analyzed for inflow during 2013 Study Metering. The table below is sorted from smallest rainfall total to largest.

Table 8-3: MWRA Flow Meter Data (2009-2013)

Month	Month Average Daily Flow (MGD) NH-1C				Average Daily Flow (MGD) NH-2C			Total Monthly Rainfall (inches)							
IVIOLITI	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
January	3.386	2.977	2.335	2.215	2.629	1.377	1.416	1.215	1.114	1.042	3.70	3.29	1.58	3.30	1.42
February	3.489	3.240	3.055	2.062	2.775	1.297	1.572	1.574	0.994	1.046	1.81	5.53	2.55	0.89	2.84
March	3.594	7.703	4.584	1.960	4.520	1.461	2.814	2.344	1.003	1.791	2.52	15.16	2.24	1.96	2.38
April	3.499	5.098	3.102	1.837	2.584	1.518	2.109	1.943	0.922	1.065	4.11	2.09	4.95	3.77	1.84
May	2.511	2.193	2.056	2.329	2.024	1.313	1.338	1.367	1.059	0.856	2.89	3.21	3.01	11.35	4.68
June	2.083	1.904	1.567	2.050	4.007	0.990	1.173	1.193	0.896	1.418	4.25	3.29	5.32	0.04	10.51
July	2.668	1.546	1.020	1.683	2.008	1.120	0.912	0.967	0.737	0.760	9.24	2.10	2.43	7.49	3.52
August	2.027	1.621	1.803	1.703	1.634	0.973	0.848	1.157	0.736	0.674	2.32	4.18	11.56	3.72	1.94
September	1.878	1.571	2.417	1.706	1.900	1.041	0.926	1.933	0.672	0.647	2.41	2.92	6.33	4.23	3.93
October	2.179	1.943	3.459	1.621	1.636	1.175	1.135	1.587	0.709	0.592	5.45	4.85	7.34	6.61	1.10
November	2.782	2.170	3.481	2.213	1.500	1.247	1.192	1.629	0.819	0.653	4.06	3.79	4.10	0.88	2.70
December	3.346	2.381	3.377	2.418	2.089	1.542	1.351	1.629	0.919	0.913	4.75	0.32	4.23	5.59	3.88
Average	2.787	2.862	2.688	1.983	2.442	1.254	1.399	1.545	0.882	0.955	3.96	4.23	4.64	4.15	3.40



Table 8-4: Significant Storm Inflow Comparison for Both Meters Combined (MWRA 2009-2013)

Wet Weather Period*	Total Rainfall** (in)	Estimated Total Inflow (MGD)
April 12-16, 2011	1.21	2.63
May 18-22, 2010	1.61	1.01
April 20-24, 2009	1.65	3.40
April 16-20, 2011	1.70	9.04
June 5-9, 2010	2.06	2.73
March 23-27, 2010	2.27	22.27
April 22-26, 2012	3.49	4.66
June 6-10, 2013	3.77	10.29
March 13-17, 2010	7.31	46.10

^{*}Five day period beginning with rain event. Rain event criteria: total rainfall 2 days >1.2".

Sorting the table by total rainfall shows that greater rainfall totals do not necessarily create larger inflow. For instance the 2010 March 23-27 rain event with a total rainfall of 2.27" resulted in an estimated 22.27 MG of inflow while the 2012 April 22-26 rain event with over an inch more of rain resulted in a much smaller estimated total inflow of 4.6 MG. Looking closer at these rain events it appears that rainfall intensity plays a bigger role in total inflow than total rainfall. The 3.49" of rain in the 2012 April 22-26 rain event occurred over the course of two days while 2.05" of rain in the 2010 March event occurred during a one day period. Another example is the 2009 April 20-24 and 2011 April 16-20 rain events that had similar rainfall totals with similar distributions between two days however the 2009 April event recorded 5.64 MG less in estimated total inflow than the 2011 April event. Daily rainfall and metering totals do not provide enough data to analyze a relationship between rainfall intensity and inflow. What this data does show is where the June 7-8, 2013 rain event, used for infiltration/inflow analysis in this report, falls in relation to the group of 10 significant storms of the past five years evaluated in Table 6-3. Ranking the storms with 1 being lowest and 10 being highest for total rainfall and estimated total inflow, the Spring 2013 rain event places 7 and 6, respectively. This event is slightly above the mean for the past five years in both categories.

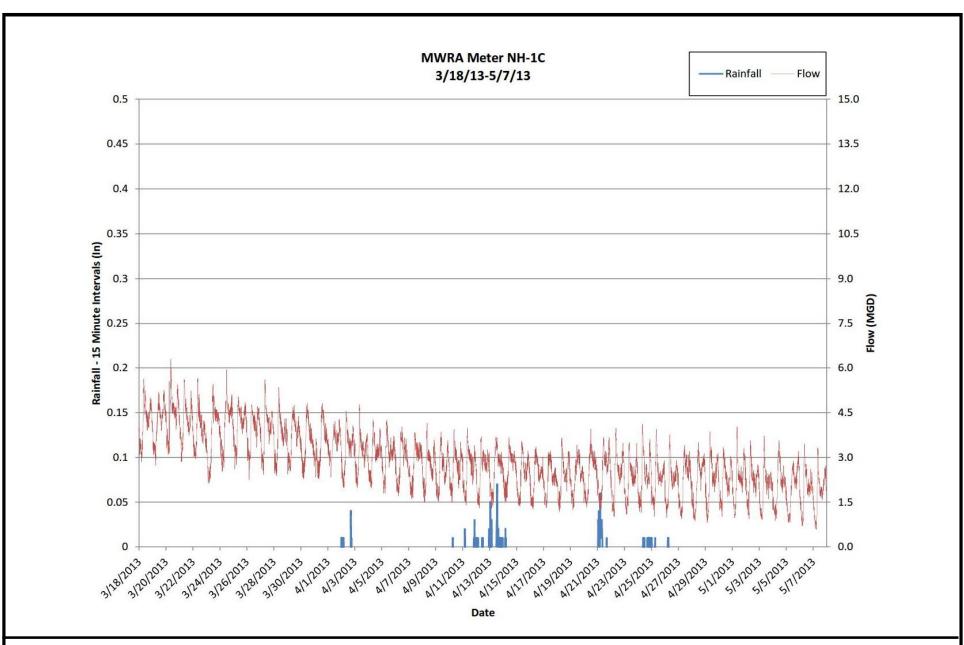
Table 8-5 below identifies the peak day inflow and infiltration totals for both meters combined based on MWRA data for the spring of each of the last five years as well as the five-year average to compare magnitude of peak flows each year.

^{**}Rainfall data provided by MWRA except for "2013 Study Metering as Gauged" obtained from temporary rain gauge installed as part of the 2013 Study.

Table 8-5: Summary of Spring Annual Peak I/I Flows for Both Meters Combined (MWRA 2009-2013)

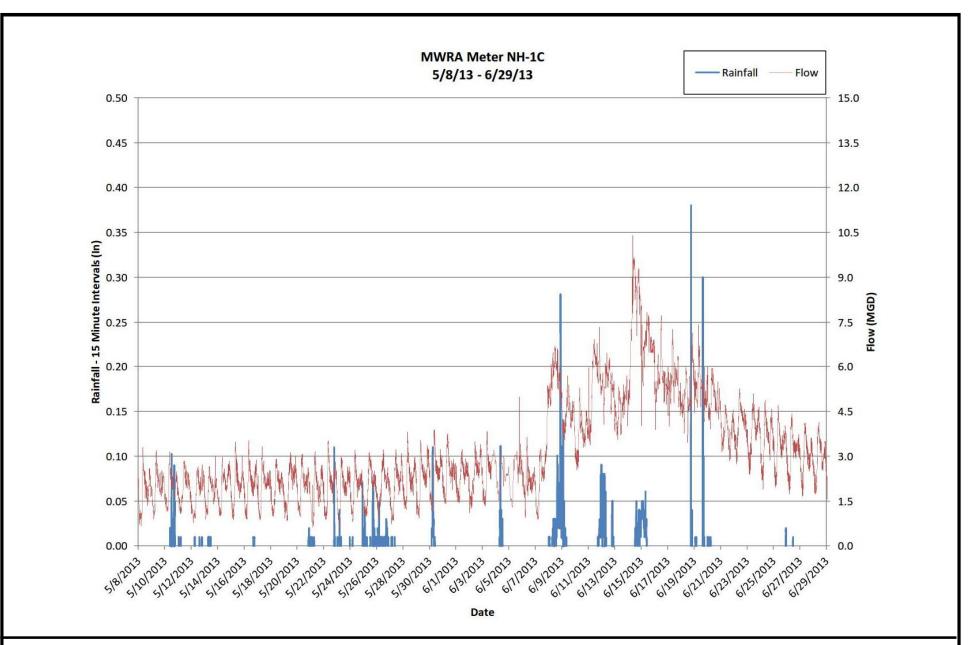
Year	Peak Daily Infiltration (MGD)	Peak Day Inflow (MG)	Date of Peak Day Inflow
2009	1.80	2.53	3/11/2009
2010	3.82	12.92	3/17/2010
2011	2.29	6.50	3/8/2011
2012	0.74	1.33	5/10/2012
2013	3.58	1.83	6/8/2013
5-year Average	2.44	5.02	

The same methodology for Inflow/Infiltration analysis described in Sections 6 & 7 were used for the MWRA 2009-2013 data. As shown in Table 8-5, peak day inflow and infiltration rise and fall together between years. They also follow the same trend as historic rainfall as discussed in Section 4.1.3. 2010 had the highest precipitation total in the past 5 years resulting in the highest peak infiltration and peak inflow volumes. 2009 and 2012 had the lowest precipitation totals of the last five years correlating to the lowest peak day inflow and infiltration flows metered by MWRA. The 2013 peak daily infiltration is about half of the average and peak day inflow is slightly below the average for the past five years.



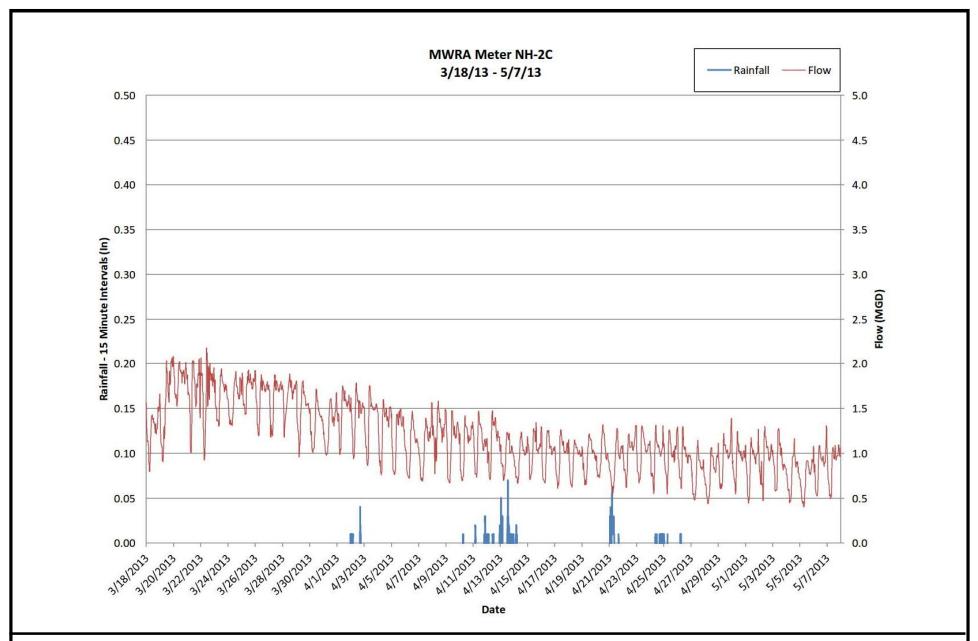


Flow vs Time Graph MWRA Meter NH-1C 3/18/13-5/7/13



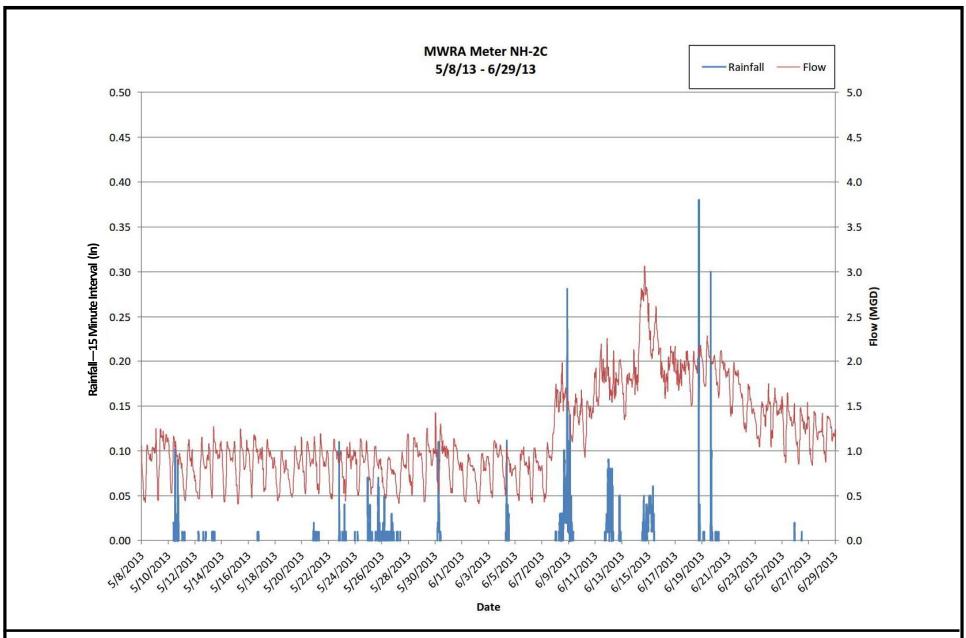


Flow vs Time Graph MWRA Meter NH-1C 5/8/13-6/29/13



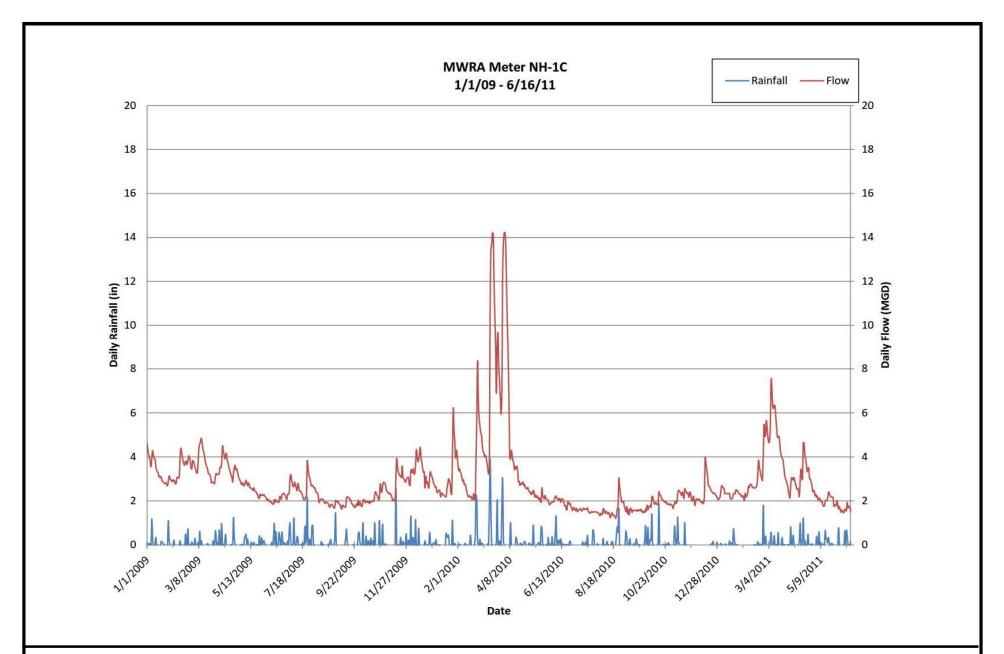


Flow vs Time Graph MWRA Meter NH-2C 3/18/13-5/7/13



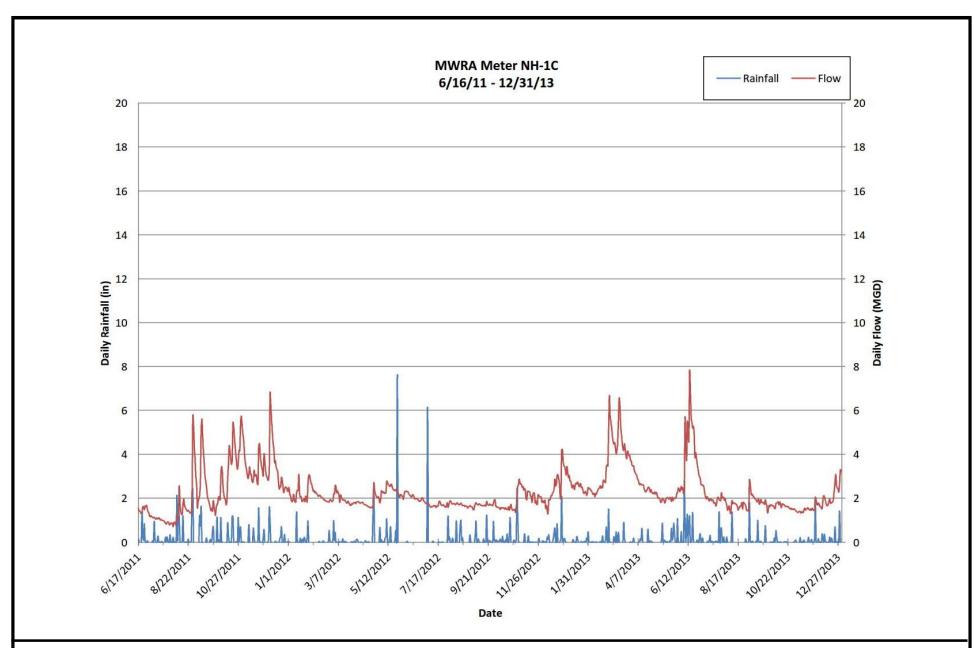


Flow vs Time Graph MWRA Meter NH-2C 5/8/13-6/29/13



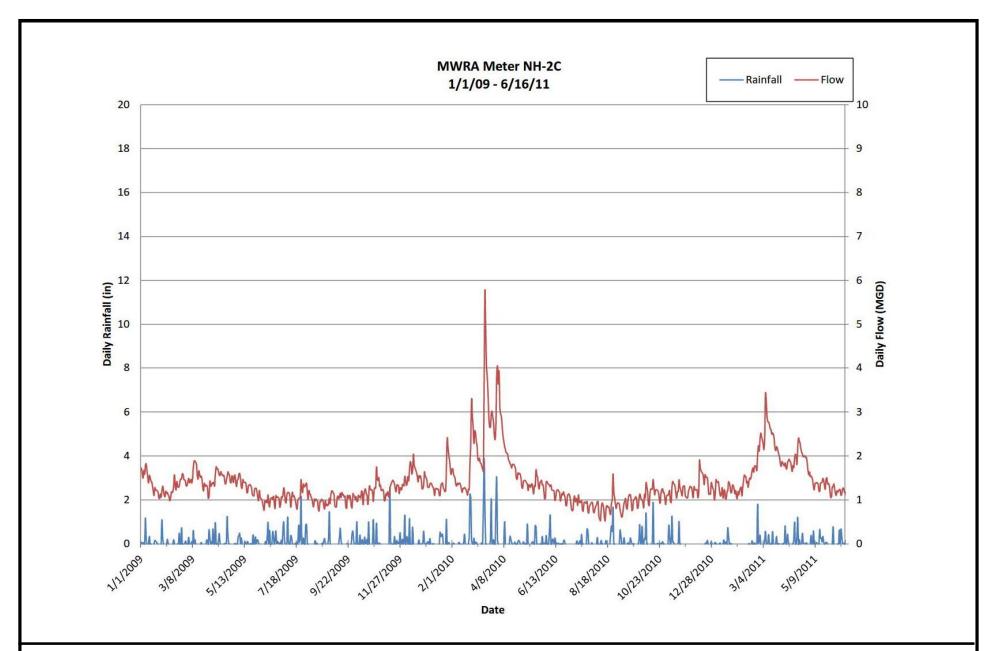


Flow vs Time Graph MWRA Meter NH-1C 1/1/09-6/16/11



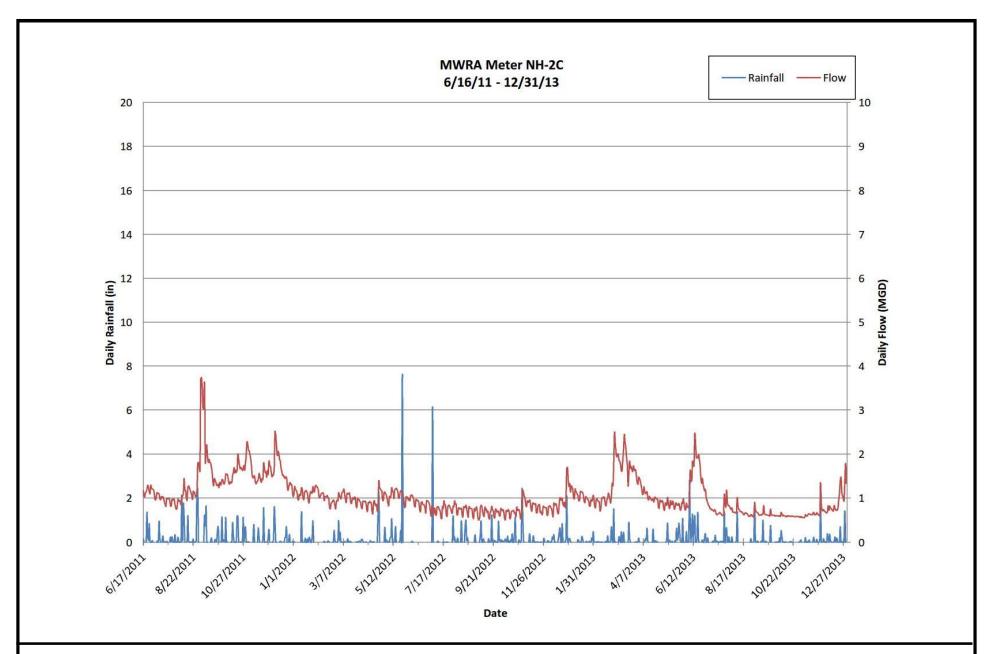


Flow vs Time Graph MWRA Meter NH-1C 6/16/11-12/31/13





Flow vs Time Graph MWRA Meter NH-2C 1/1/09-6/16/11





Flow vs Time Graph MWRA Meter NH-2C 6/16/11-12/31/13

Section 9

Long-Term Flow Monitoring

9.1 General

As part of this effort, the Town purchased ten permanent and two portable flow meters to be installed following the spring 2013 infiltration/inflow investigation. After analyzing flow data from spring 2013, BETA discussed results with the Town and recommended subareas to install permanent and portable meters. Meter locations were determined based upon severity of infiltration/inflow as well as size of each sewer subarea. Selected meter unit was the Isco 2150 Area Velocity Module, of which catalog sheets can be found in Appendix I. Real-time data from the 10 permanent flow meters is currently available through an online web portal using a username and password while data from the two portable meters must be downloaded from each unit directly. A map of meter locations can be found in Appendix J.

9.2 Permanent Meter Locations

The Town purchased ten permanent flow meters that were installed as part of this project on December 7, 2013 by EST. Table 9-1 lists permanent flow meter locations recommended by BETA and agreed upon by the Town of Needham.

Subarea	SMH No.	Location	Tributary Flow Measured
11	S29-003	1394 Great Plain Avenue	-
14*	S05-083	24 Crawford Street	
15	S15-070	Tillotson Road Easement	-
16	S40-044	92 Lincoln Street	8, 12, 13, 15, 29
19-1	S39-121	14 Maple Place	-
20	S40-113	266 Dedham Avenue	-
21	S52-111	215 Valley Road	14, 17, 18, 25, 32
22	S41-054	Prince Street and Cook Street	-
24	S52-086	146 Great Plain Avenue	-
32	S05-109	292 Reservoir Street	17, 18

^{*}The meter for Subarea 14 was originally located in SMH No. S05-108 in the Crawford Street Easement and relocated to its permanent location on January 15, 2015.

Flow meters installed in subareas 16, 21, and 32 also record flow from tributaries indicated in Table 9-1.

9.3 Permanent Meter Operation and Maintenance

Meters installed are Isco 2150 Area Velocity Flow modules that use continuous wave Doppler technology to measure flow levels and average flow velocity and calculate the flow rate and total flow. Flow level and velocity measurements are read from a sensor placed in the flow stream and attached to the meter with a cable. At each location the sensor was installed at the invert of the inflow pipe to the existing sewer manhole using a spring ring to hold it in place.

Flow modules were coupled with two batteries and an Isco 2130c Cellular Modem Module for automated remote retrieval of data. Isco 2130c modems provide two-way communication through cell phone access. The modem automatically sends data via the internet from the flow meter in the field to a designated server running Isco data collection software. Real-time data from the 10 permanent flow meters is currently available through an online web portal using a username and password. The modem module is attached to the flow module and a battery module, creating a three component stack and is suspended in an existing sewer manhole using a concrete anchor. The modem and flow module use the same battery module containing two 6 volt alkaline batteries as their power source. Batteries require replacement on average every 5-6 months while recording data at 15-minute intervals. Other power options including rechargeable batteries, hardwire, and solar are available for these meters.

9.4 Portable Meter Locations

The Town purchased two portable flow meters to be installed as part of this project and are intended to be moved as needed. Table 9-2 lists the initial portable meter locations recommended by BETA and agreed upon by the Town of Needham. Both flow meters were installed by EST on December 7, 2013.

Table 9-2: Initial Temporary Meter Locations

Subarea	SMH No.	Location	Tributary Flow Measured
27	S29-008	16 Abbott Street	-
30	S59-047	69 Wildwood Drive	-

BETA also recommended additional initial locations to place temporary meters once meters are no longer required at the original locations in Subareas 27 and 30. Table 9-3 lists the additional recommended locations.

Table 9-3: Additional Temporary Meter Locations

Subarea	SMH No.	Location	Tributary Flow Measured
26*	\$50-098	30 Howland Street	19-1, 19-2, 11, 27, 28, 16, 12, 13, 15, 29
26*	S50-107	30 Howland Street	19-1, 19-2, 11, 27, 28, 16, 12, 13, 15, 29
23	S51-035	South Street and Dedham Ave	-
18	S06-056	Second Ave	-
10	S64-002	19 Russel Road	-
17	S11-028	A Street and First Avenue	-

^{*}Meters correspond to "26 Howland 20" and "26 Howland 30". To accurately measure outgoing flow from Subarea 26 both temporary meters should be installed at this location at the same time.

9.5 Portable Meter Operation and Maintenance

Portable meters installed are the same Isco 2150 Area Velocity Flow modules with similar installation being used for the permanent meters described in Section 9.3. The difference is that portable meters do not include Modem Modules for automated remote retrieval of data. Data is stored in secure flash memory and is manually retrieved on-site on a regular basis. The same type of battery module is used as the permanent meters, containing two 6 volt alkaline batteries as their power source. Batteries need replacement on average every 5-6 months while recording data at 15-minute intervals.

9.6 Ongoing Rain Gage Data Collection

One town-owned rain gauge resides at the water treatment facility. Rainfall totals are manually taken on a daily basis for total daily rainfall amounts. This has been and will be used in conjunction with continuing meter data to evaluate infiltration and inflow quantities from the end of June 2013 thru June of 2015.

9.7 Extended Monitoring Period

As noted above, flow meters and groundwater gauges have continued to be monitored since the end of Phase I in June 2013 and continue to be monitored in each of the Subareas. Ongoing monitoring is important to direct future I/I program efforts and to track rehabilitation efforts. Phase II of this I/I Study included CCTV inspection of approximately 209,000 feet of sewer main located in sewer subareas determined to have excessive I/I based on the results of this Phase I Investigation. During the CCTV inspection, flow rates at 10 different meter locations were monitored daily and compared to previous year amounts to identify when groundwater levels were high and to target suspect areas to televise. This made the CCTV effort more effective by ensuring that the CCTV inspection be conducted during periods of seasonally high groundwater when suspect infiltration and inflow could be definitively identified and quantified. For example,

EST began CCTV inspection on March 18, 2014. BETA recommended inspection begin on that date due to a rain event on March 13 and 14, 2014 where 0.55 inches of precipitation fell. Flow meter data showed flows were up in particular subareas as a result of this rain event. In Subarea 20 flows were measured at 103% of 2013 peak infiltration rates calculated in Phase I of the Town-wide I/I investigation. CCVT was conducted only in those subareas where flows were measuring at or above 100% of the 2013 peak infiltration rates. EST stopped inspection on March 21, 2014 due to low flow rates in all subareas recommended for inspection. Inspections resumed again when meter data showed flows in all subareas were up over 100% of the 2013 peak infiltration rates.

Based on this targeted TV inspection effort, BETA can recommend quantifiable, cost-effective rehabilitation to remove I/I from the sewer system in Phase II of this study. The results of rehabilitation work can be tracked and evaluated with ongoing flow monitoring for permitting and future I/I planning purposes. The Town can also use ongoing flow monitoring information to track efforts in sump pump disconnections and changes in system conditions such as sudden increases in flows due to breaks or illegal connections. BETA recommends that the Town continue monitoring flows at the permanent and temporary meter sites especially following infiltration rehabilitation or inflow disconnection work to evaluate the effectiveness of removal and track seasonal and annual trends for future I/I studies.

Section 10

Recommended I/I Program

10.1 General

The purpose of CCTV Inspections is to identify specific locations and sources of infiltration entering the sewer system and to provide a record of actual structural conditions within sewer lines. TV inspection allows the physical condition of the inside of the sewer pipe to be observed, infiltration sources located, and the infiltration rate to be estimated. Television inspections also provide a permanent visual record available for subsequent review. Based on results from the Phase I Investigation of the Town of Needham's sewer system, BETA has developed a strategy for upcoming TV investigations. Sewer lines recommended for TV inspection were segments determined from results of flow metering and instantaneous gaging program to have excessive infiltration and/or inflow. Review of video logs allows for subsequent review and recommendations for prioritization and cost effective rehabilitation of the sewer system.

10.2 Prioritization Criteria

BETA analyzed infiltration and inflow results to develop a strategy for TV inspection and inflow investigations. Recommendations for TV inspection were ranked based primarily on infiltration values as it is often difficult to see signs of inflow during TV inspections and other investigation techniques may be more advantageous. Also taken into consideration, was location of each subarea, the year each subarea was last TV'd, previous rehabilitation efforts, and whether the entire subarea or only part of the subarea was inspected. From information collected from the Town, BETA was able to generate the map located in Appendix C depicting the last known year of previous inspection of sewer mains and manholes as well as known rehabilitation locations.

Areas where inspection work was conducted from 2004 thru 2013 were eliminated from recommendation in the short term as we assumed that previous TV inspection and rehabilitation efforts remain effective for 10 years. In addition, new sewer mains installed within the last 10 years were also eliminated from TV inspection recommendations in the short term.

Recommendations for inflow investigations were based on flow meter data indicating subareas with significant inflow volumes. Using DEP guidelines, we evaluated flows obtained during the spring 2013 town-wide metering program. Key infiltration and inflow rates were calculated using flow data as described in Section 7 and Section 8.

10.3 TV Inspection Schedule and Locations

According to DEP, the recommended inspection period is between March 1 and June 30 and to take advantage of historical high groundwater levels. An exception to this rule is noted if groundwater levels are known to be sufficient beyond this time period. In the case of the ongoing data collection from the 12 meters in Town, groundwater levels and infiltration rates

were tracked real time by analyzing measured flows. Exceptions to the prioritized list may be considered based on ongoing data collection results. BETA recommends monitoring real time flow rates and using these as a guide for TV inspection periods. During TV inspection, the contractor should note observed manhole defects encountered during internal sewer pipe inspection. External inspection of priority manholes at major sewer junctions should also be completed to identify possible locations for I/I sewer investigation.

The map in Appendix L depicts sewer reaches recommended for inspection based on subareas and prior inspections. Approximately 209,000 feet of pipe is recommended to be TV inspected in the first year to maximize the available appropriation. Table 10-1 below summarizes these subareas and the length of pipe to be inspected in each. If the opportunity presents itself to go beyond the recommended subareas areas below, we would recommend continuing down the list noted in Table 7-2, taking into consideration segments more recently televised.

_	ı		
Priority	Subarea	Total Length of Pipe in	Length of Pipe to be
		Subarea (feet)	Inspected (feet)
1	4	1,991	1,991
2	14	41,276	38,313
3	11	40,852	38,841
4	6	3,537	1,414
5	32	13,918	13,177
6	20	31,154	30,854
7	Upper 22	42,799	39,704
8	3	3,366	3,366
9	27	7,155	7,155
10	19-1	34,525	34,525

Table 10-1: Year One Priority Subareas Recommended for TV Inspection

During field TV inspection operations, it is suggested that reaches of sewer clearly indicating no evidence of infiltration have TV inspection postponed to a later date in the program and noted as such. Visual indication of low or no flow of clear water just prior to or during the inspection program could be used as a guide. Inspection efforts can be applied to other areas recommended for inspection increasing the probability of identifying infiltration. To evaluate and compare the pipeline condition of sewers, BETA recommends adhering to the most recent Pipeline Assessment Certification Program (PACP) codes developed by the National Association of Sewer Service Companies (NASSCO) for naming and rating defects found.

Manhole inspections can also be considered if significant sources of infiltration from manholes are identified during TV inspection operations. This can also be completed during the design phases of future rehabilitation efforts.

10.4 TV Inspection Scope and Costs

There are several costs to consider before embarking on a field I/I investigation program. The first is the cost of the TV inspection itself. While the town possesses the equipment, is typically an onerous task to perform daily inspections during high groundwater season. If TV inspection by Needham forces does not fit into the Town's schedule, a subcontractor would be required. Typical costs for TV inspection including light cleaning are about a \$ 1.75 per linear foot average for all size pipes in Needham. Disposal of accumulated sediment also needs to be included. Heavy cleaning of pipes is also routinely encountered and additional costs may be encouraged unless the town can perform this work.

Often during or after heavy rain, some sewer reaches have too much flow to successfully view a majority of the pipe and subsequently should be bypassed during TV inspection. If this cannot be performed by the Town, typical costs are approximately \$1,600 a day. Police details are required on several streets and this cost must also be factored in to the budget. Table 10-2 below summarizes typical costs associated with TV inspection.

DescriptionUnit CostUnitsLight Cleaning and TV Inspection\$1.75Linear FootHeavy Cleaning\$2.50Linear FootBypass Pumping\$1,600DayPolice Detail\$45.00Hour

Table 10-2: TV Inspection Cost Estimates

TV inspections costs provided in Table 10-2 above are based on contractor estimates dated January 2014.

Field inspection and office support is typically required throughout the entire program. The TV contractor requires highly detailed maps providing manhole numbers and locations to ensure correct manhole numbers are placed on the reports. Typically there are many questions that arise during a program like this and someone needs to be on call to assist and provide direction as necessary. Time for TV video and log review and preparation of a cost effective analysis with recommended rehabilitation should be prepared upon completion.

BETA highly recommends that all of the information collected during this program is added to the GIS to allow for tracking, operation and maintenance, and future coordination. This could include hyperlinking manhole inspection reports and TV logs to their respective features for quick reference in the future.

Table 10-3 identifies the recommended inspection priority for each subarea including the estimated cost for light cleaning and TV inspection. Recommendations for sewer infiltration rehabilitation should be made each year based on the results of the TV work.

Table 10-3: TV Inspection Priorities by Subarea

		1		1		I
Subarea	Year Last CCTV Inspected	2013 Excess Infiltration Ranking*	Inspection Priority 2014-2015	Inspection Priority 2015-2025	Inspection Priority 2025-2035	Total Linear Footage (ft)
1	2012	No	Low	Low	High	18,217
2	2005	No	Low	Moderate	Low	6,923
3		Yes	High	Low	High	3,340
4		Yes	High	Low	High	1,768
5		No	Low	Moderate	Low	7,104
6	2012	Yes	High	Low	High	3,520
7	2012	No	Low	Low	High	1,666
9		No	Low	Moderate	Low	1,016
10		No	Low	Moderate	Low	15,140
11	2012	Yes	High	Low	High	40,183
12		No	Low	Moderate	Low	27,673
13	2012	No	Low	Low	High	21,108
14	2012	Yes	High	Low	High	40,670
15	2012	No	Low	Low	High	32,068
16	2009	Yes	Low	High	Low	45,277
17		Yes	Low	High	Low	15,339
18		Yes	Low	High	Low	9,290
19-1	1997	Yes	High	Low	High	34,525
19-2		No	Low	Moderate	Low	7,875
20		Yes	High	Low	High	31,448
21	2004-2005	Yes	Low	High	Low	54,696
22	2012	Yes	High	Low	High	69,844
23		No	Low	Moderate	Low	19,054
24	2005	No	Low	Moderate	Low	23,861
25		No	Low	Moderate	Low	13,014
26	2012	No	Low	Low	High	34,183
27		Yes	High	Low	High	6,753
28		No	Low	Moderate	Low	4,829
29		No	Low	Moderate	Low	5,033
30	2012	Yes	Low	Low	High	8,925
31		No	Low	Moderate	Low	6,293
32	2012	Yes	High	Low	High	13,782
33	2009	No	Low	Moderate	Low	6,818
Projected TV Unit Price Total Linear Feet			\$1.75	\$2.00	\$2.25	
Sewer			245,835	214,538	362,002	
Total TV Cost			\$430,211	\$429,076	\$814,504	

10.5 Inflow Investigation

Several methods are typically used to locate sources of inflow. Smoke testing, dye testing, exterior house-to-house inspections, and sump pump inspections are some of the most common methods of locating inflow. An alternative to sump pump inspections is a sump pump amnesty program which has been used successfully in other communities. Investigations should be prioritized based on flow meter data indicating significant inflow volumes.

Needham should begin in sub-areas with the highest "rain as inflow percentages" or in sub-areas with the largest inflow volumes relative to subarea size, also considering the 1985-2013 inflow increase data identified in Section 7, and continue on throughout Town.

Table 10-4 lists subareas recommended for inflow investigation in order of initial priority.

Table 10-4: Inflow Investigation Priorities by Subarea

Priority	Subarea	Peak Inflow Corrected	Peak Inflow Corrected
THOTHY		for 1.7" Storm (GPD/ft)	for 1.7" Storm (GPD)
1	29	108,200	103,100
2	21	63,200	654,200
3	26 & 16	53,900	811,400
4	30	53,500	90,500
5	32 & 18	52,200	228,300
6	20	50,200	299,000
7	11	43,800	333,200
8	31	43,500	51,800
9	33	42,500	54,900
10	19-1	40,400	263,900
11	14	37,500	288,600
12	24	36,900	166,600
13	10	35,500	101,800
14	22	32,600	431,800
15	27	29,200	37,400
16	28	24,200	22,100
17	15	21,200	128,800
18	23	15,100	54,500
19	5	14,700	19,800
20	17	10,800	31,500
21	13	10,000	40,100
22	12	6,500	34,200

10.5.1 Smoke Testing

The smoke testing is typically conducted during periods of dry weather, low groundwater and when frost is not present. Typical smoke testing procedures are as follows:

- A manhole is opened and two to three non-toxic smoke candles are lit and placed into a bucket hanging from a blower.
- The blower is placed on the frame of the open manhole to blow air (and consequently, smoke) into the sewer system.
- Buildings along the sewer alignment are inspected to see if smoke introduced into the sewer system is visible.

The purpose of the smoke testing program is to identify open sources connected to the system that should not be connected. Examples of illicit sources include catch basins, roof leaders, or downspouts from roof drainage systems and yard and driveway drains. Smoke seen from these sources indicates a positive connection to the sewer and further action is required to remove this inflow source from the sewer system.

Smoke testing has been conducted in the majority of Subarea 15 in 1994 and in all of Subarea 19-1 in 2008. Neither inspection yielded significant results so smoke testing does not appear to be a cost effective method of location in Needham and is only recommended if new evidence is uncovered.

10.5.2 Building Inspections

The purpose of exterior building inspections is to identify potential sources of inflow coming from properties that discharge directly to Needham sewers. Building surveys are completed by identifying buildings along the alignment that have the potential to discharge to the sewer, and noting various information about the property, specifically:

- · Number of roof leaders on the building
- Number of roof leaders discharging over land/into the ground/into the foundation
- Visual evidence of yard drains and number (if applicable)
- Visual evidence of sewer cleanouts
- Other points of interest (listed as comments)

Exterior building inspections were conducted during both previous smoke testing campaigns in 1994 and 2008. Multiple suspect connections were detected mainly consisting of driveway drains and roof leaders. The complete list of previous exterior inspections can be found in Appendix H. 665 buildings were inspected in subareas 15 and 19-1.

BETA recommends focus on removal of confirmed inflow sources. The quickest and most inexpensive route to eliminate a significant amount of inflow is by having customers disconnect downspouts going into the foundation and allowing those downspouts to discharge to the

ground or route the discharges to the storm drainage system using new or existing on-site stormwater drainage systems.

10.5.3 Dye Testing

Dye testing typically involves identification of potential inflow sources to test (from building survey program / smoke testing program), introducing water and concentrated non-toxic dye into the potential source, and inspecting the downstream sewer manhole in the street for the presence of dye. The presence of dye within the sewer indicates that the potential source is directly connected to the sewer.

Typically dye tests are conducted in areas that had elevated inflow rates/volumes as evidenced in the flow meter data. Also, dye tests are only conducted on potential inflow sources that were not previously confirmed by positive smoke testing hits.

BETA recommends dye testing be conducted in subareas 15 and 19-1 at suspect sources highlighted in Appendix H. In addition, BETA recommends a pilot dye testing program be conducted in subareas with excessive inflow rates to determine the likelihood of success. Potentially 40 homes could be tested through all of the subareas noted in Table 10-3 at suspect sources. If some or many downspouts or yard drains are discovered to be connected to the sewer, the Town may want to consider expanding the program in these areas at that time.

10.5.4 Sump Pumps

Table 10-5 lists the confirmed sump pump sewer connections found during house-to-house inspections conducted in 2008. According to the MADEP Guidelines, each sump pump is presumed to contribute 3.0-6.0 gallons per minute, or 4,320 to 8,640 gallons per day. Using those estimates, the 11 sump pumps found to be connected to the sewer contribute a total of 47,520 to 95,040 gallons per day of inflow to the Needham sewer system.

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Table 10-b	Contirmed	Nimn	Dumn	SAMAR	Connections
Table 10-5.	COHILITIE	Julio	I UIIID	JUVUL	COLLICCTIONS

Address	Number of Sump Pumps	
21 Avalon Road	1	
14 Bellevue Drive	2	
50 Frances Street	1	
74 Henderson Street	2	
530 High Rock Street	2	
35 Marked Tree Road	1	
107 Marked Tree Road	1	
277 Marked Tree Road	1	

BETA recommends that Needham prepare a letter to each homeowner that has a sump pump connected to the sewer. The letter should include a description of the sewer use regulations, identify findings from the last inspection, request a plan of rectification, set a completion

deadline, and address the penalty for non-compliance. Letters should be sent via certified mail. A follow up inspection should also be conducted to determine if further action needs to be taken.

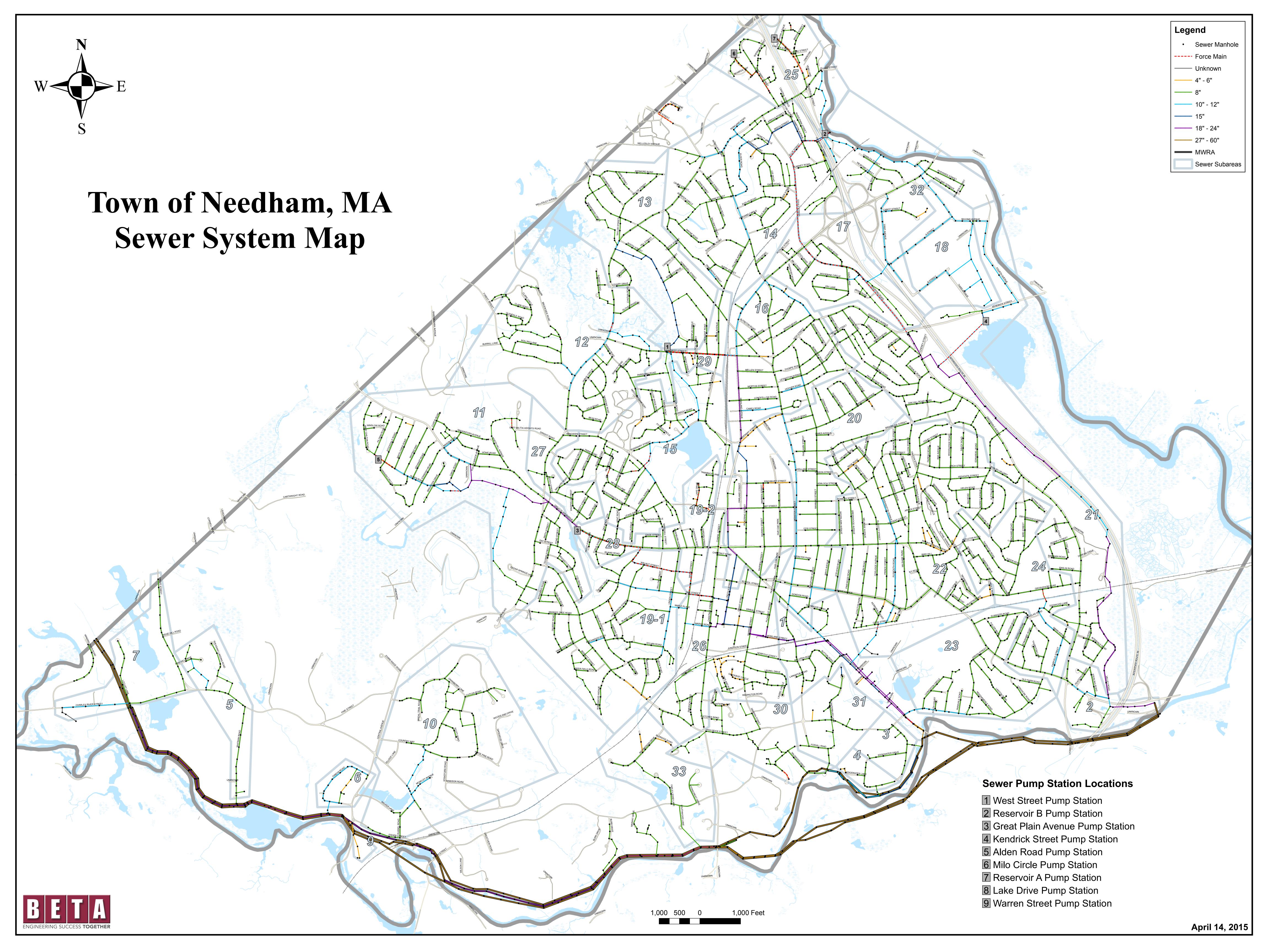
BETA recommends that sump pumps found to be either soft or hard piped to the sewer system be disconnected and allowed to either discharge to the ground surface or rerouted to the stormwater drainage system. There is a risk that allowing downspouts and sump pumps to discharge to the ground surface could lead to recharging of the groundwater to some degree and thus offset some of the benefit of inflow reduction. However, the greater likelihood is that much of this diverted inflow would not recharge the groundwater due to runoff of the inflow to the stormwater drainage system during all seasons and through vegetative uptake of inflow during the growing season.

BETA recommends that the Town consider a sump pump amnesty program to identify sump pumps connected to the sewer system.

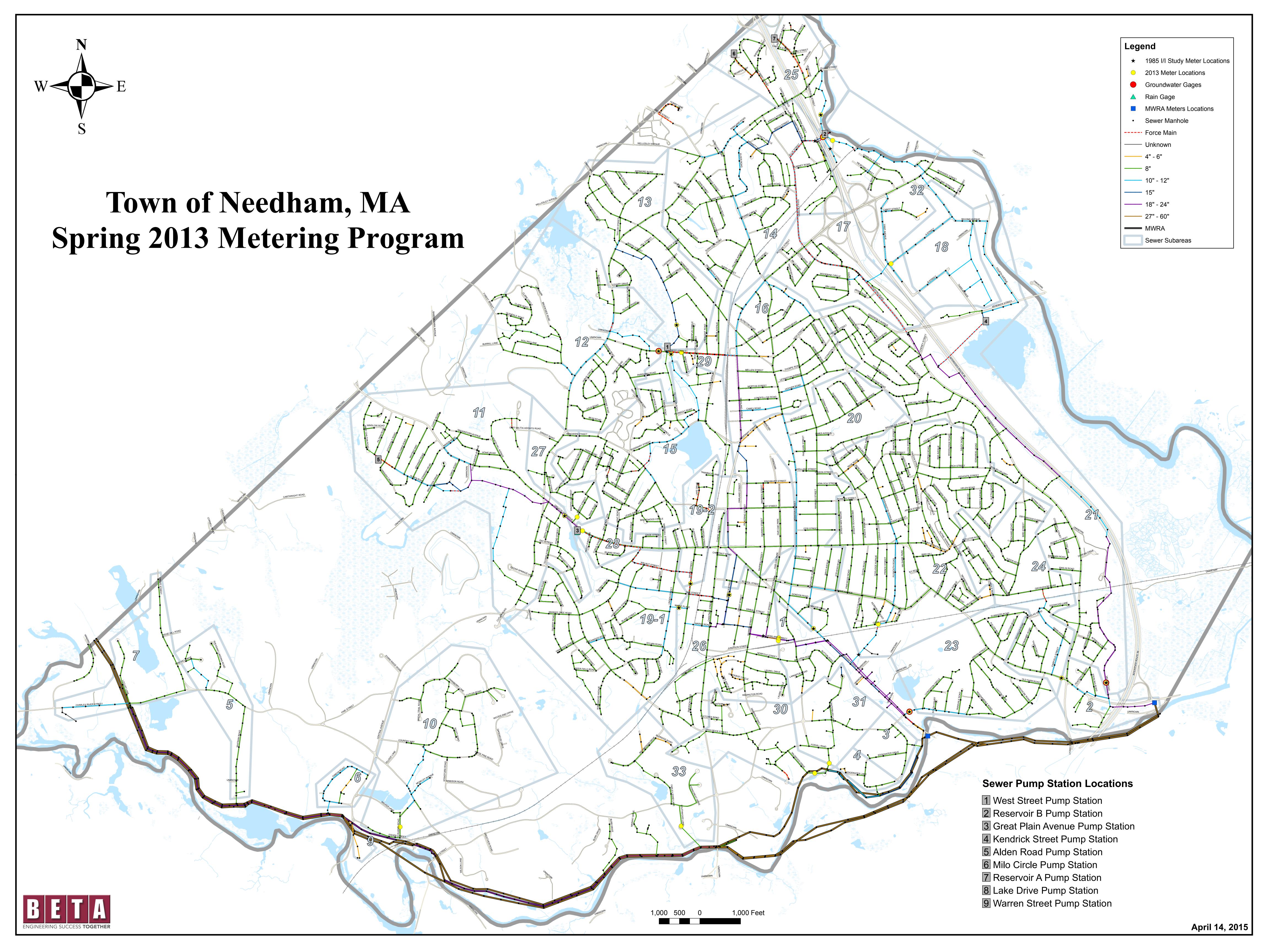
10.6 Long Term Flow Metering

BETA recommends that the Town continue monitoring flows at the permanent and temporary meter sites especially following infiltration rehabilitation or inflow disconnection work flow to evaluate the effectiveness of removal and track seasonal and annual trends. The two temporary meters should be relocated on a regular basis to ensure all suspect areas are evaluated. Current meter locations are shown in Appendix J.

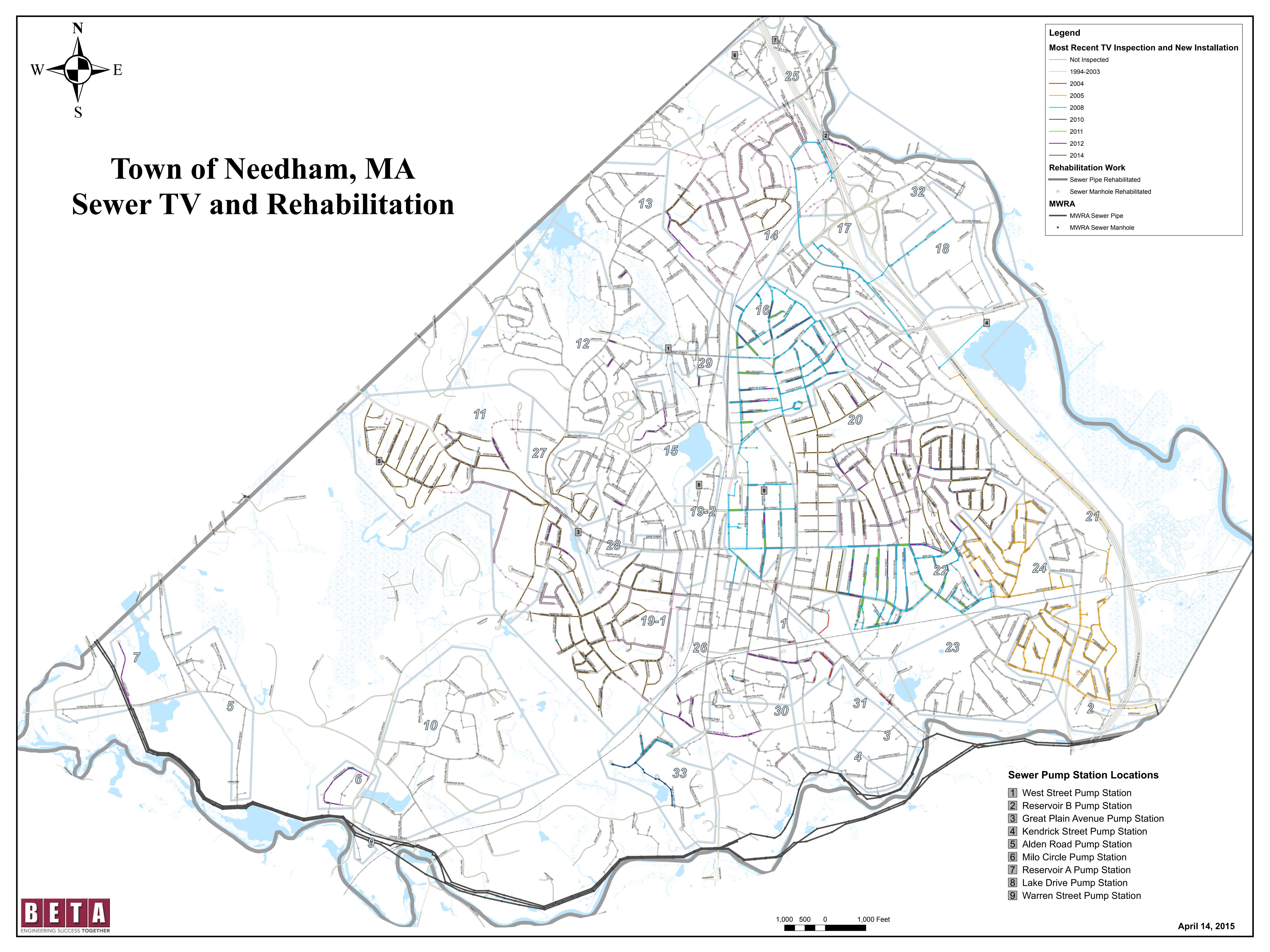
Appendix A Sewer System Map



Appendix B Spring 2013 Metering Program



Appendix C Previous TV and Rehabilitation Work



Appendix D Rainfall Data – Daily 15-minute, Daily Summary and Historic

Rain Gauge, Needham, MA Daily Rainfall Table

Date/Time	Peak Hourly Rainfall (in)	Peak 15-Minute Rainfall (in)	Time of Peak 15- Minute Rainfall	Total Rainfall (in)
5/1/2013 0:00	0	0	-	0
5/2/2013 0:00	0	0	-	0
5/3/2013 0:00	0	0	-	0
5/4/2013 0:00	0	0	-	0
5/5/2013 0:00	0	0	-	0
5/6/2013 0:00	0	0	-	0
5/7/2013 0:00	0	0	-	0
5/8/2013 0:00	0.21	0.12	11:15:00 PM	0.22
5/9/2013 0:00	0.23	0.10	12:00:00 PM	0.55
5/10/2013 0:00	0.02	0.01	4:45:00 AM	0.03
5/11/2013 0:00	0.02	0.01	7:00:00 PM	0.04
5/12/2013 0:00	0.02	0.01	11:00:00 AM	0.06
5/13/2013 0:00	0	0	-	0
5/14/2013 0:00	0	0	-	0
5/15/2013 0:00	0.01	0.01	6:00:00 PM	0.02
5/16/2013 0:00	0	0	-	0
5/17/2013 0:00	0	0	-	0
5/18/2013 0:00	0	0	-	0
5/19/2013 0:00	0.05	0.02	9:15:00 PM	0.10
5/20/2013 0:00	0.02	0.01	6:30:00 AM	0.04
5/21/2013 0:00	0.14	0.11	7:00:00 PM	0.15
5/22/2013 0:00	0.06	0.04	4:30:00 AM	0.12
5/23/2013 0:00	0.13	0.07	10:15:00 PM	0.17
5/24/2013 0:00	0.19	0.07	5:15:00 PM	0.63
5/25/2013 0:00	0.12	0.05	4:15:00 AM	0.60
5/26/2013 0:00	0.02	0.01	8:45:00 AM	0.04
5/27/2013 0:00	0	0	-	0
5/28/2013 0:00	0	0	-	0
5/29/2013 0:00	0.36	0.18	10:15:00 PM	1.06
5/30/2013 0:00	0	0	-	0
5/31/2013 0:00	0	0		0

Total Rainfall (in)

3.83



_	_					Mar-			_		_	_			_	Dec-
Day	January	Jan- Snow	Feb	Feb-Snow	March	Snow	April	May	June	July	Aug	Sept	October	Nov	Dec	Snow
1				+			0.1			0.53			1	0.09	4.04	ļ
3			0.00	2.5	0.00	40	0.7	0.01		1.36 0.02			0.00		1.01	
4			0.29	3.5	0.98	10	0.7	0.01 0.01		0.02			0.98			
5	0.05							0.61	0.01				+		0.65	3"
6	0.03						1.24	0.35	0.01						0.03	3
7	1.27	1.5			0.09		1.24	0.02		1.35			0.5			1
	1.21	1.5			0.03			0.02		0.13			0.5			+
8 9					0.66	2		0.23	0.08	0.10			0.28		1.33	3"
10					0.00		0.35	0.20	0.00		0.08		0.20		1.00	
11	0.53	5	0.15		0.18		0.37			0.67	0.18	0.67	1			
12	0.00	Ŭ	0.10		0.10		0.01		1.13	0.01	0.10	1.42	1			
13											0.09		0.25		0.77	
14								0.1	0.45					2.65		
15									0.03				0.27	0.03		
16 17										0.16						
17								0.1								
18	0.62	8	0.43	2			0.05		0.74				1.04			
19	0.33	6			0.07				0.07							
20														0.51	0.65	12"
21 22							0.5		0.4	1.9						
22			0.81	trace			0.6		0.41		0.37					
23							0.31	0.2	0.17				0.25	0.23		
24								0.6					1.03			ļ
25									0.1							
26					0.28				0.18	0.05				0.02		ļ
27			0.11					0.15				0.4	0.12	0.72	0.55	
28 29	1.45	4.5						0.03	0.28			0.55	0.8		0.1	
29					0.69			0.28			1.64					
30					0.25				0.2	0.44				0.23		
31								0.1		0.81					0.13	2"
Total	4.25	25"	1.79	5.5"	3.2	12"	4.22	2.79	4.25	7.37	2.36	3.04	5.52	4.48	5.19	20"

Month	Total
January	4.25
February	1.79
March	3.2
April	4.22
May	2.79
June	4.25
July	7.37
August	2.36
September	3.04
October	5.52
November	4.48
December	5.19
2009	48.46



						Mar-										Dec-
Day	January	Jan- Snow	Feb	Feb-Snow	March	Snow	April	May	June	July	Aug	Sept	October	Nov	Dec	Snow
1					0.21	trace			0.66				0.84		0.64	
2	0.2	4"									0.06					
3	0.35	6"	0.06	0.5"		trace		0.03	0.13			0.62				
4					0.13	trace							0.48	1.24		
5									0.74		1.5		0.34			
6									0.54				1.13			
7																
8	trace	trace						0.95				0.26		1.35		
9							1.13		0.28		0.09			0.24		
10			0.19	2"					0.07	1.35				0.03		
11					0.04										0.1	
12									0.27	trace					2.15	
13					2.45					0.16		0.03				
14					2.66				0.02	0.07					0.02	trace
15					1.27			0.07			0.22		1.88			
16 17			0.51	5"			0.47			0.2		0.35				
							0.11							0.95		
18	1.78	4"					0.16	1.45								
19	0.4	1"						0.16								
20									0.37							
21 22										0.01			0.05		0.15	2"
22							0.05			0.47	0.78				0.36	3"
23			1.31		1.55				0.12	0.13	0.73					
24	0.02		1.17		0.41				0.13		1.3		0.01			
25	1.52		1.77								1.57					
26			0.12		0.25		0.12							0.16	1.20	16"
27			0.07	trace			0.17	0.24				0.2	0.18			
28	0.11						0.12					1.1				
28 29					3.1			0.13		0.18						
30					2.20											
31					0.06											
Total	4.38	15"	5.20	7.5"	14.33	trace	2.33	3.03	3.33	2.57	6.25	2.56	4.91	3.97	4.62	21"

Total
4.38
5.20
14.33
2.33
3.03
3.33
2.57
6.25
2.56
4.91
3.97
4.62
57.48



						Mar-		April-	працоп						Oct-			Dec-
Day	January	Jan- Snow	Feb	Feb-Snow	March	Snow	April	Snow	May	June	July	Aug	Sept	October	Snow	Nov	Dec	Snow
1	•		0.5	8			0.8	1.5		0.8			•	0.19				
2	0.12		0.92	4								0.35		0.03				
3																		
4							0.4		0.51					1.06				Ī
5			0.3				0.14							0.01				
6									0.01		0.01		1.28				0.20	
7					0.92				0.93			1.98	0.56				2.67	
8	0.07	1	0.31	0.5								0.06	1.71					
9										0.74	0.64	2.00						
10																0.97		
11					0.59		0.02			1.18								
12	1.69	16							0.08	0.12								
13							1.38				0.38			1.24				
14												0.21		0.54				
15									0.64			1.36	0.18				0.04	
16					0.64		0.35		0.03							0.9		
17							1.15		0.45	0.07				0.01		0.16		
18	1.16	4	0.09						0.24		0.02							
19	0.1	trace					0.17		0.27			0.52		1.94				<u> </u>
20									0.01				0.19	0.02				
21	0.48	6	0.05	0.5	0.38	0.5			0.02			0.27					0.27	<u> </u>
22										1.28			0.03			1.55		
23							0.54		0.04	0.52	0.22		1.23				0.70	
24					0.01	trace	0.01			0.08	0.02							<u> </u>
25	0.08	1.5	1.85							0.55	0.25	0.15						
26							0.02				0.02			0.03				
27	0.88	12	0.4	3								2.62		1.12			0.42	<u> </u>
28			0.79				0.01					2.54						
29										0.1			1.57	1.24	3"			
30														0.28		1		
31					0.31													
Total	4.58	40.5"	5.21	16"	2.85	0.5"	4.99	1.5"	3.23	5.44	1.56	12.06	6.75	7.71	3"	4.58	4.30	

Month	Total
January	4.58
February	5.21
March	2.85
April	4.99
May	3.23
June	5.44
July	1.56
August	12.06
September	6.75
October	7.71
November	4.58
December	4.30
2011	63.26

Hurricane Irene



						Mar-		April-								Nov-		Dec-
Day	January	Jan- Snow	Feb	Feb-Snow	March	Snow	April	Snow	May	June	July	Aug	Sept	October	Nov	Snow	Dec	Snow
1	0.03				0.66		0.22		0.88	0.01		0.28					0.01	
2									0.07	0.66	0.06			0.10				
3					0.05				0.03					0.05				
4										0.04	0.60		0.51				0.02	 '
5										0.02		0.16	0.62	0.05				 '
6										0.02				0.02				<u> </u>
7									0.07	0.65				0.13	0.49	3.5		<u> </u>
8					0.04				0.19				0.49					<u> </u>
9									1.62					0.04			0.24	1
10									0.08			0.79		0.19			0.10	
11			0.07	Т														
12	1.44						0.10							0.02				1
13	0.03				0.16					0.62					0.08			
14									0.74	0.03				0.12				
15							0.02		0.52			1.08	0.22					
16					0.04									0.22			0.50	
17	0.29	3"	0.10														0.74	·
18											2.07	0.22	1.56				0.22	·
19														1.36				·
20	0.08	2.5"																·
21	0.22	4"										0.01					0.92	
22							2.84		0.38	0.40			0.10					
23	0.13				0.01		0.82		0.24	0.52	0.11							
24			0.67															
25										0.84							0.02	Т
26	0.54										0.01						1.50	
27	0.66														0.1	0.5	1.11	Т
28					0.06						1.44	0.49						
29			0.46	2"						0.04			0.90	2.37			0.53	9"
30					0.10								0.41	1.27				
31					0.06						0.43		****					
Total	3.42	9"	1.30	2"	1.18	0	4.00	0	4.82	3.85	4.72	3.03	4.81	5.94	0.67	4	5.91	9"

Month	Total
January	3.42
February	1.30
March	1.18
April	4.00
May	4.82
June	3.85
July	4.72
August	3.03
September	4.81
October	5.94
November	0.67
December	5.91
2012	43.65



						Mar-		April-								Nov-		Dec-
Day	January	Jan- Snow	Feb	Feb-Snow	March	Snow	April	Snow	May	June	July	Aug	Sept	October	Nov	Snow	Dec	Snow
1							0.08				0.01		2.58		0.16		0.10	
2													0.18					
3			0.01	Т	0.01					0.53		0.15						
4														0.58				
5			0.04										0.06				Т	
6					0.2									0.28				
7										3.84				0.05	0.26		0.15	
8			1.85	27"	1.52	18"			0.20			0.14						
9							0.09		0.29			1.38					0.57	0.5"
10							0.13			1.30	0.06		0.05	0.02			0.33	1"
11			0.27				0.35			0.26	0.31							
12	0.16				0.48		0.61		0.06		0.03		0.63		0.16			
13	0.02									1.92			0.06					
14										0.21								
15									0.01								0.98	8"
16	0.45	3"											0.03					
17			0.18							0.43							0.50	6"
18				2"						0.82				0.03	0.30			
19			0.35		1.16													
20	0.03	T																
21									0.48									
22													0.48		0.19			
23			0.23	Т			0.13		0.20		1.49						0.76	
24			0.86	23					0.19	0.05	0.07							
25							0.03		1.00	-	1.58							
26									0.20		0.17			0.02			0.06	
27			1.5							0.30		0.12			2.19			
28	0.20	1"							1.10	0.02								
29	0.09										0.36		0.01	0.02			1.37	
30										0.02								
31	0.65				0.07													
Total	1.60	4"	5.29	32"	3.44	18"	1.42	0	3.73	9.70	4.08	1.79	4.08	1.00	3.26	0	4.82	15.5"

Month	Total
January	1.60
February	5.29
March	3.44
April	1.42
May	3.73
June	9.70
July	4.08
August	1.79
September	4.08
October	1.00
November	3.26
December	4.82
2013	44.21

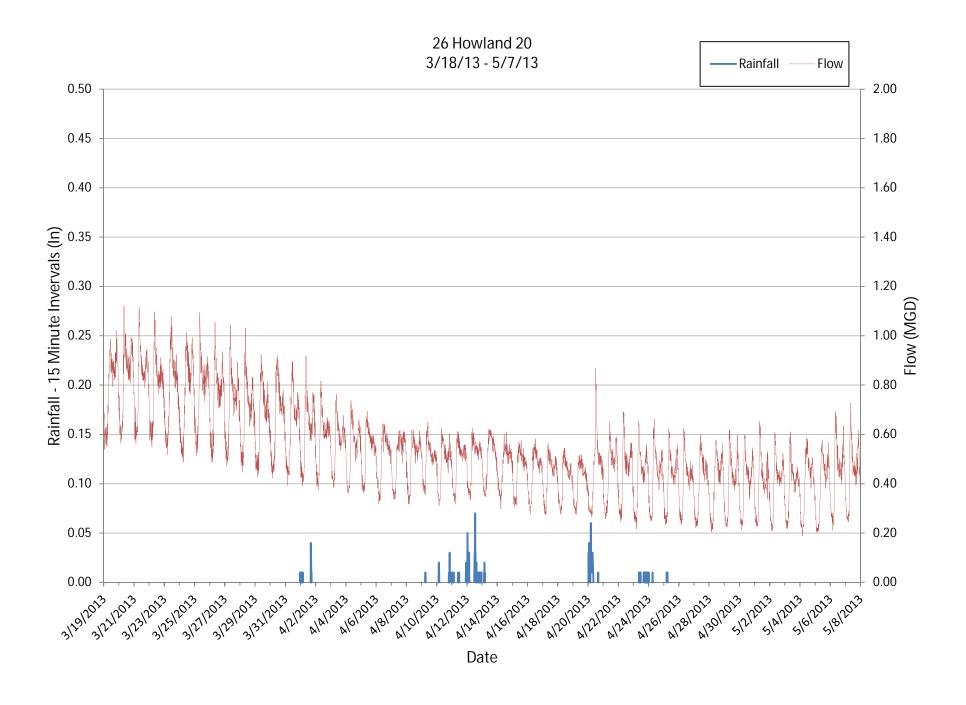


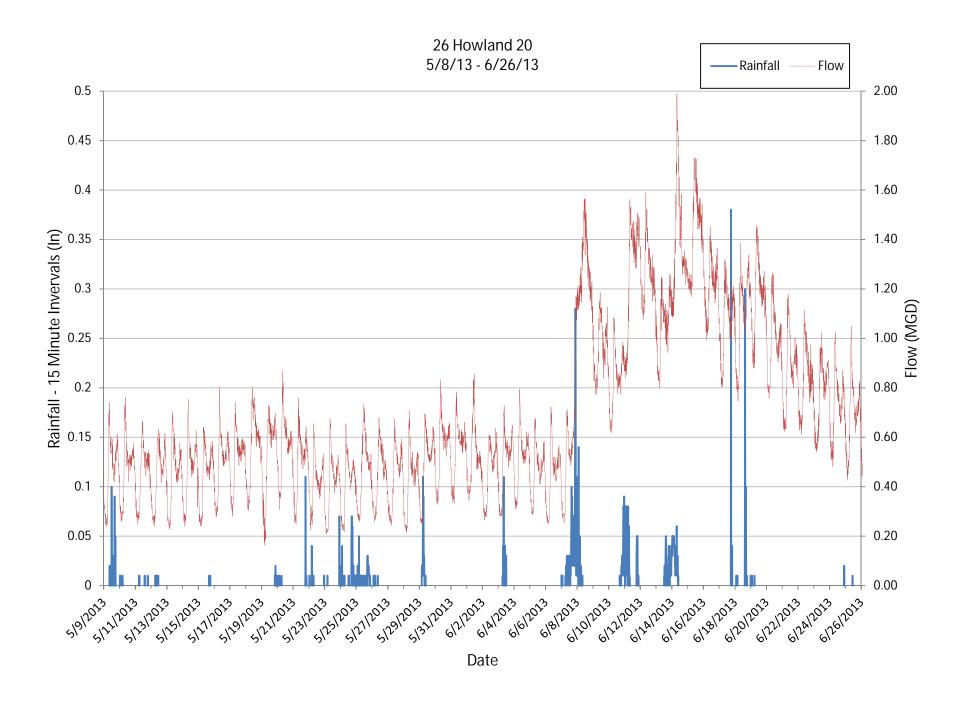
						Mar-		April-	•							Nov-		Dec-
Day	January	Jan- Snow	Feb	Feb-Snow	March	Snow	April	Snow	May	June	July	Aug	Sept	October	Nov	Snow	Dec	Snow
1									0.11					1.33	0.62		0.02	
2	0.67	12"	0.02										0.55	0.06	0.10			
3			0.27	2.5"						0.18	0.25	0.04					0.50	
4									0.01	0.61	1.84			0.23				
5			0.92	10"			0.41											
6	0.38											0.05	0.09		0.52		1.27	
7																		
8							0.66							0.09			2.93	
9			0.04	Т					0.08								0.16	
10	0.02				0.01				0.02	0.01							0.05	
11	0.65													0.35				
12							0.13											
13			1.76	10"	0.48					1.04		1.49	0.18					
14	0.79				0.07						1.07				0.38			
15			1.08	8"			1.88				0.05							
16									0.72		0.77	0.03		0.63				
17									0.42	0.17					1.54	0.50	0.35	
18	0.40	3"	0.52	4"						0.03				0.13			0.03	
19									0.04									
20			0.15		0.31													
21	0.31	5"	0.23										0.47					
22					0.09				0.27			0.04		3.97				
23							0.65							0.78				
24					0.01										0.43		0.28	
25									0.10								0.57	
26										0.64		0.03			1.48	2"	0.19	
27	0.02						0.32		0.67		0.64				0.29			
28									0.05		0.85							
29					1.48									0.05			0.03	
30				1	2.32		1.31		0.09				0.11	1				
31				1	0.12							0.27		1				
Total	3.24	20"	4.99	34.5"	4.89	18"	5.36	0	2.58	2.68	5.47	1.95	1.4	7.62	5.36	2.5"	6.38	

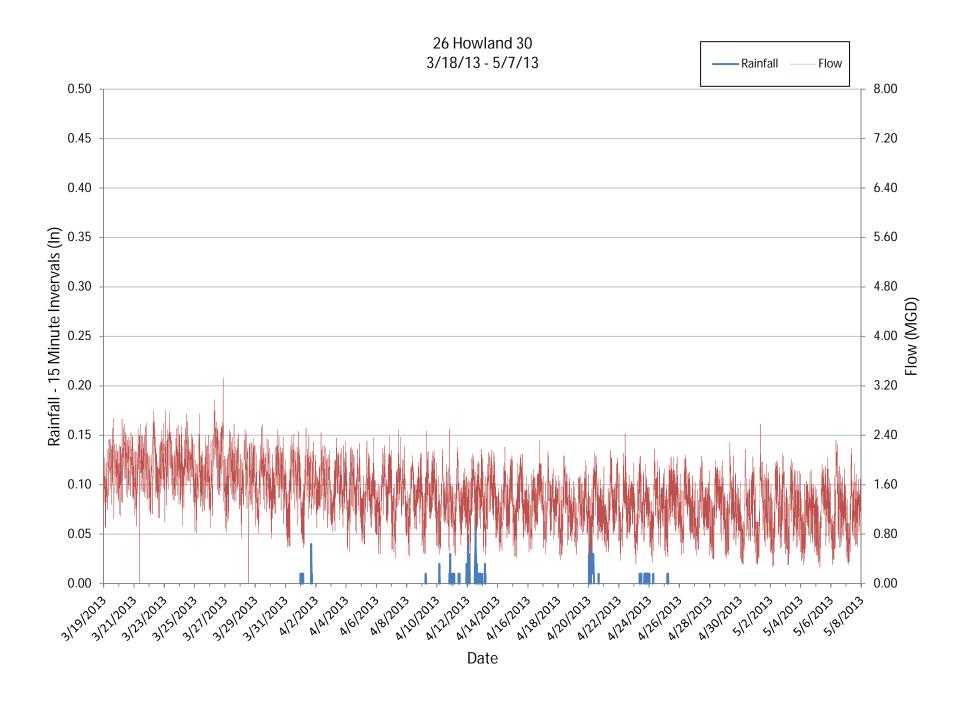
Month	Total
January	3.24
February	4.99
March	4.89
April	5.36
May	2.58
June	2.68
July	5.47
August	1.95
September	1.40
October	7.62
November	5.36
December	6.38
2014	51.92

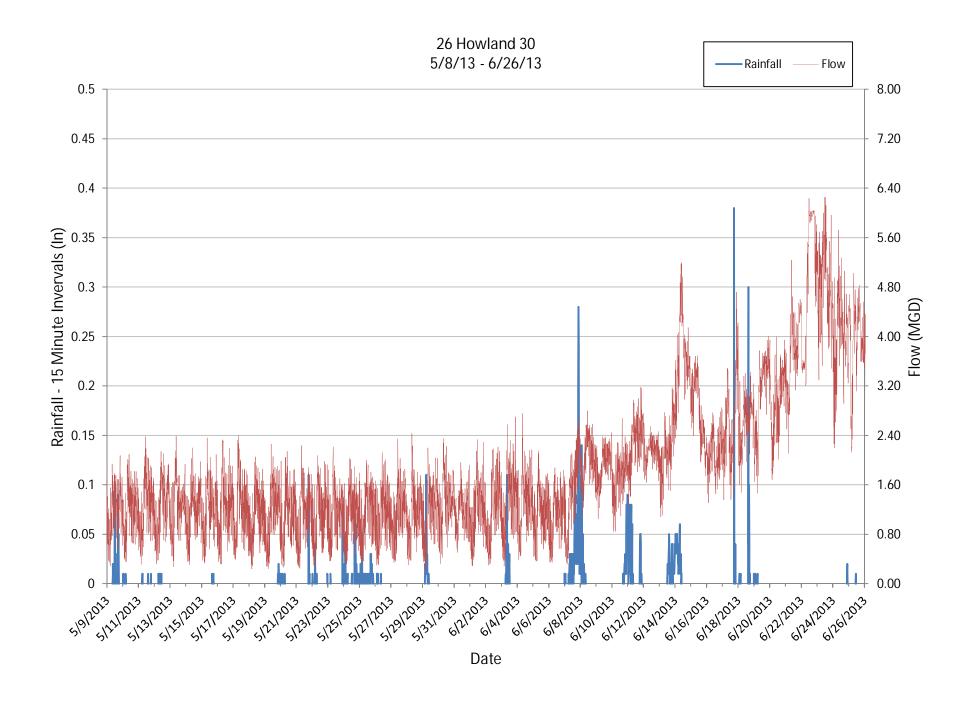


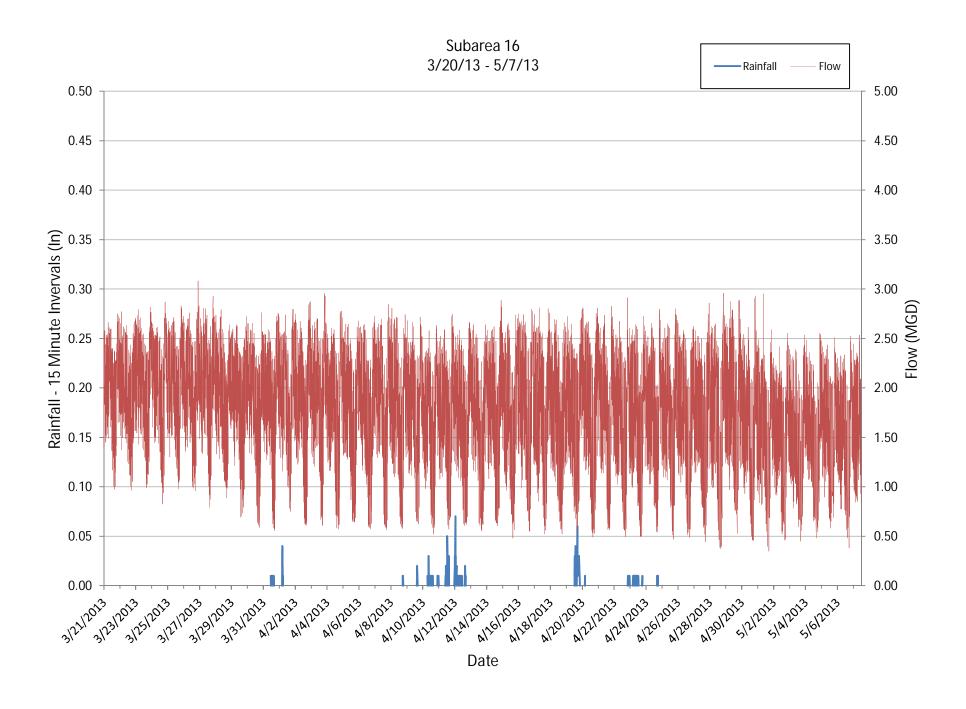
Appendix E Raw Meter Data Flow Curves

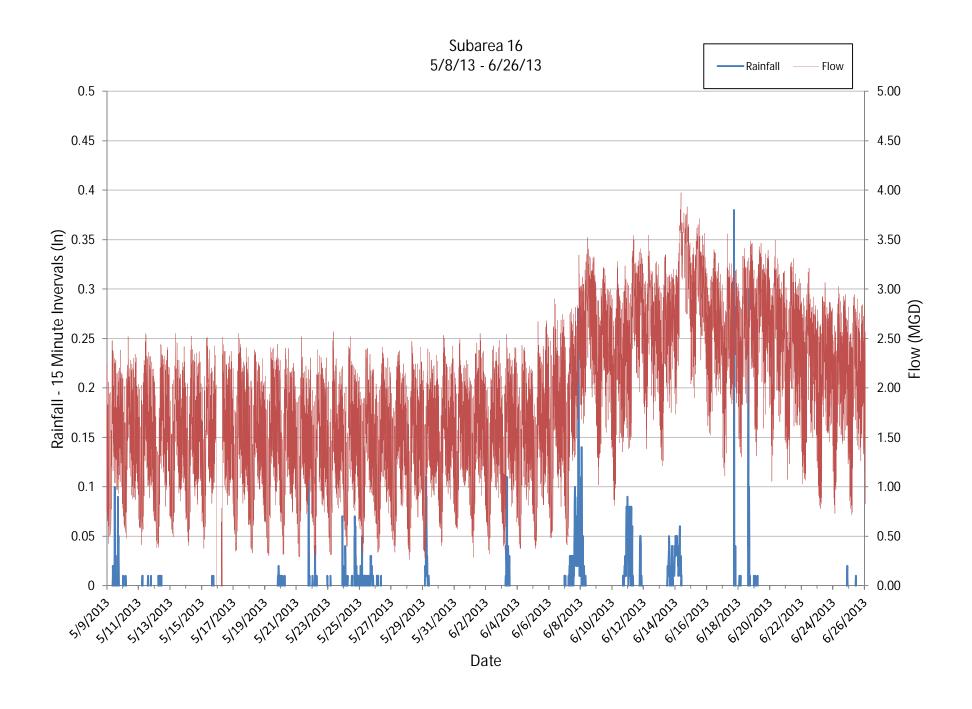


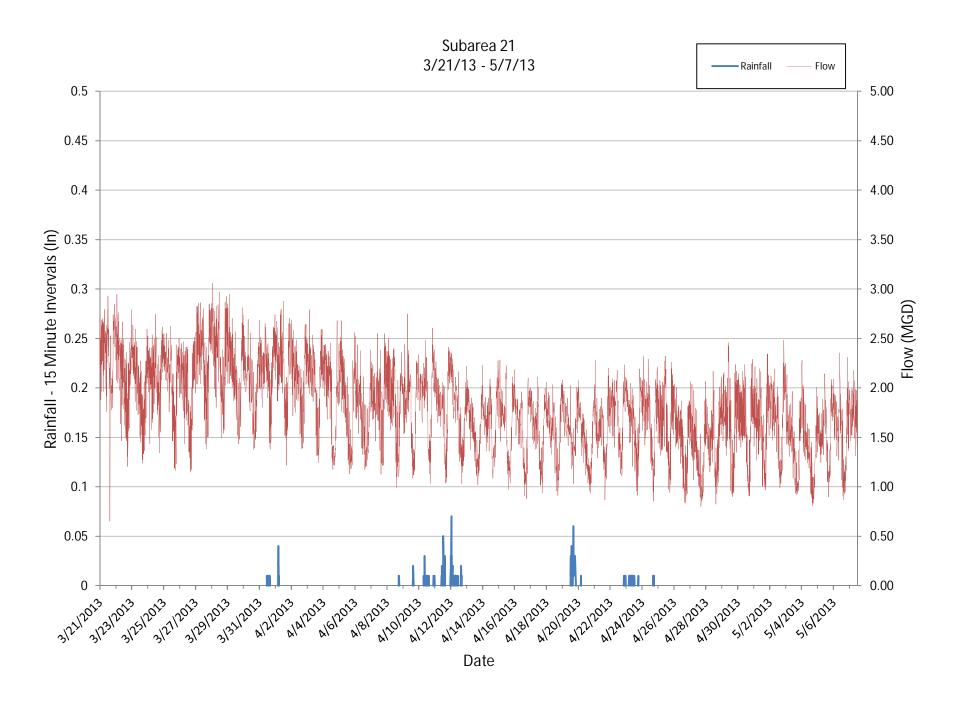


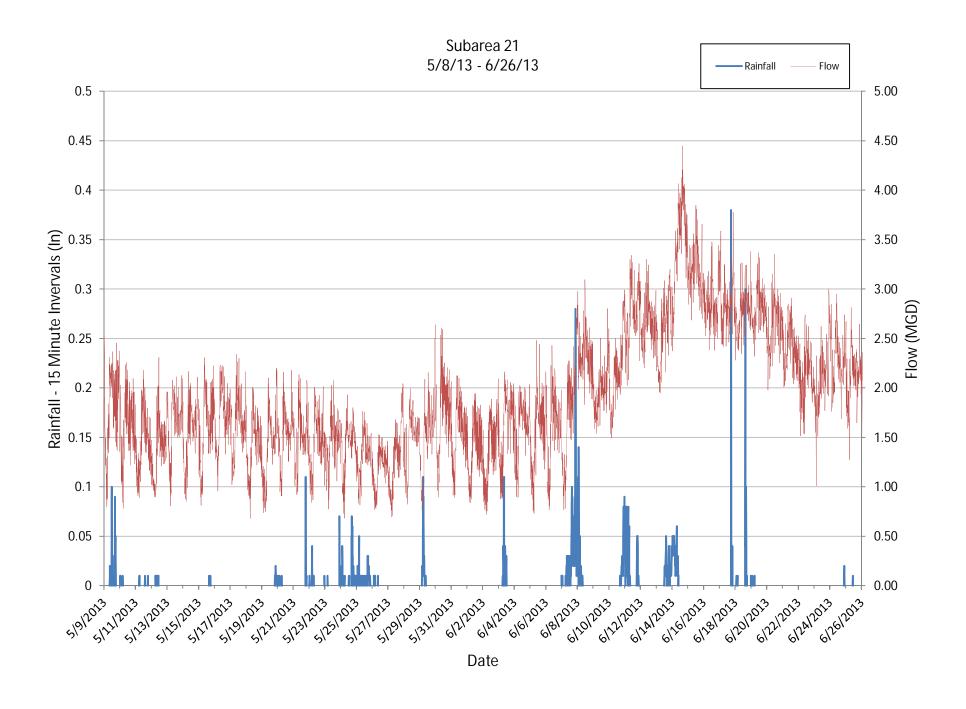


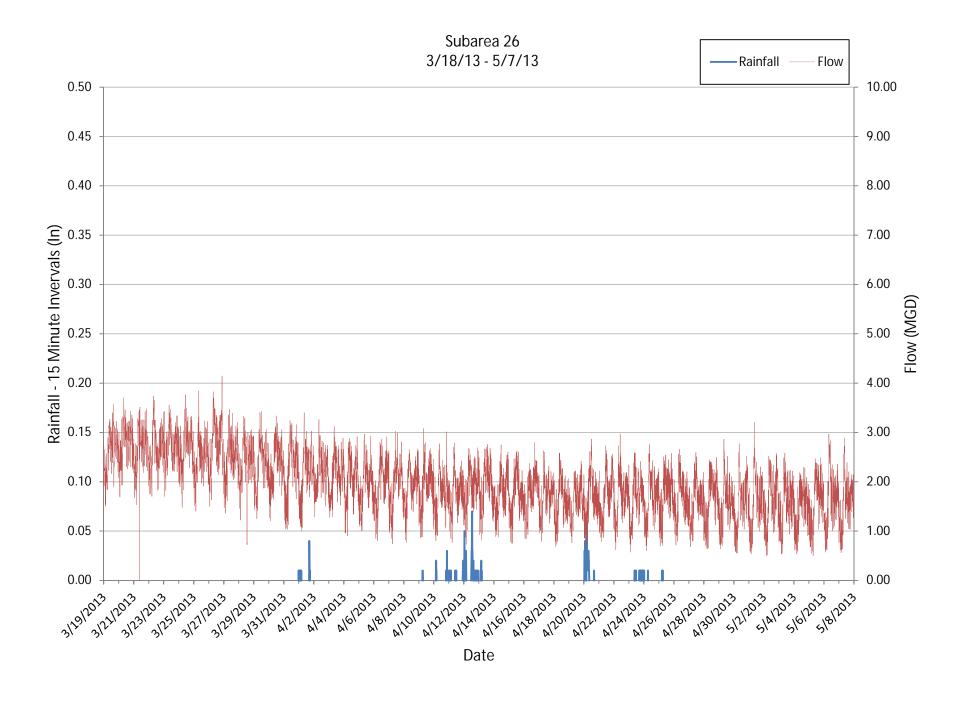


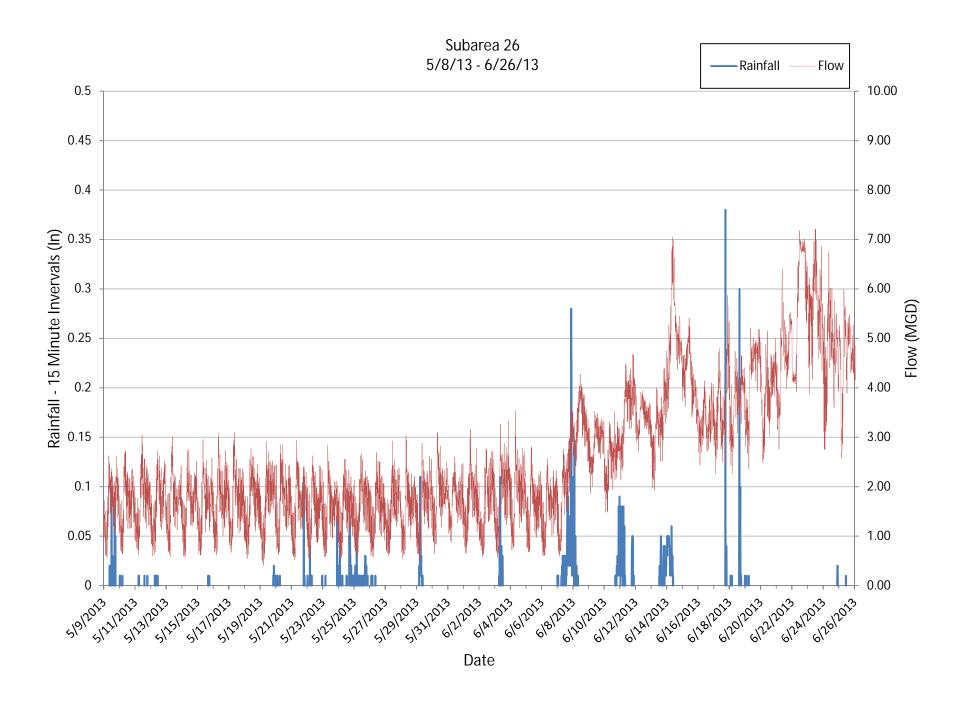


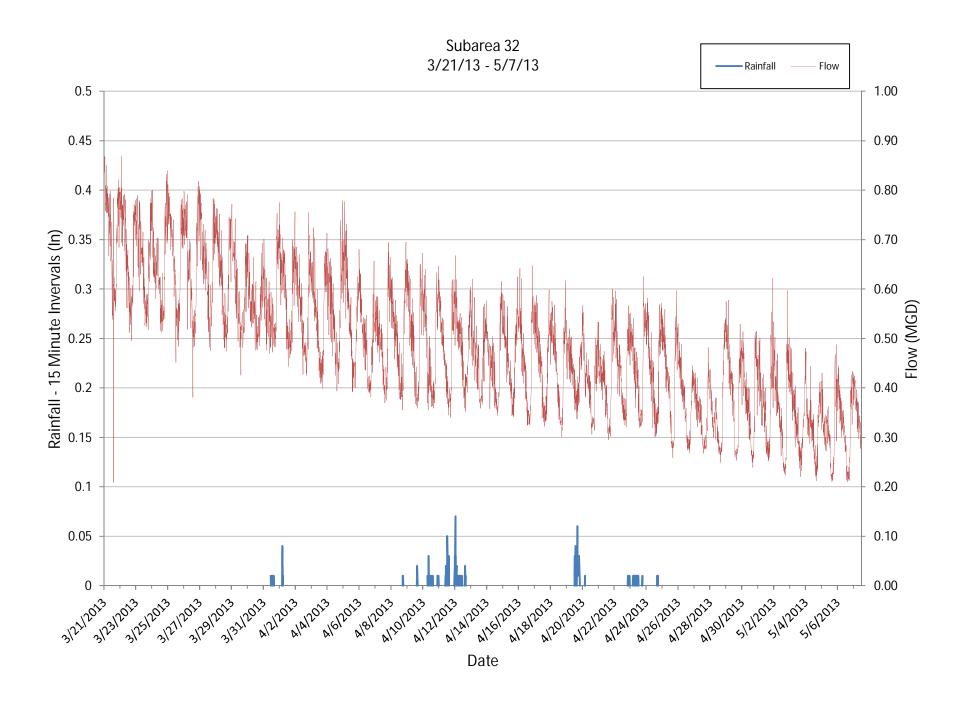


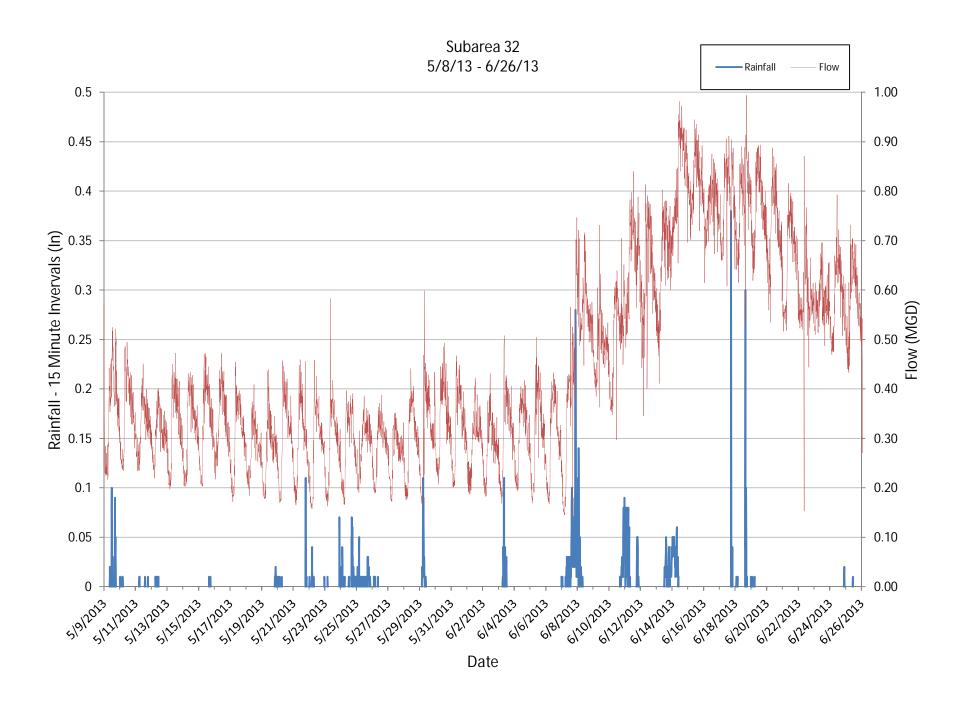




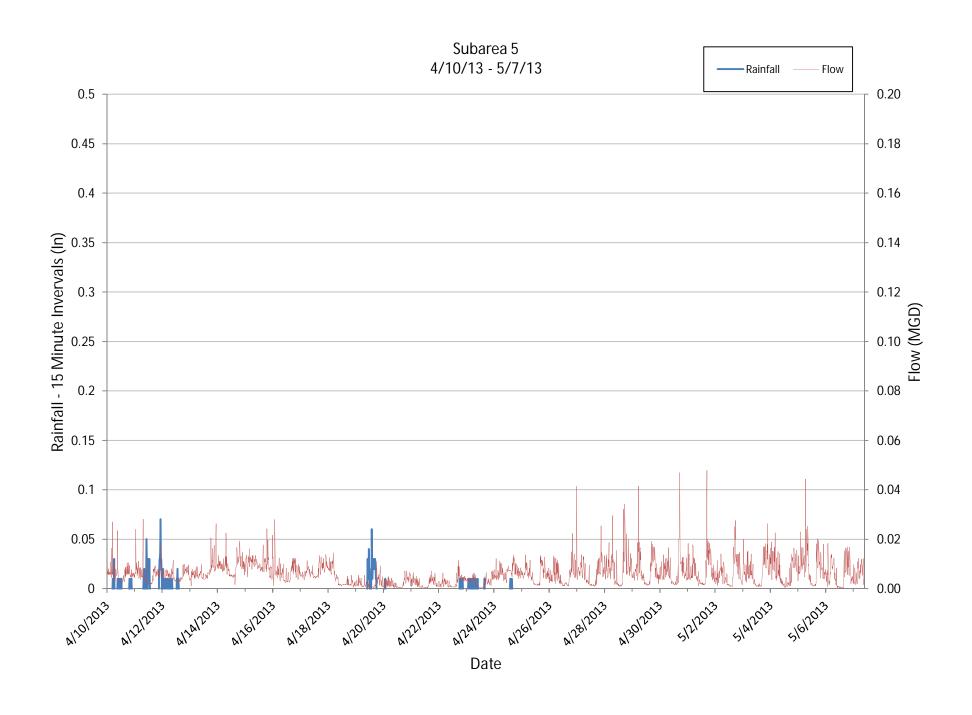


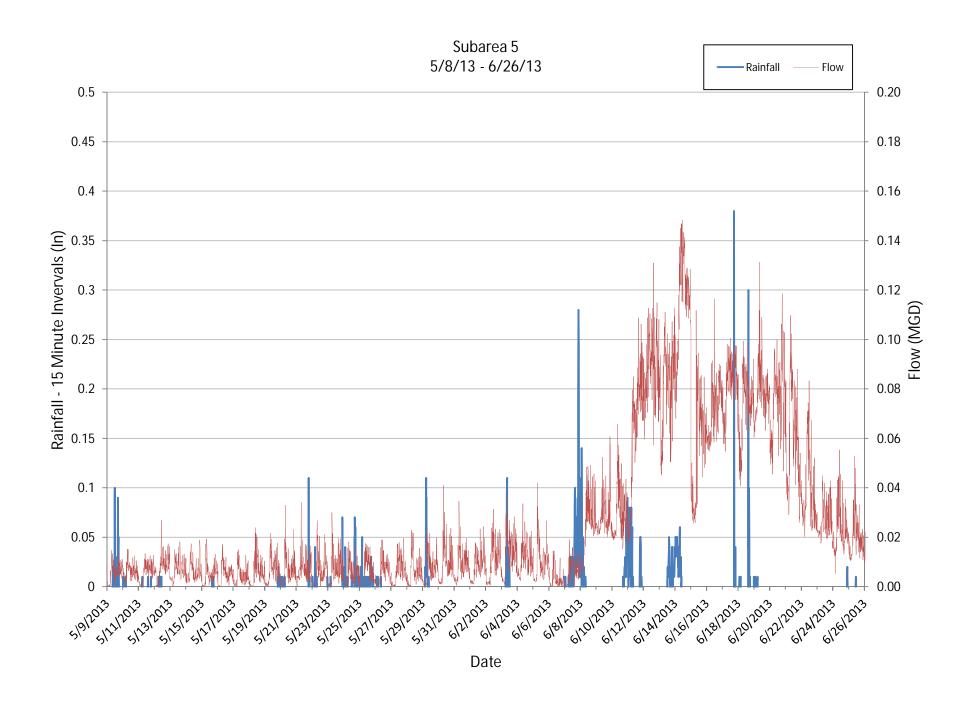


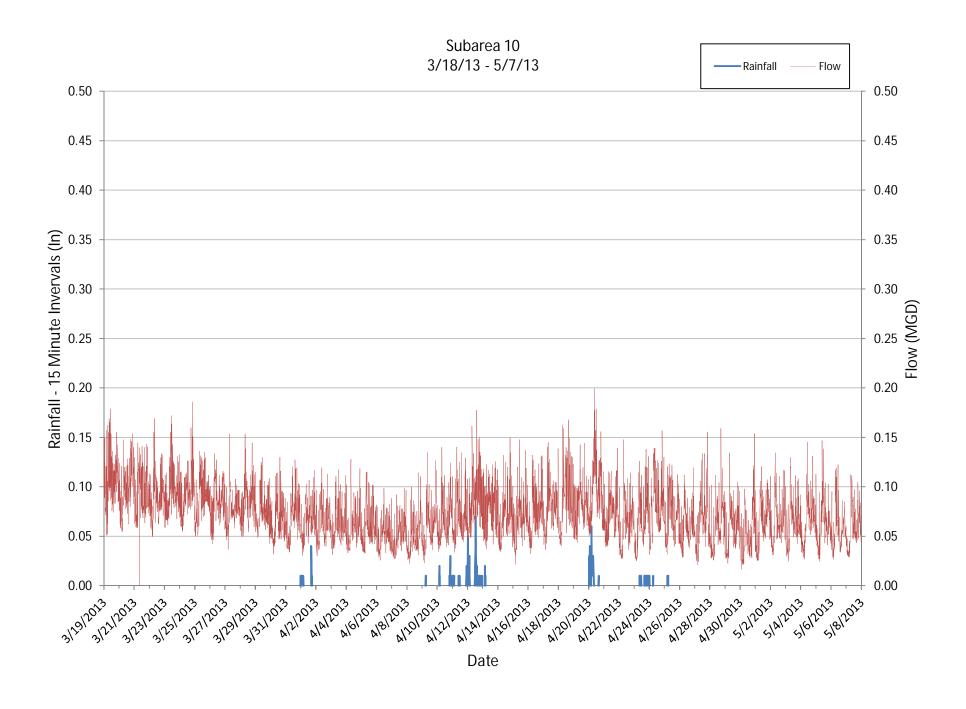


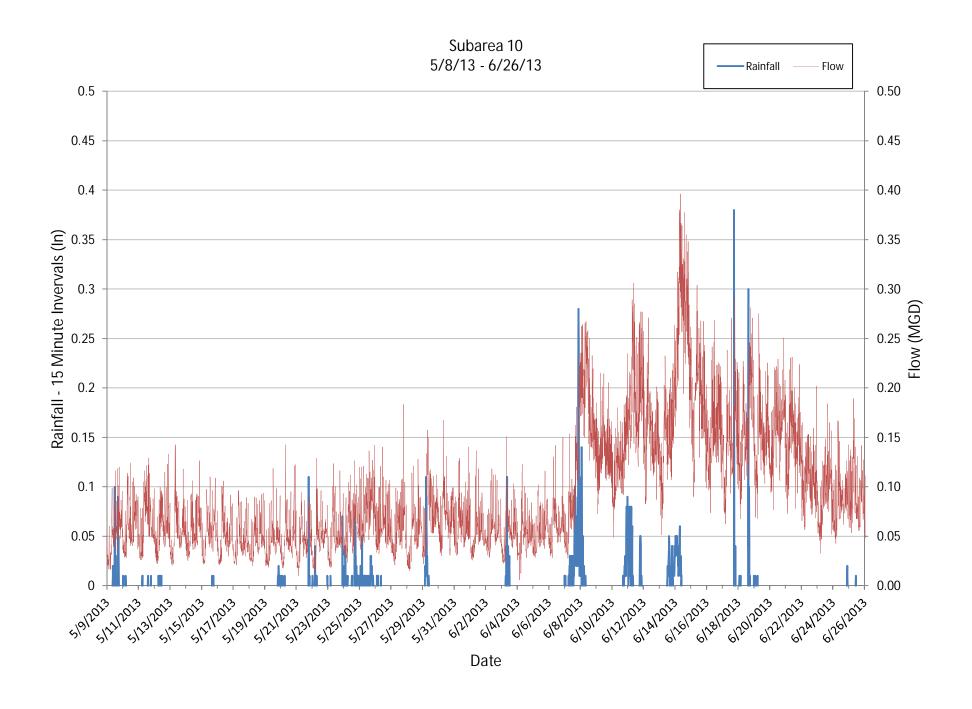


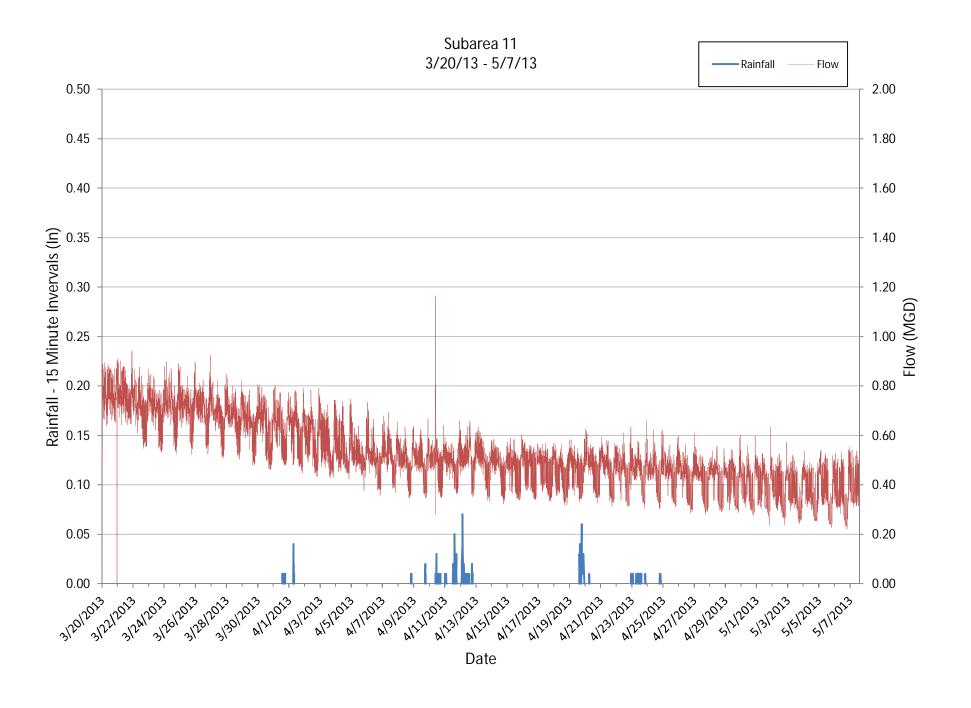
Appendix E Subarea Flow Curves

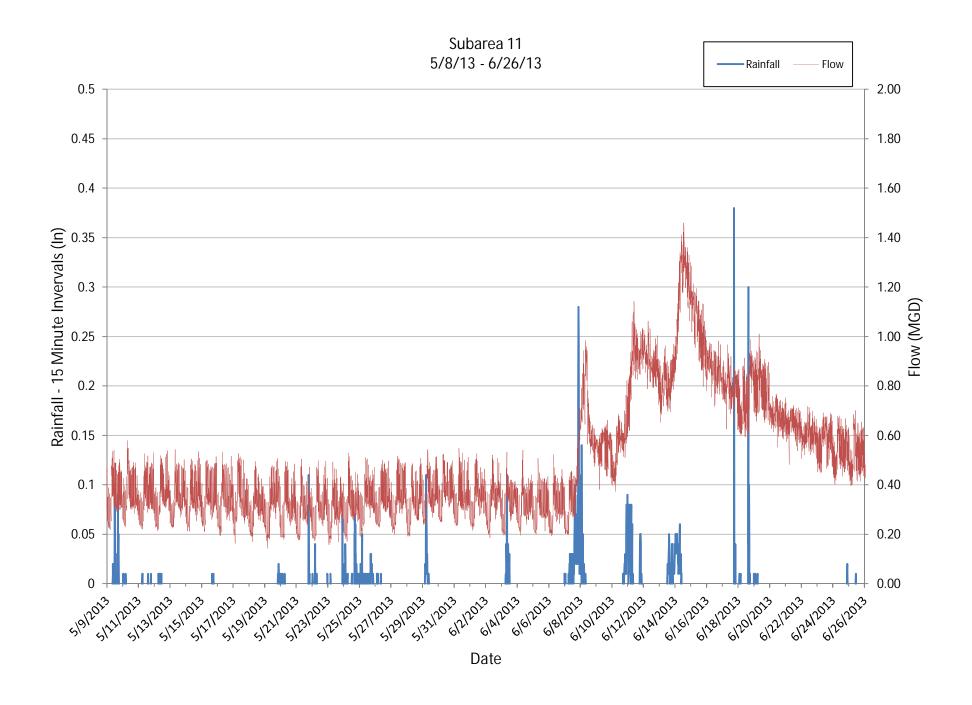


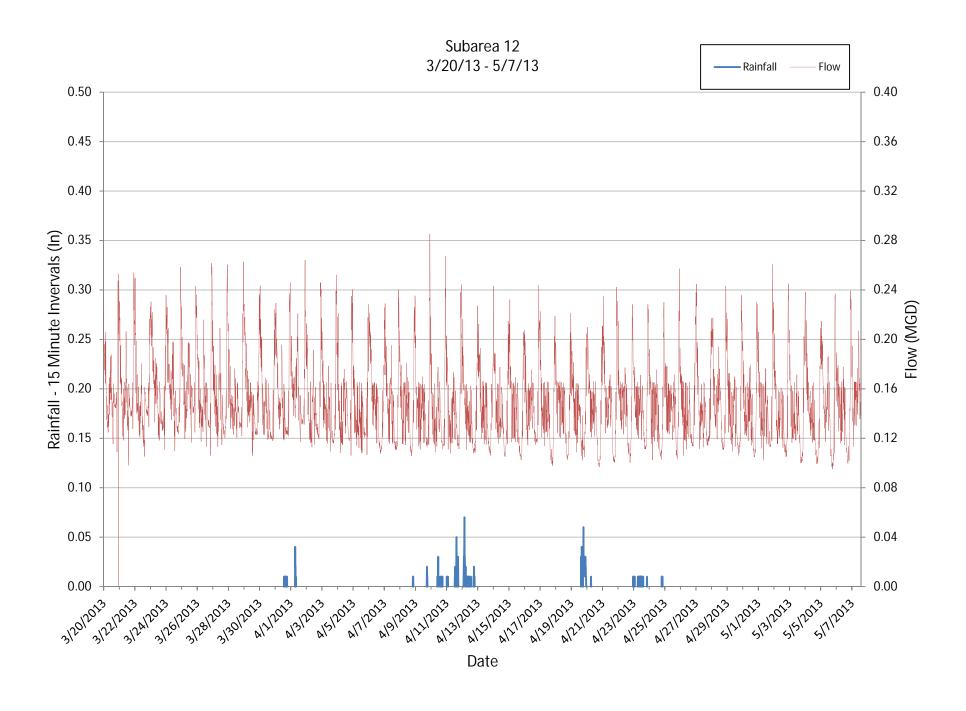


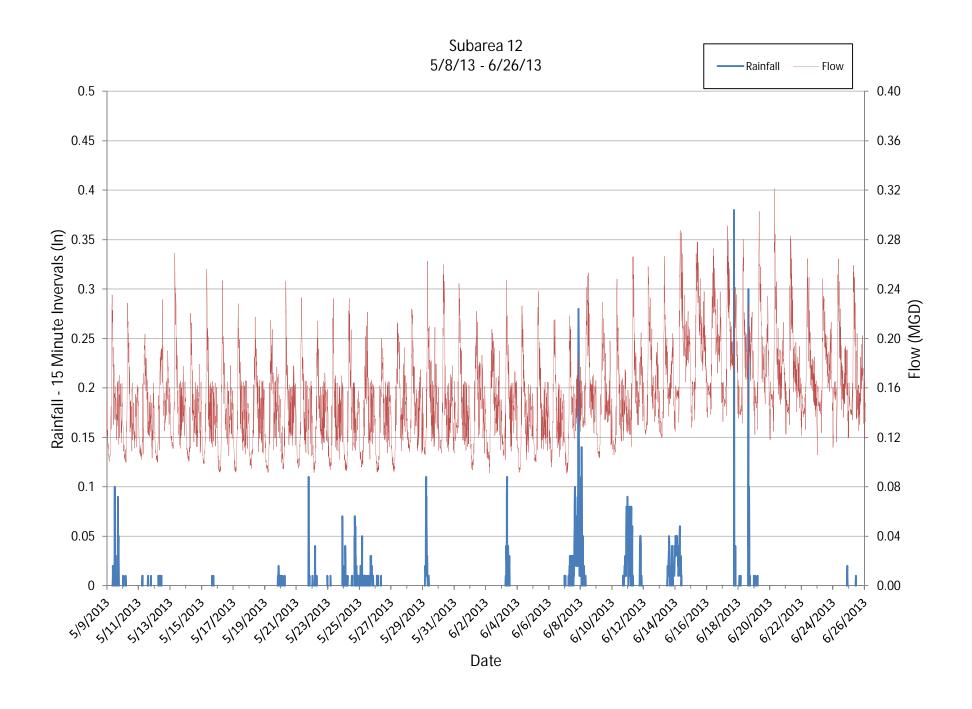


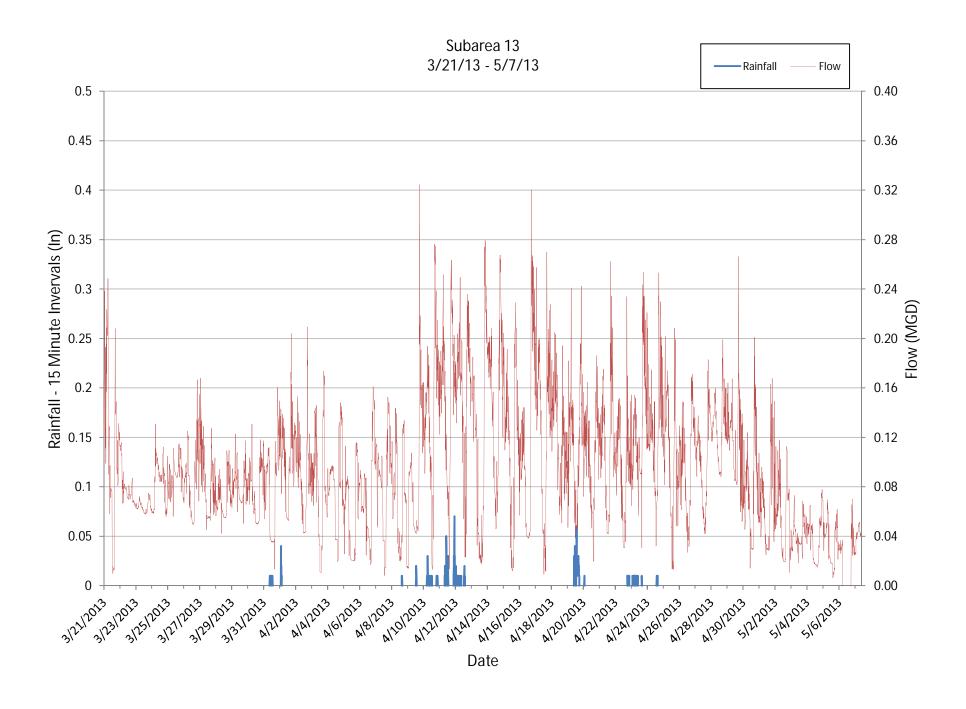


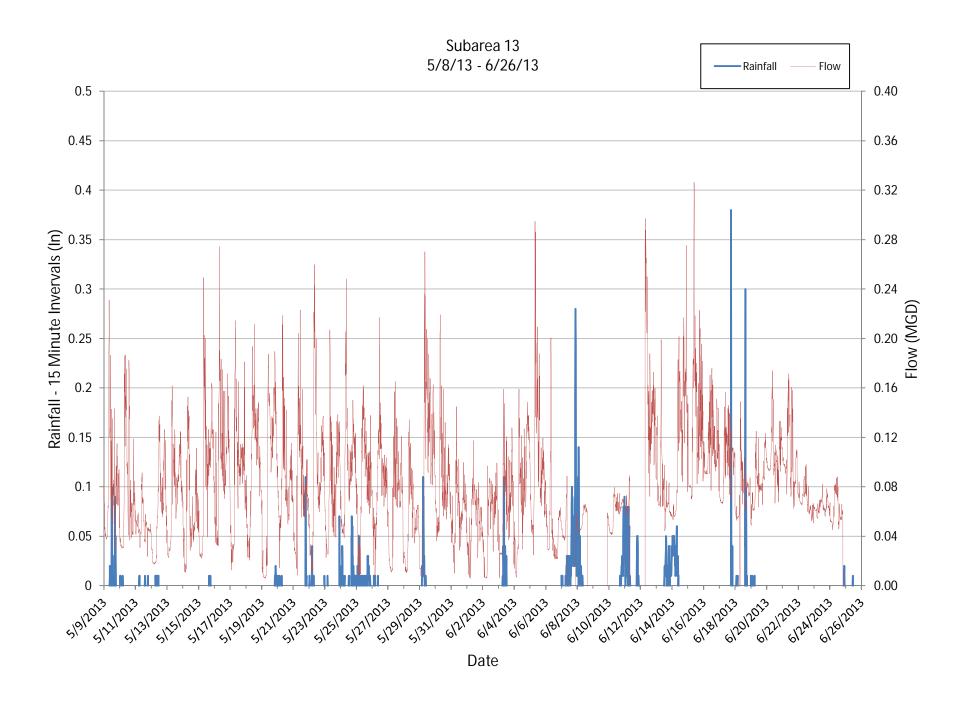


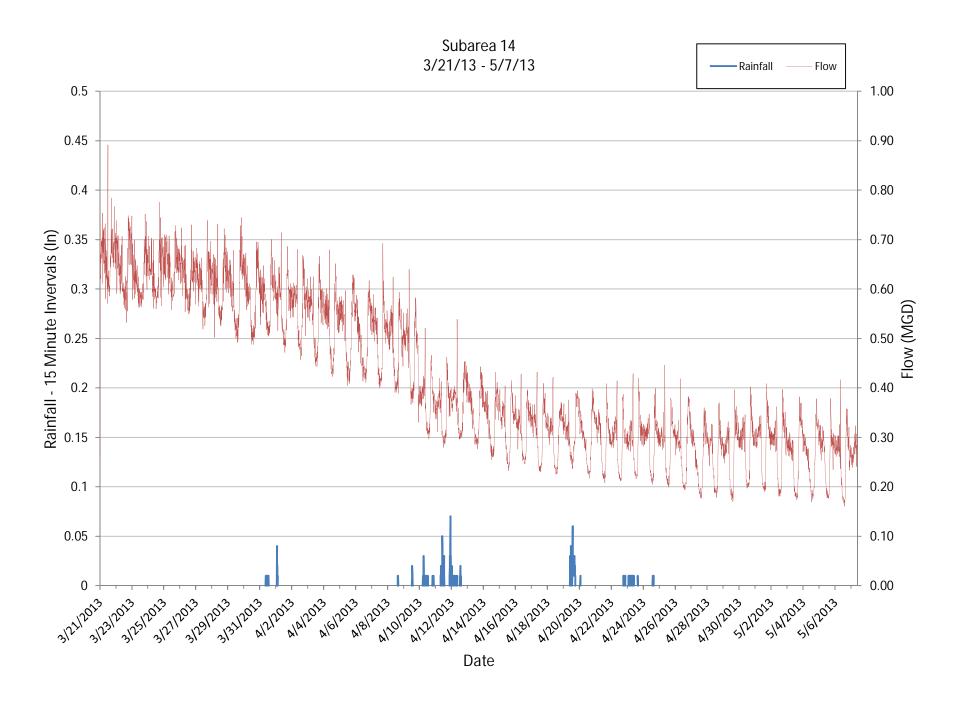


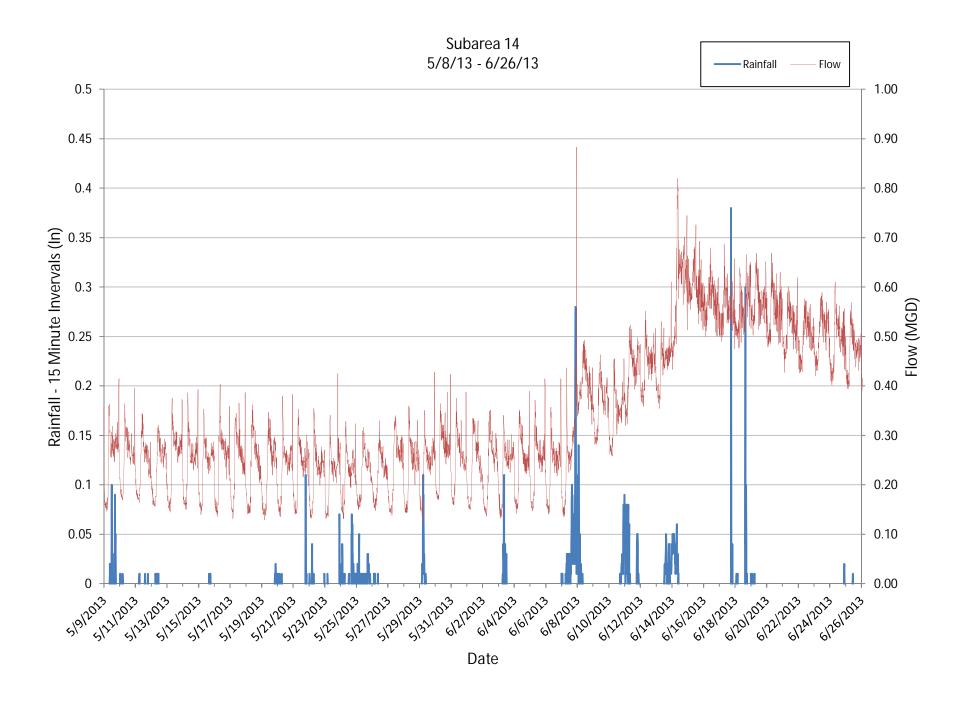


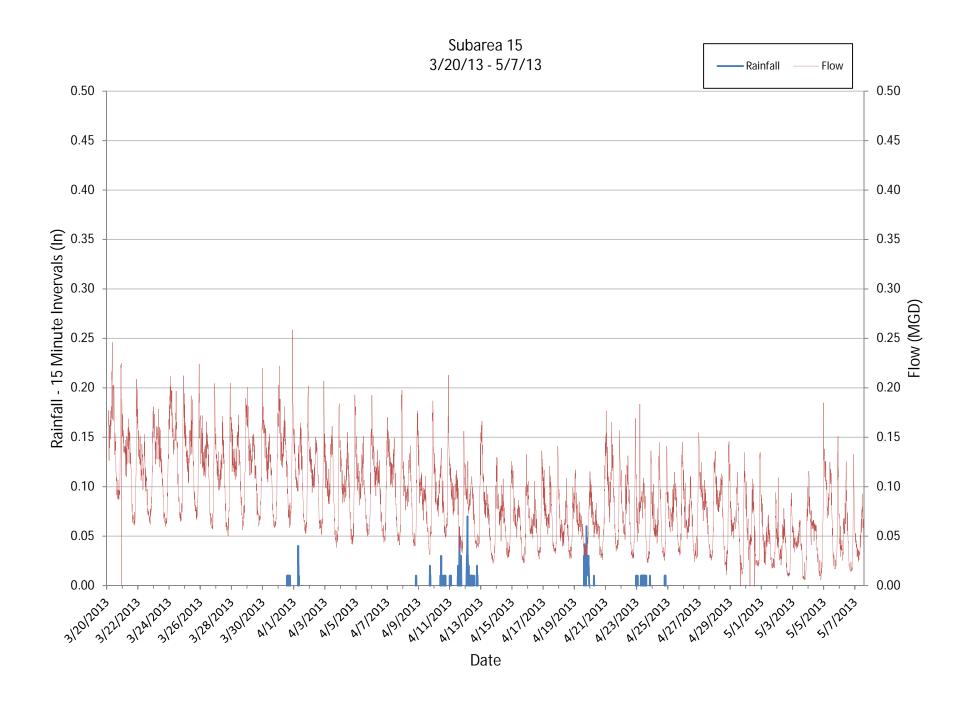


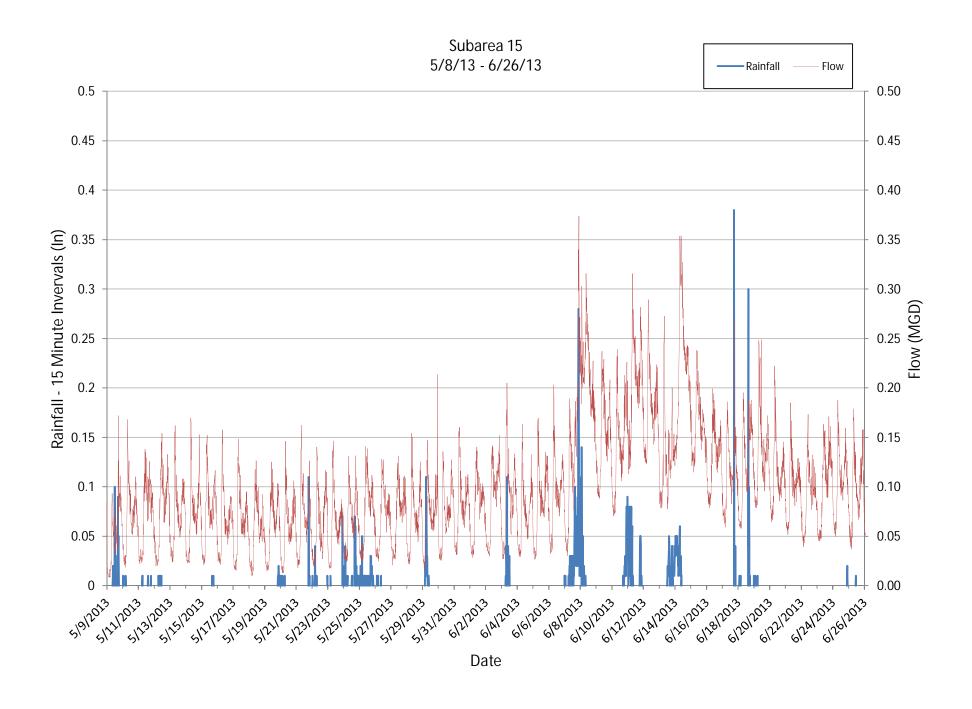


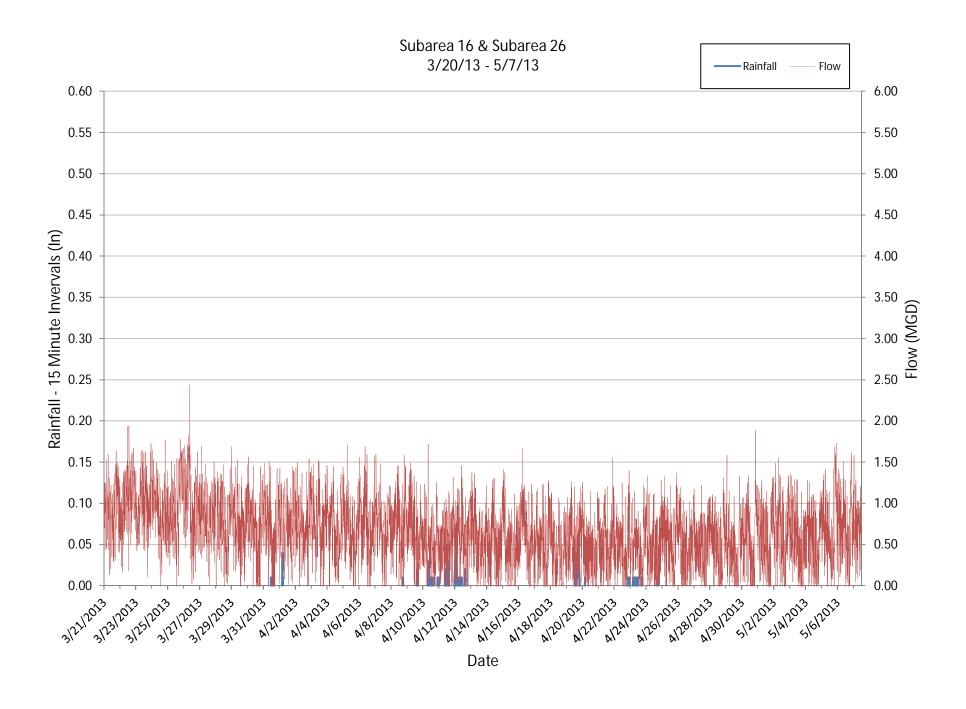


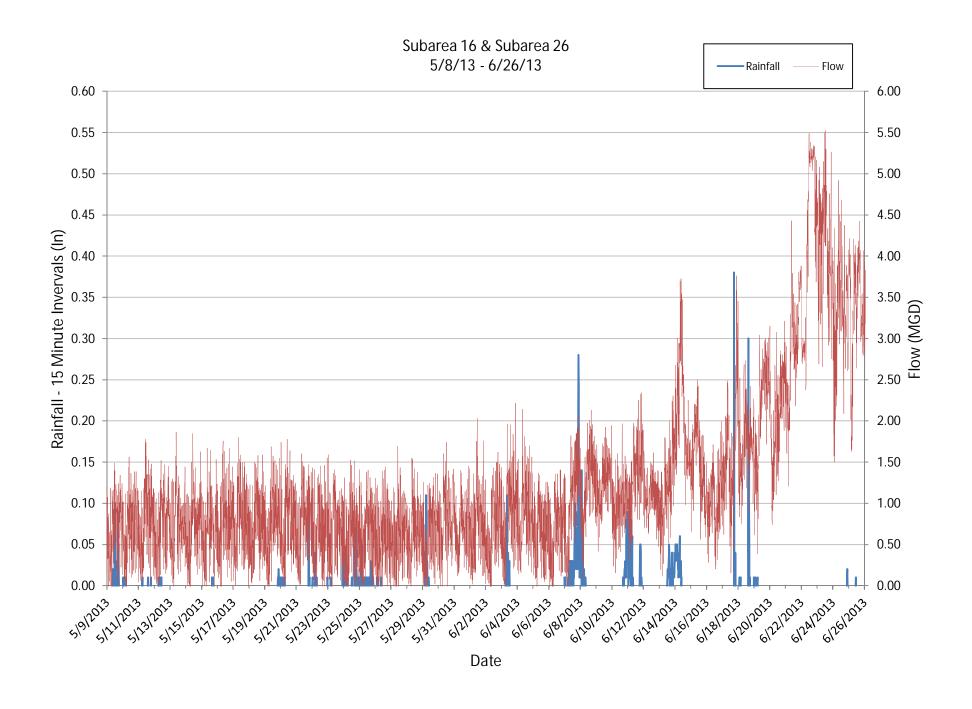


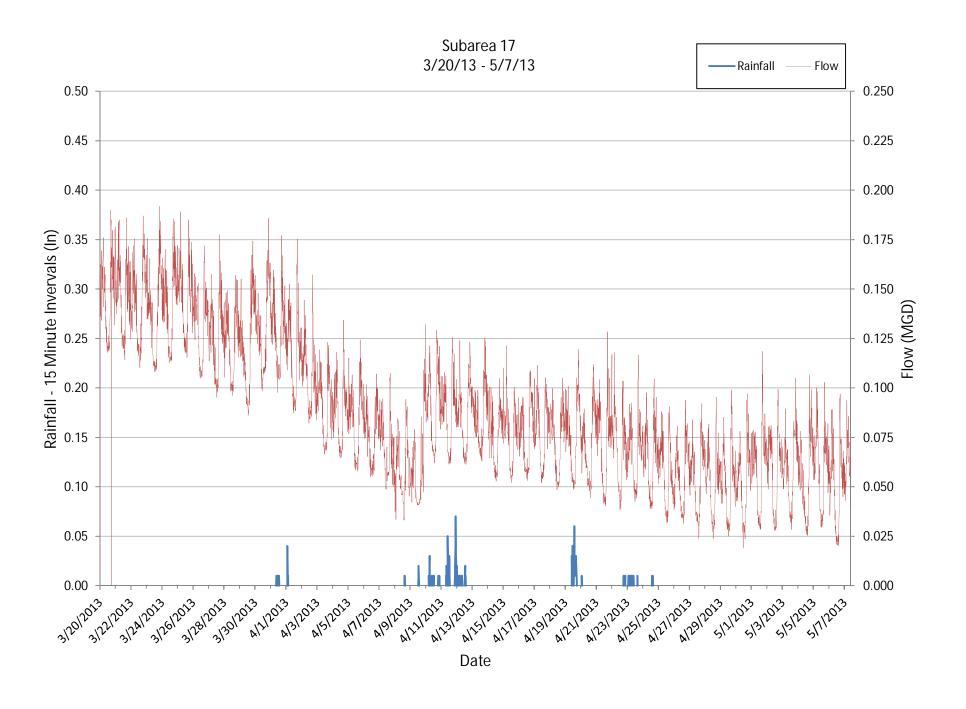


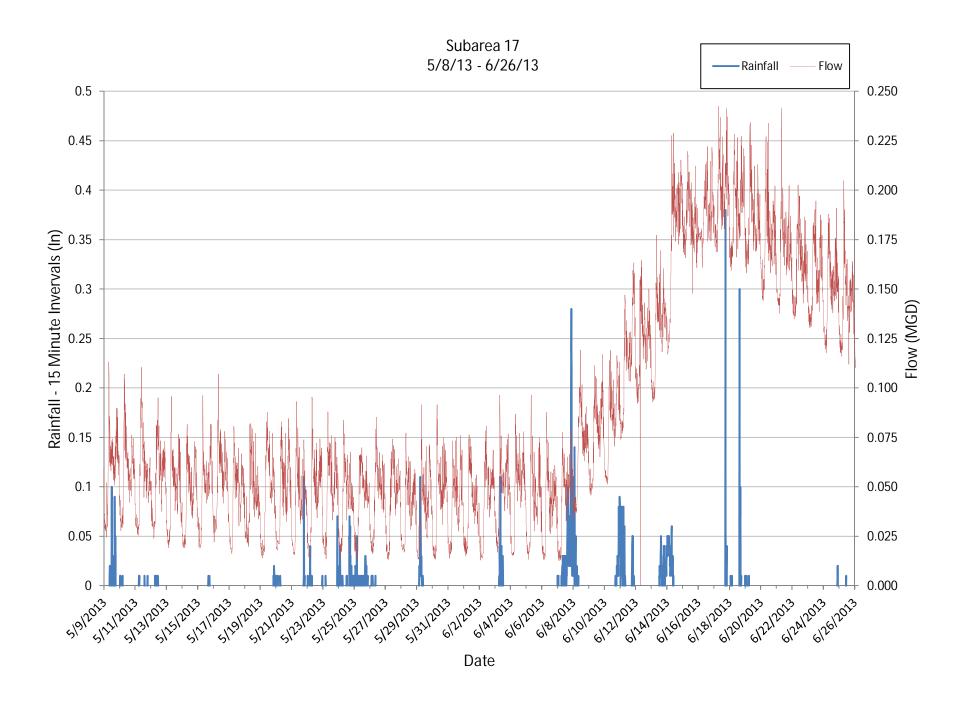


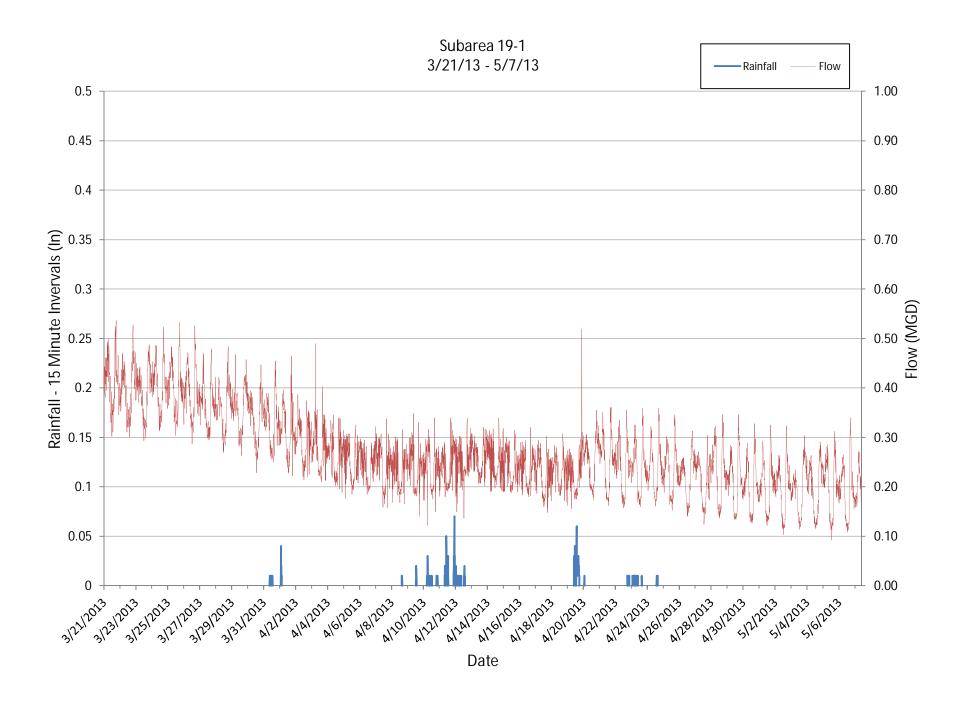


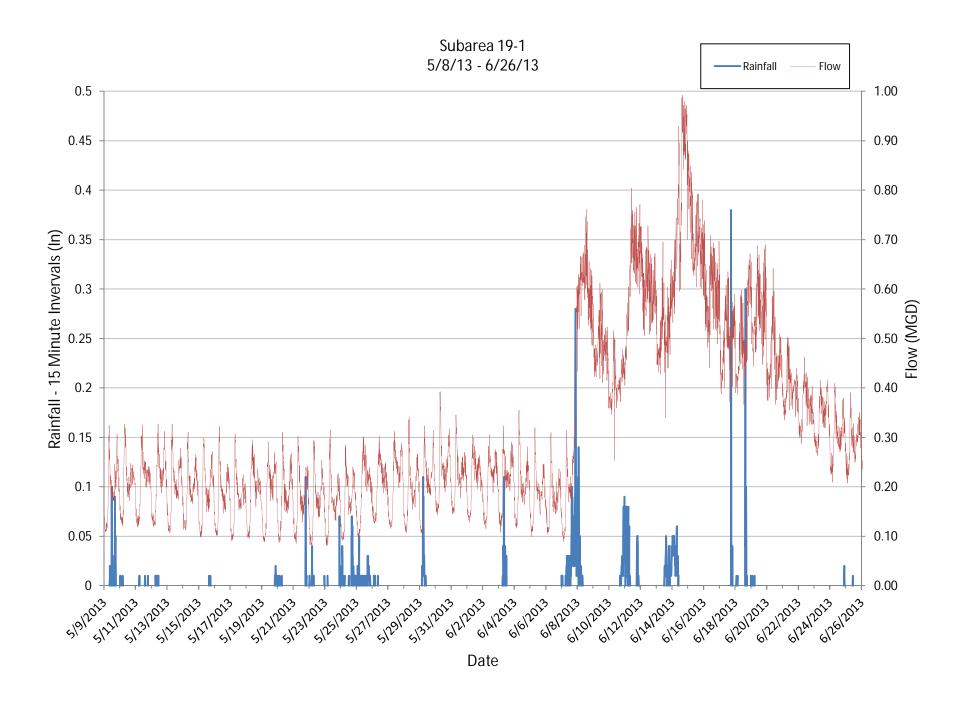


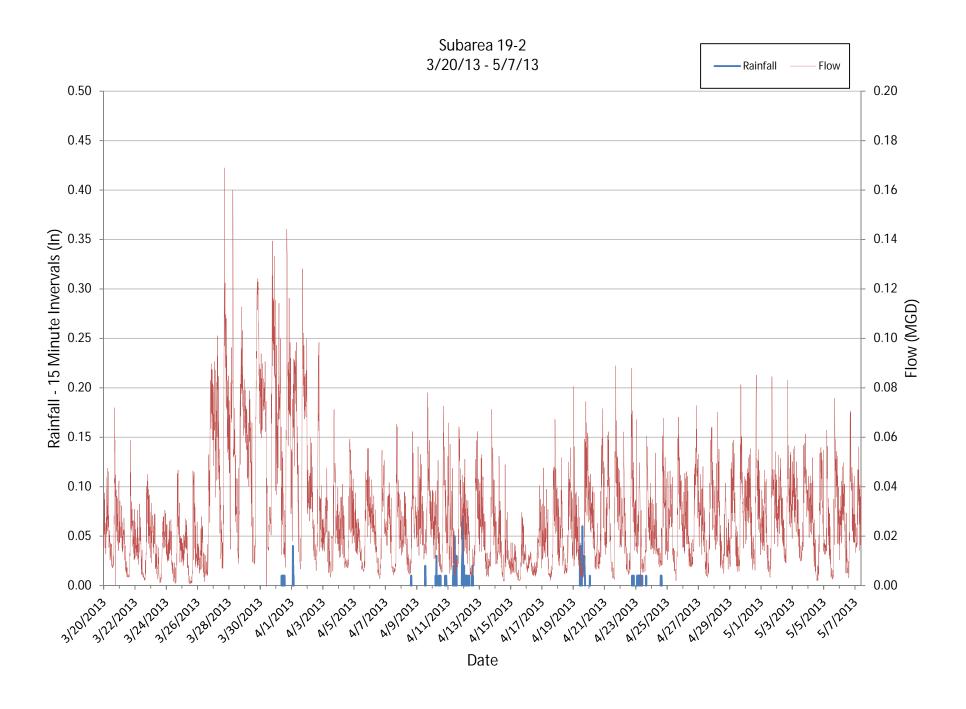


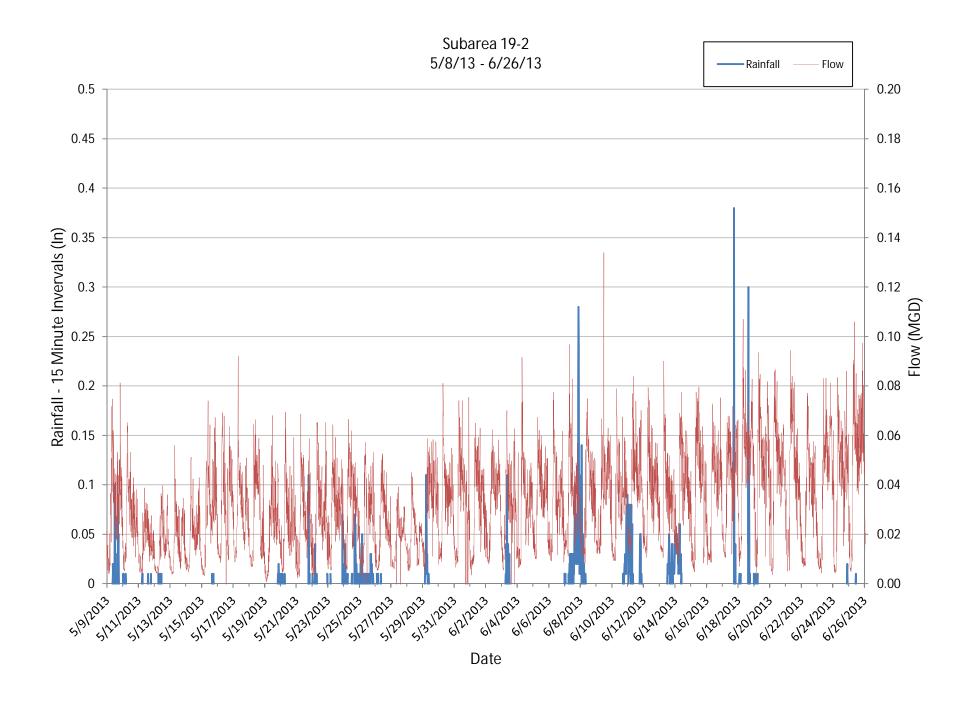


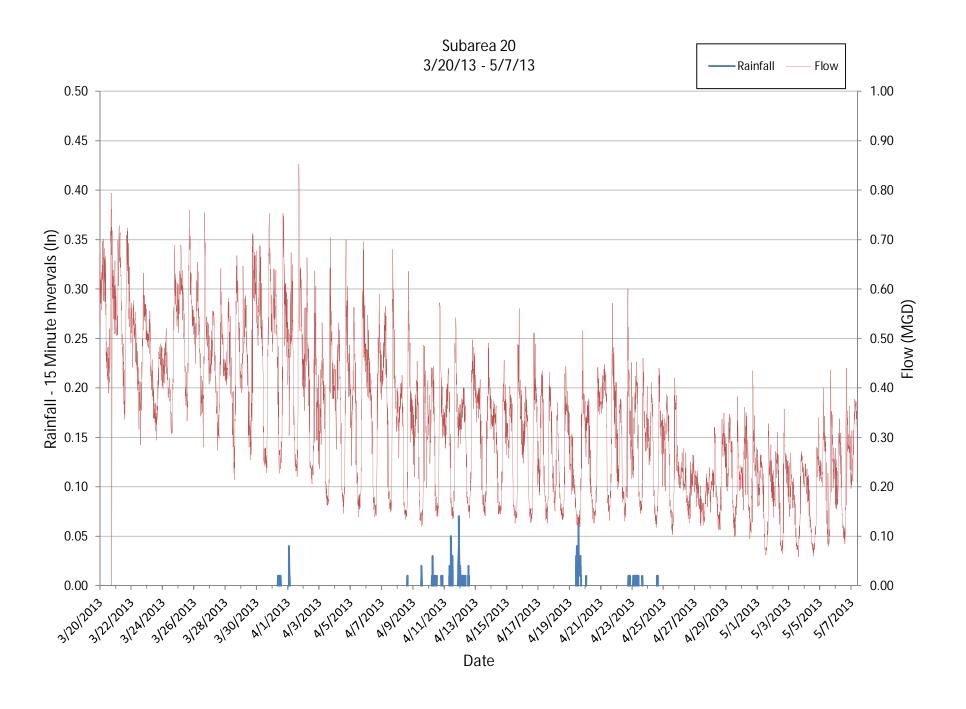


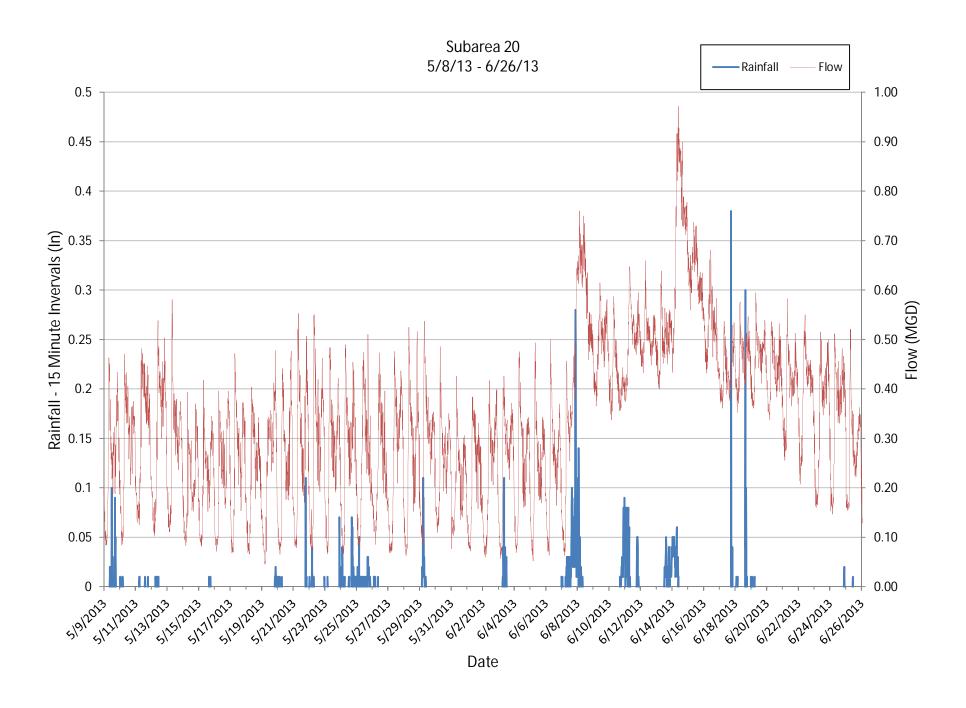


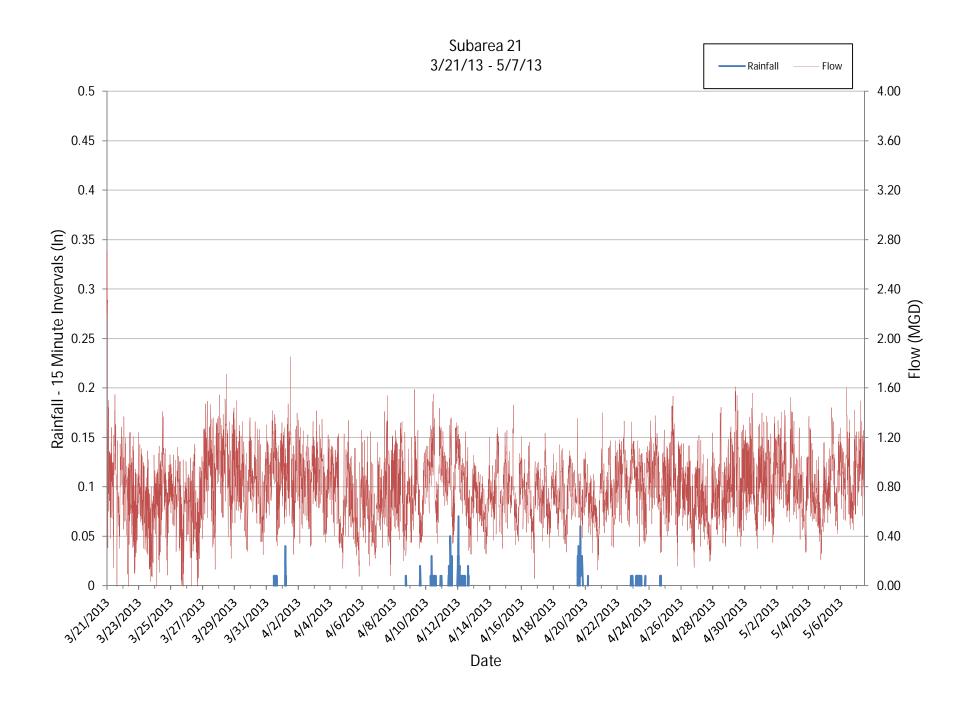


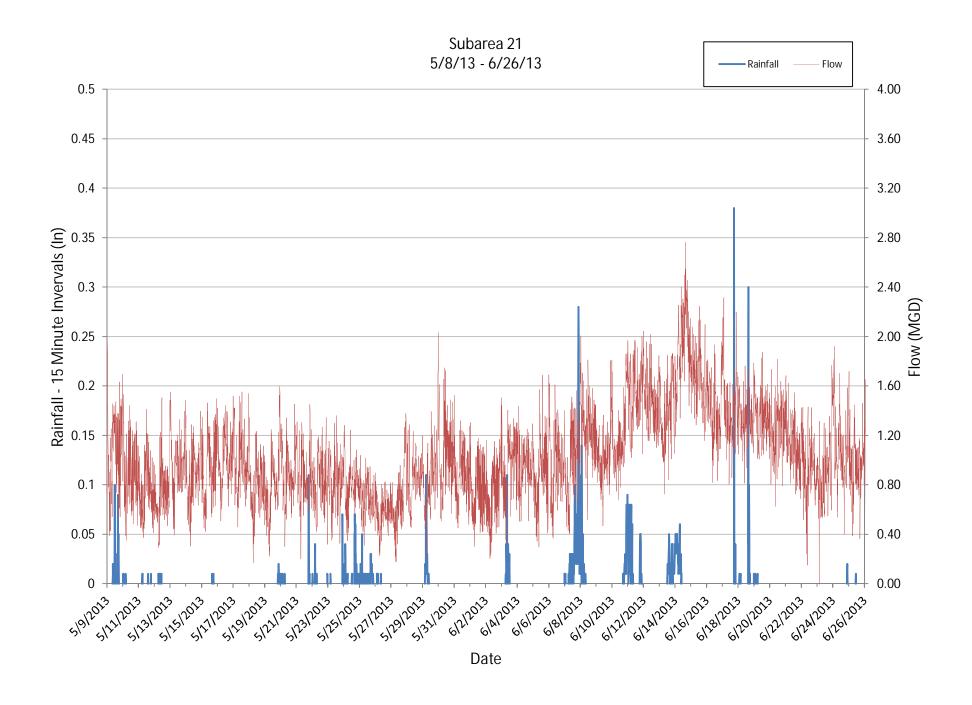


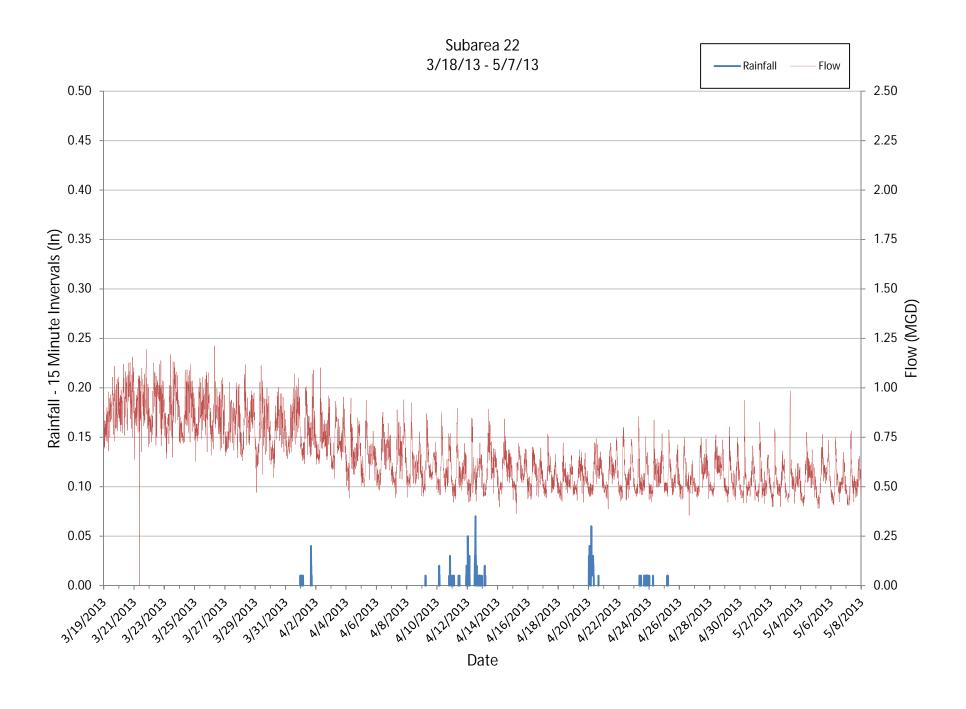


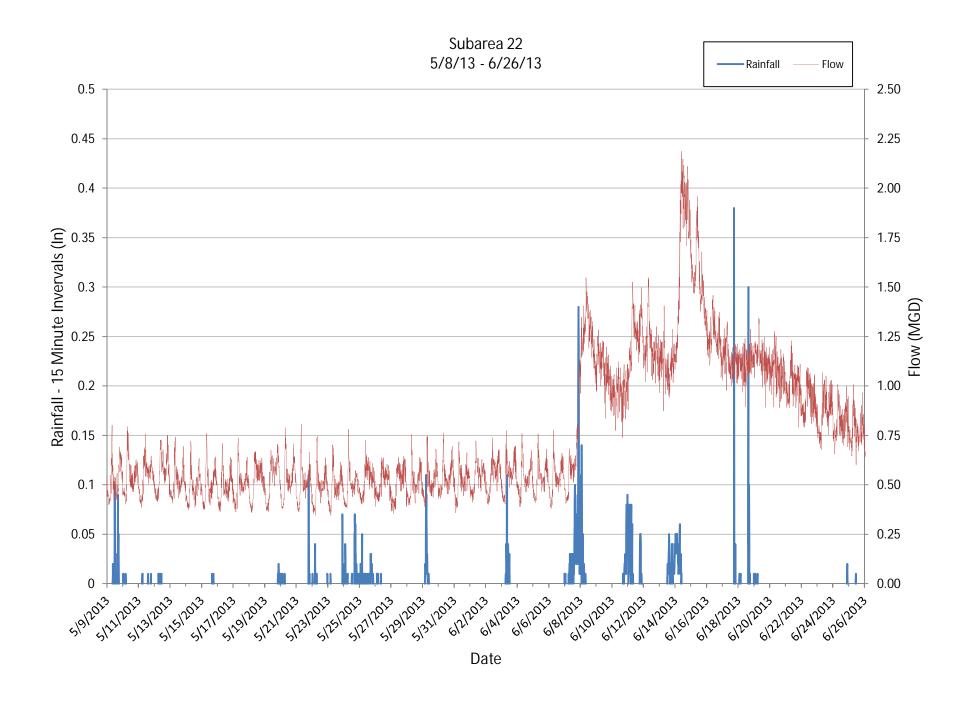


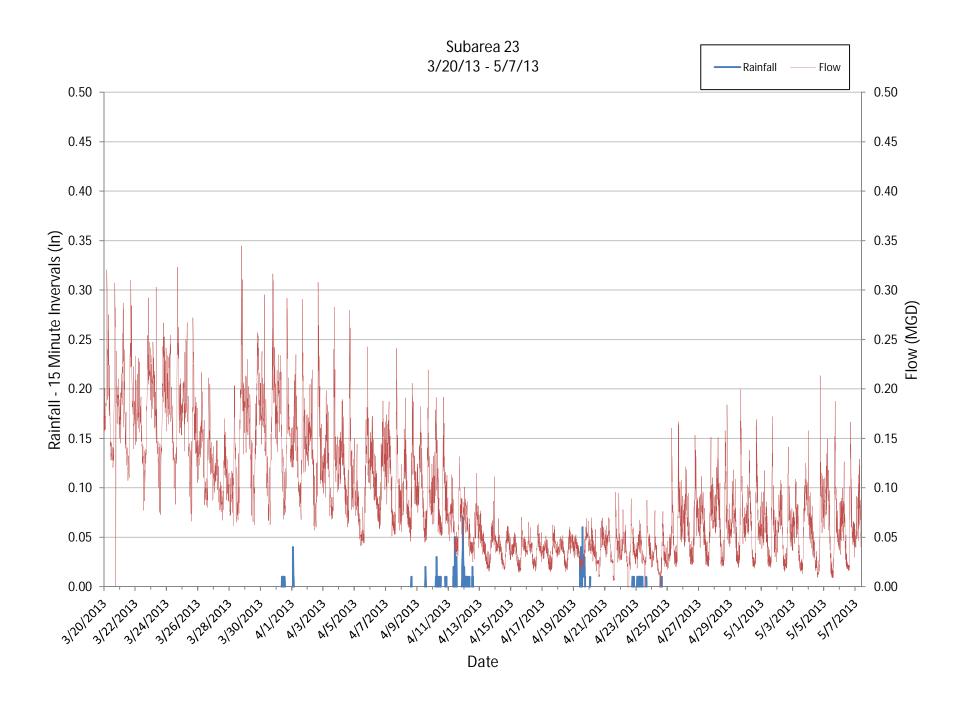


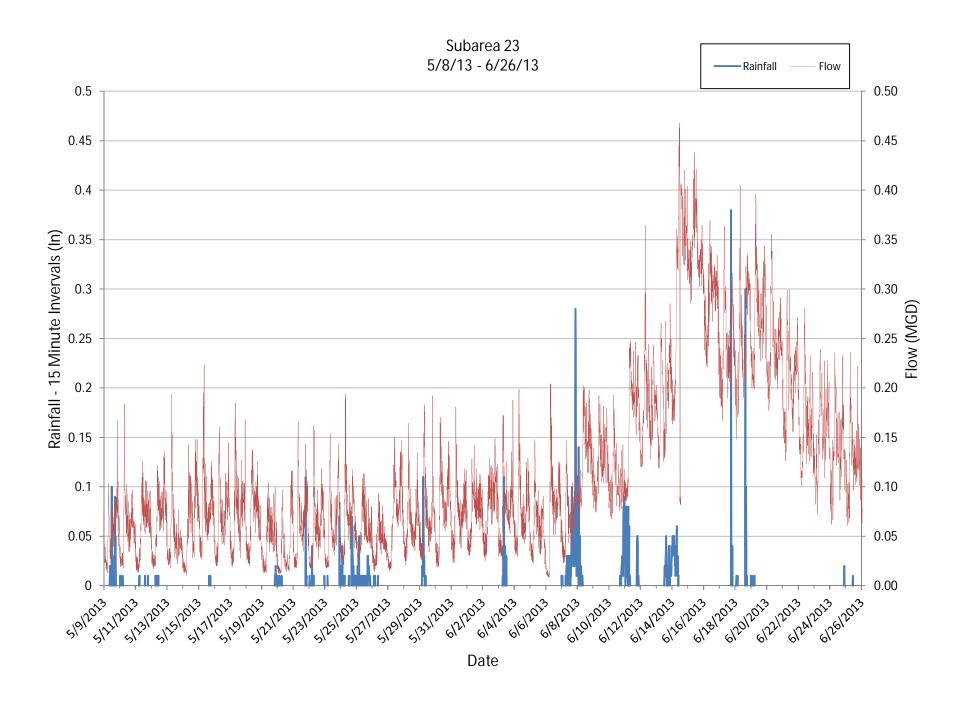


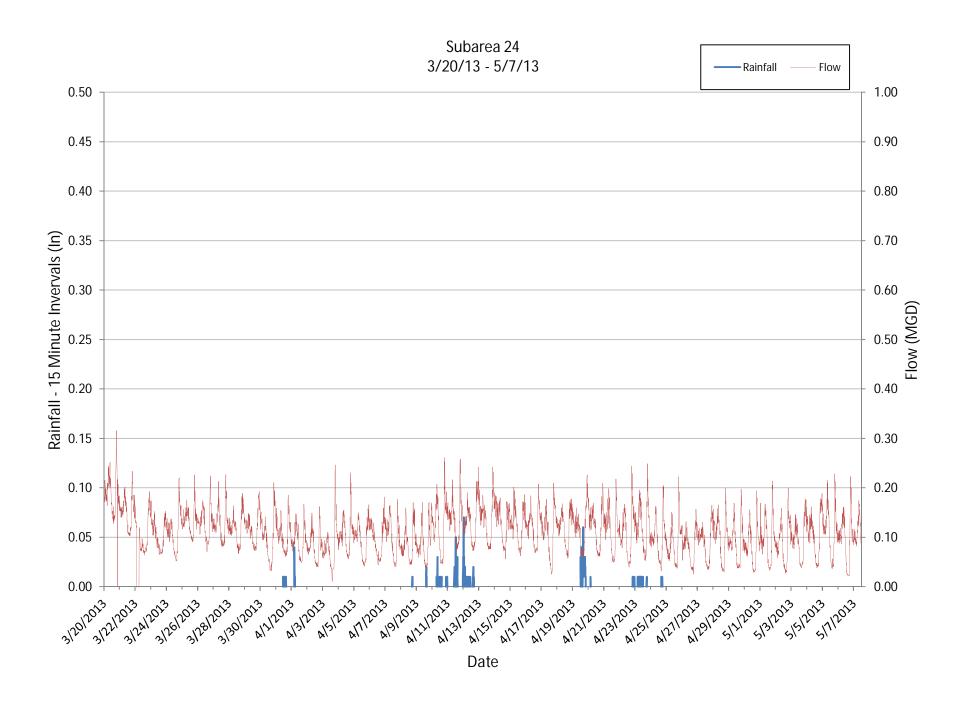


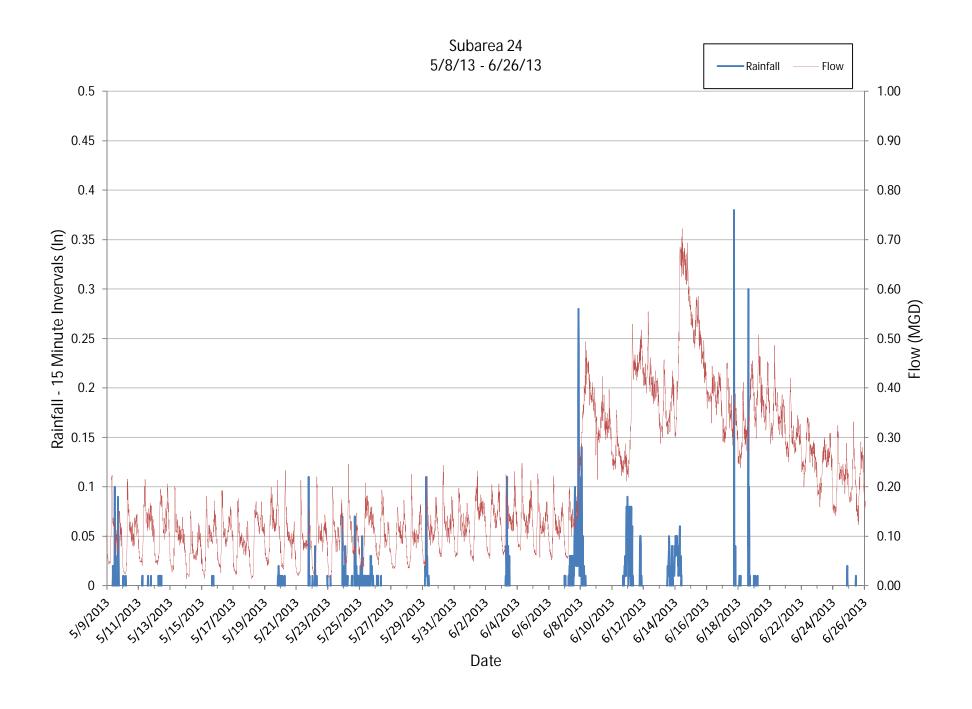


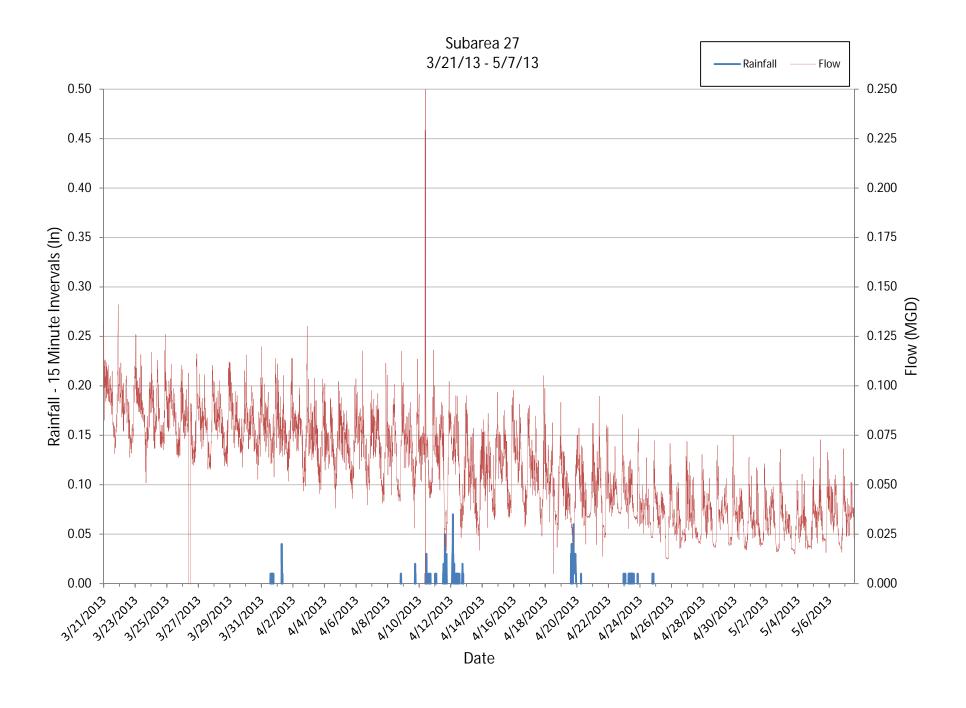


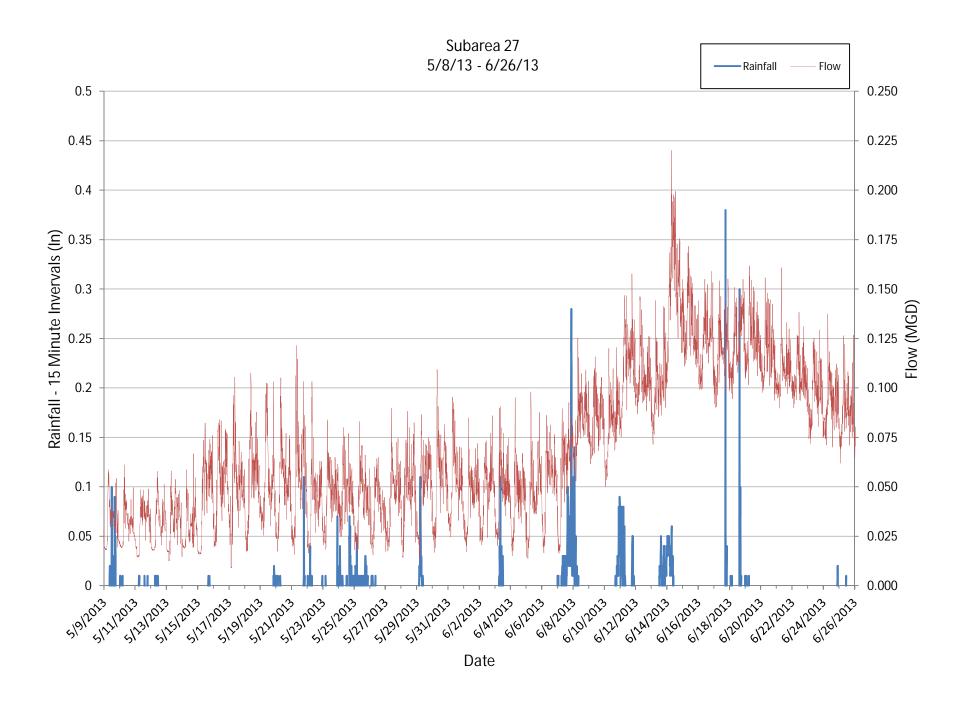


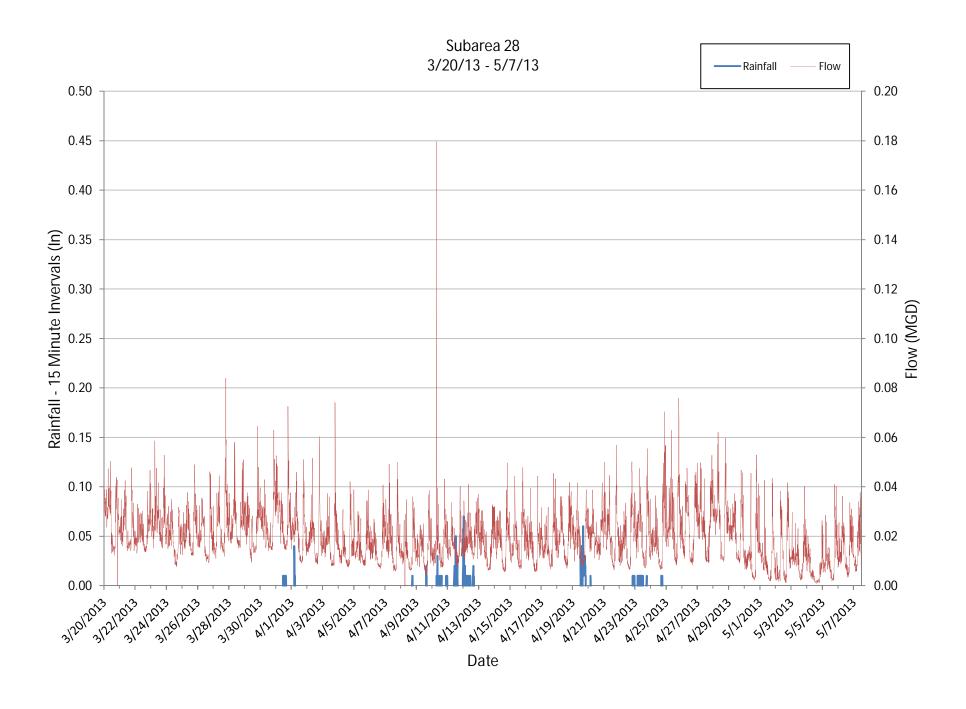


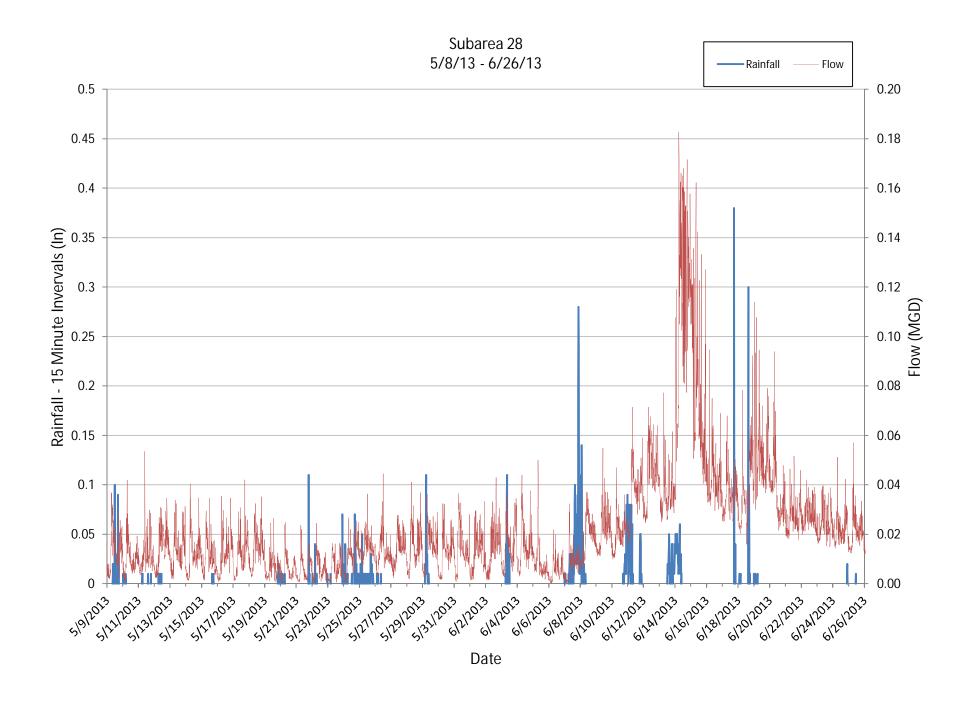


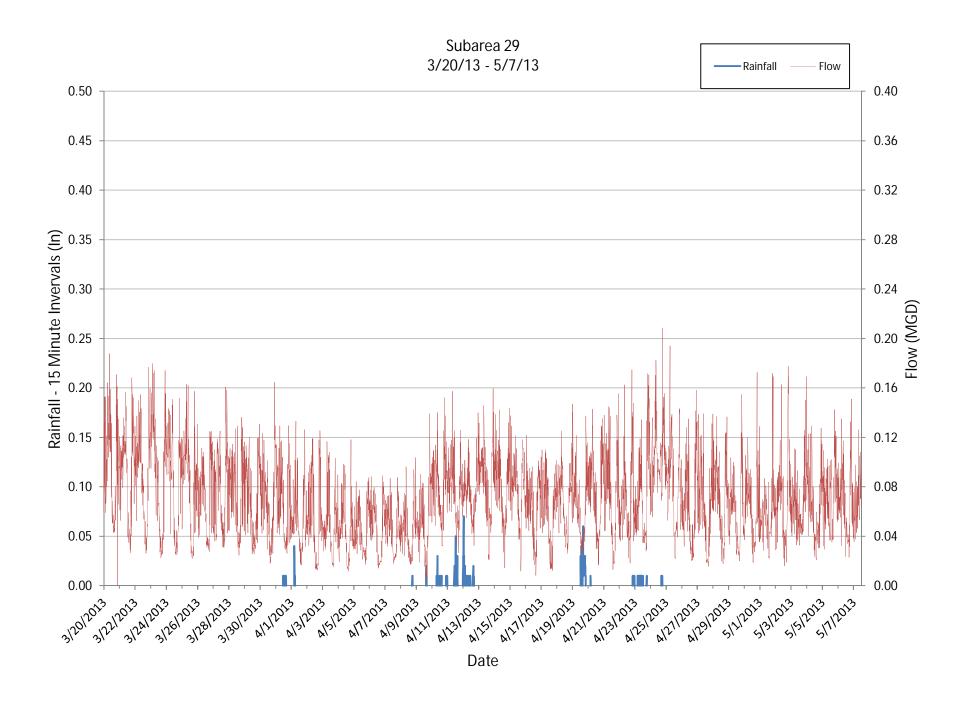


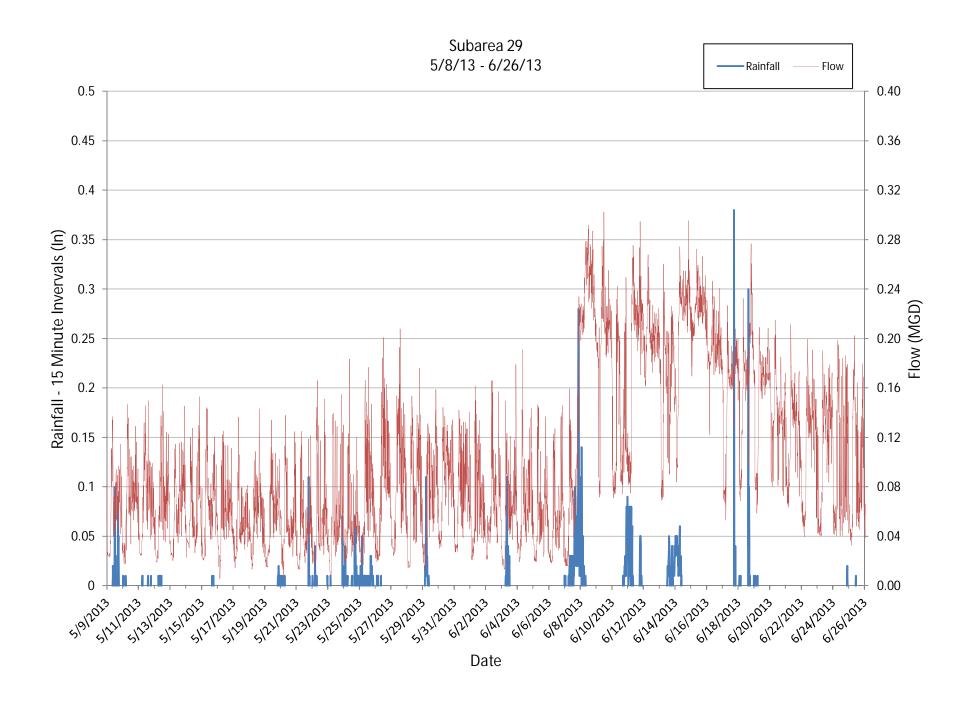


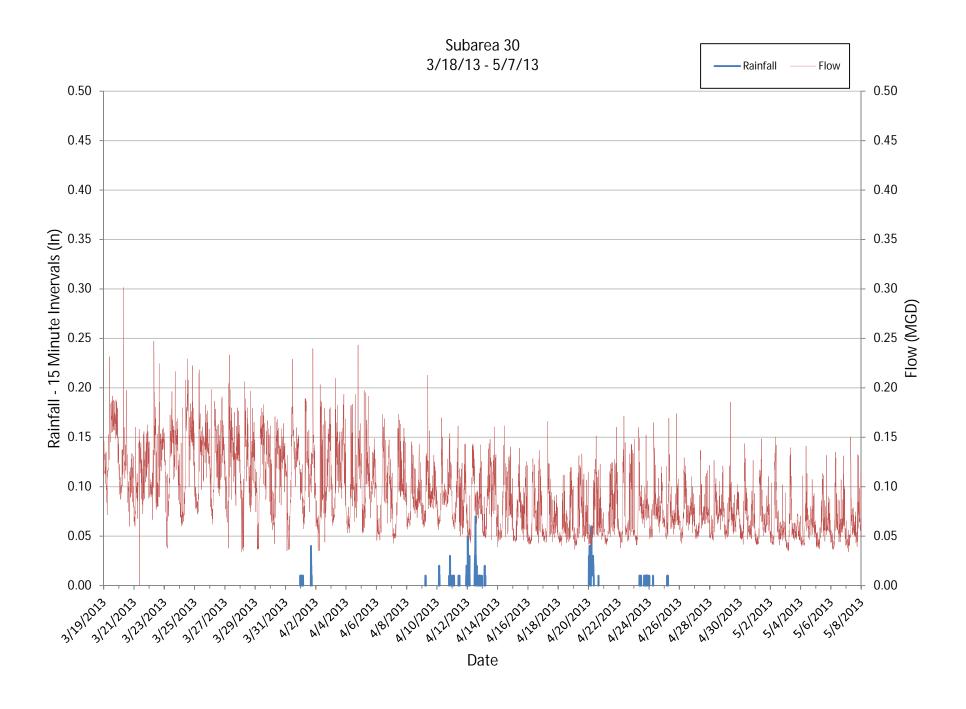


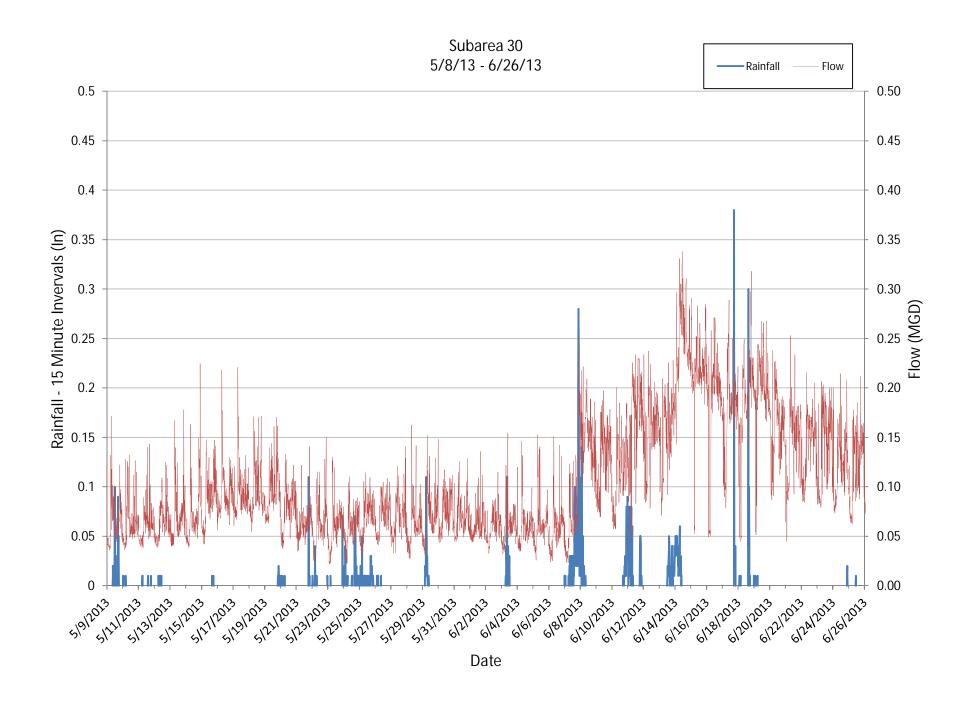


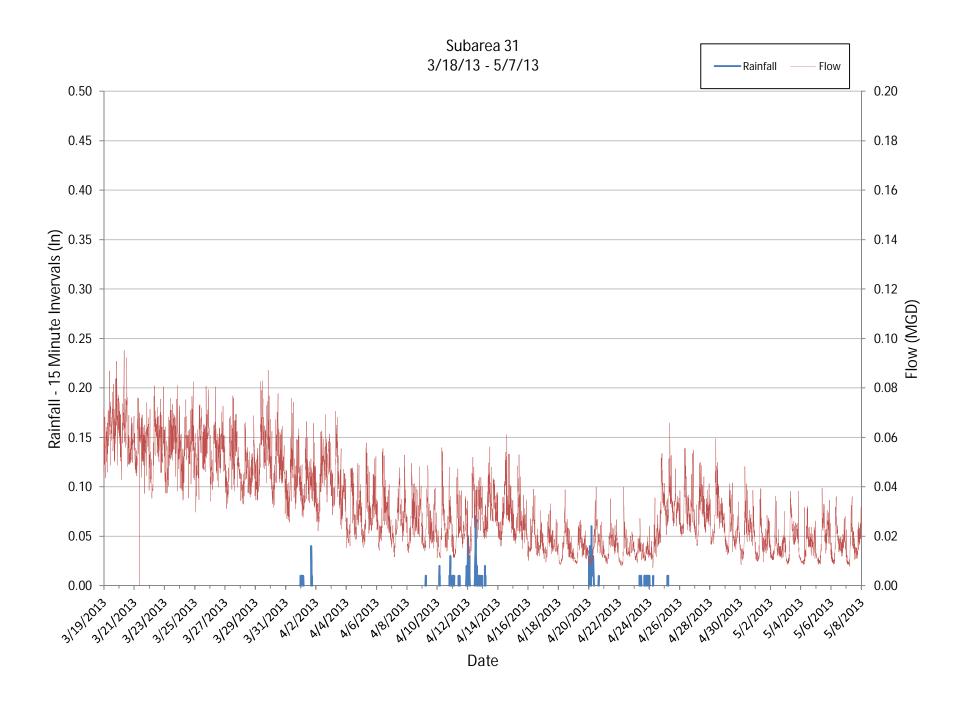


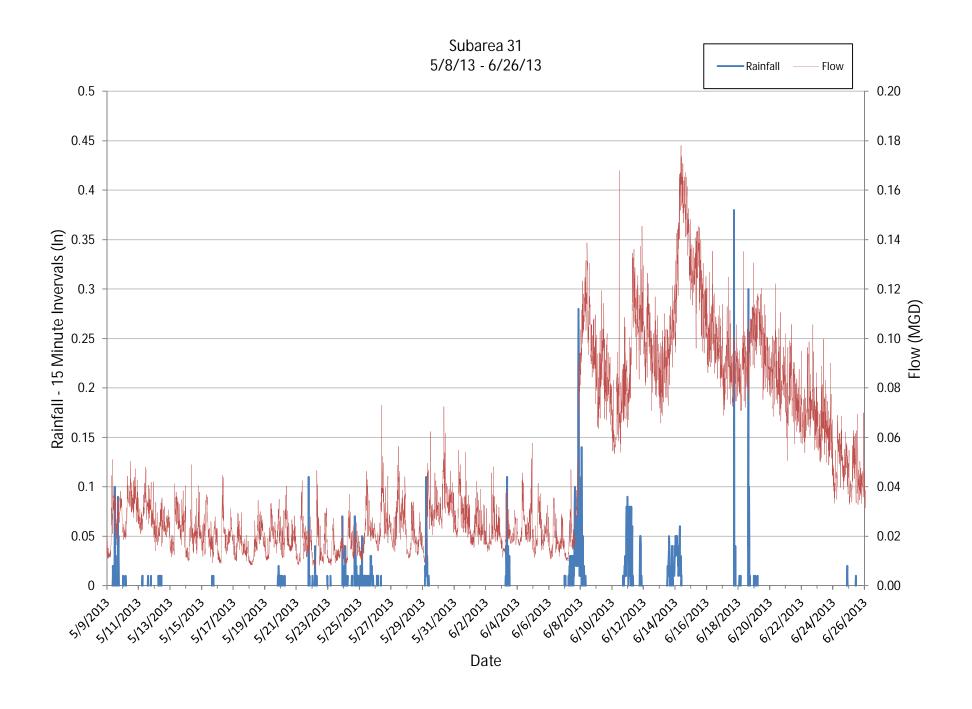


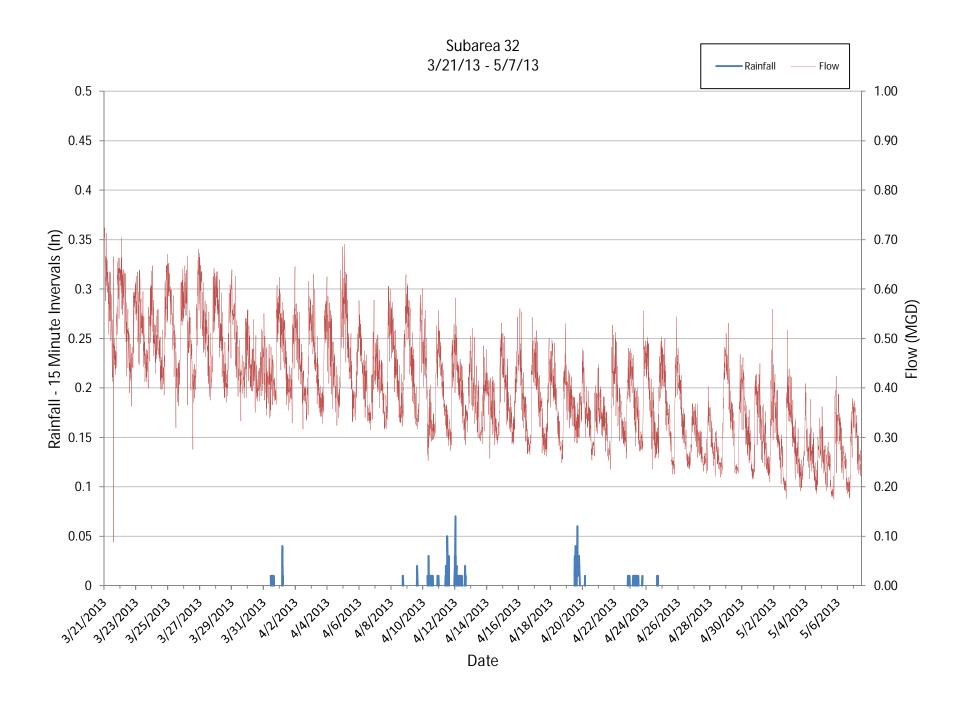


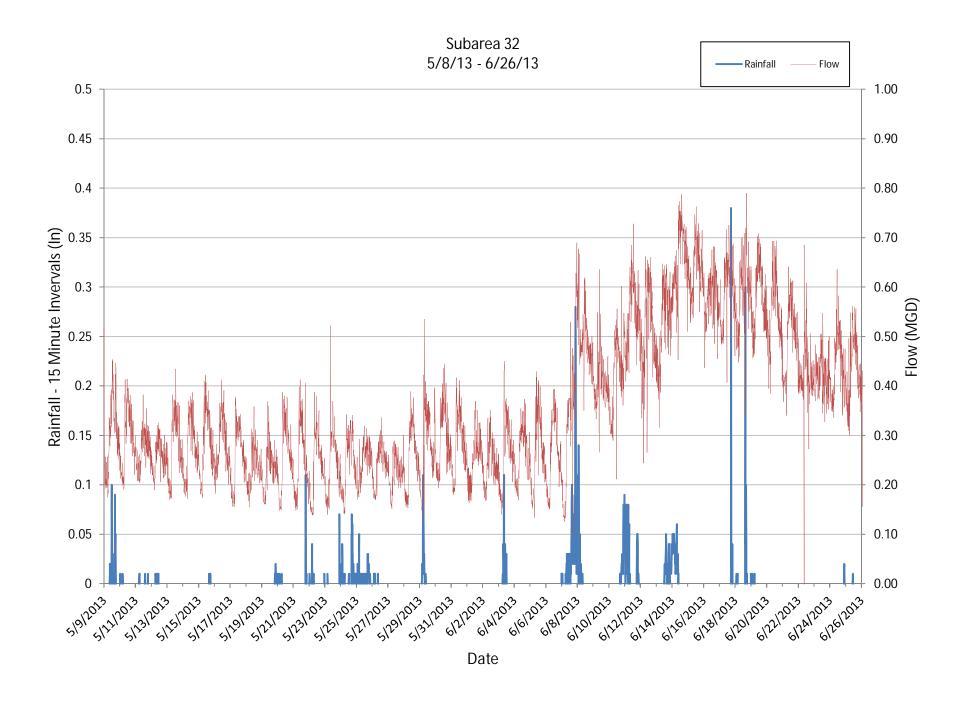


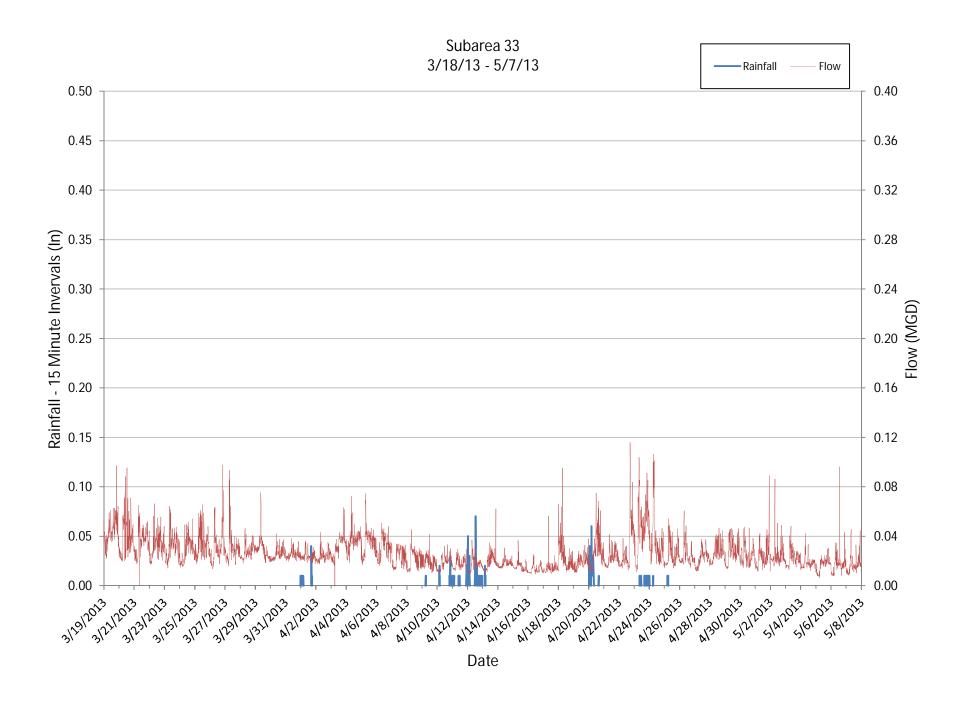


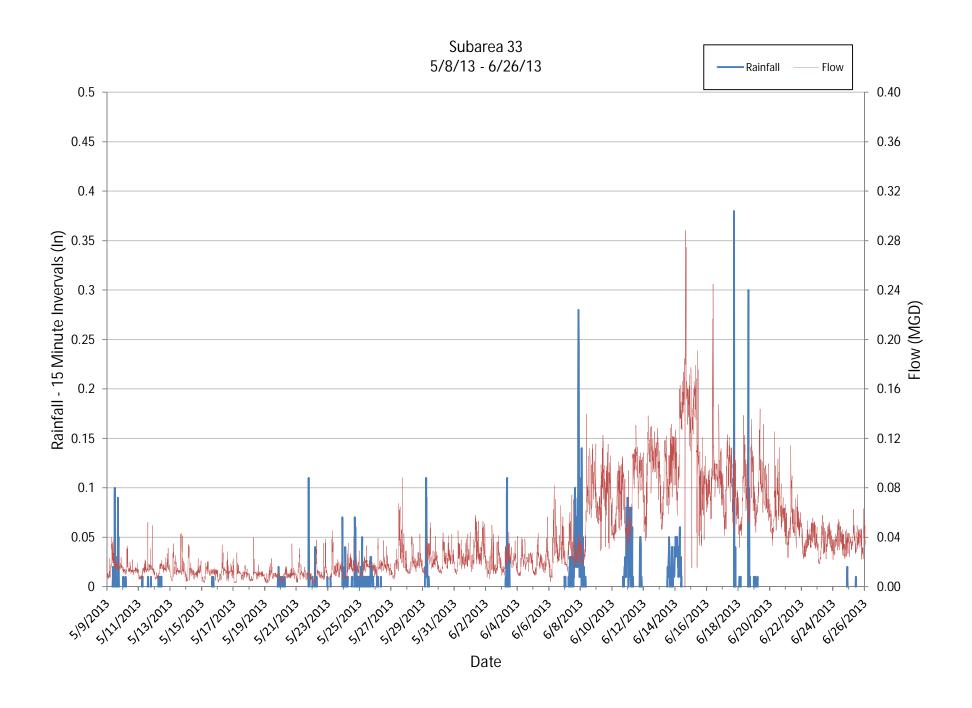




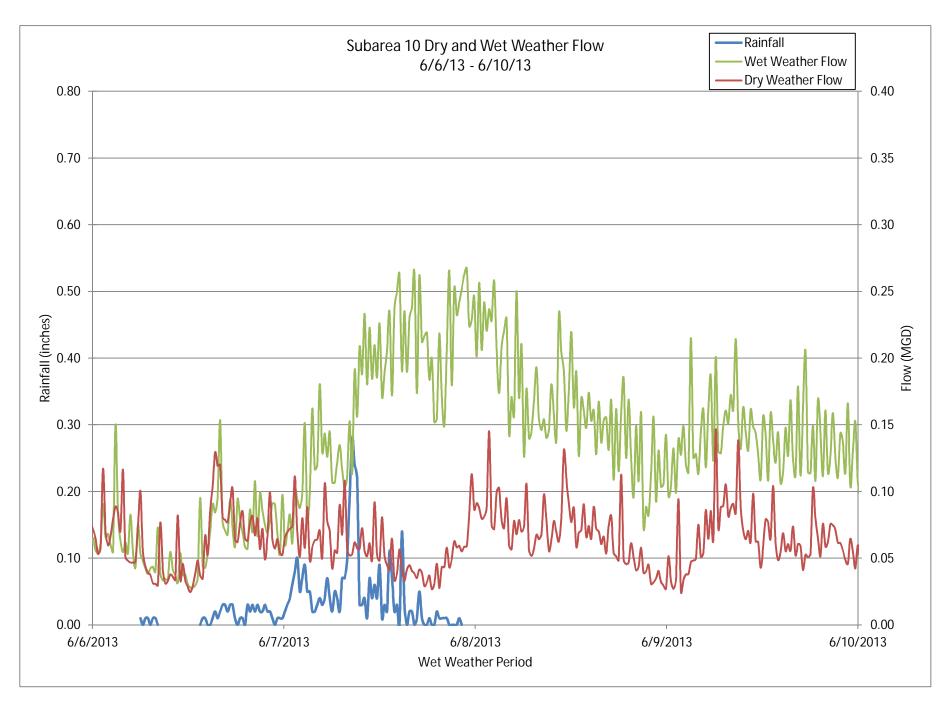


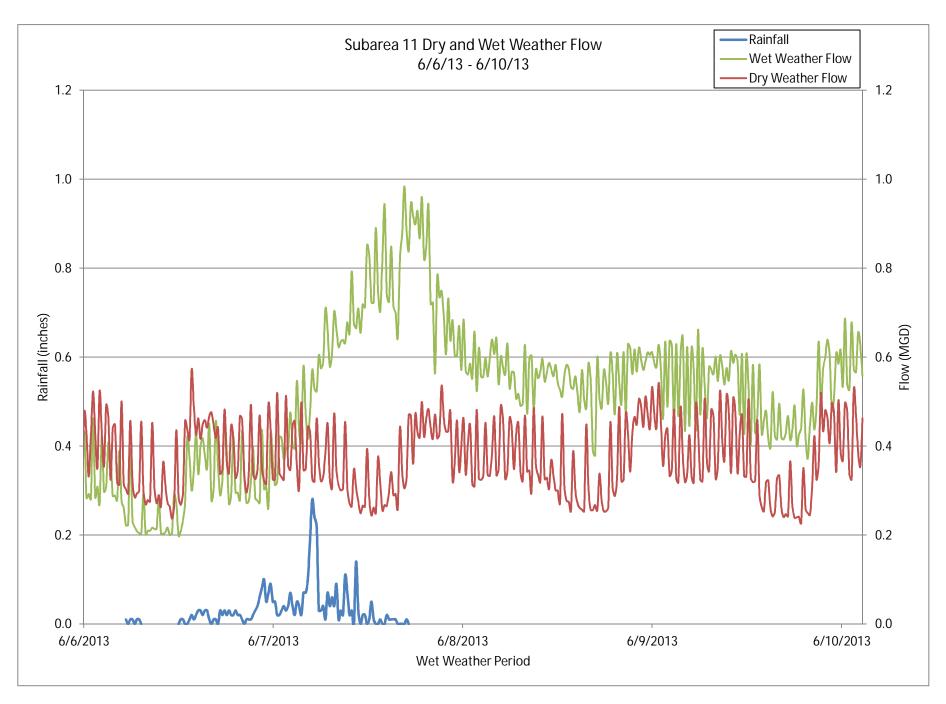


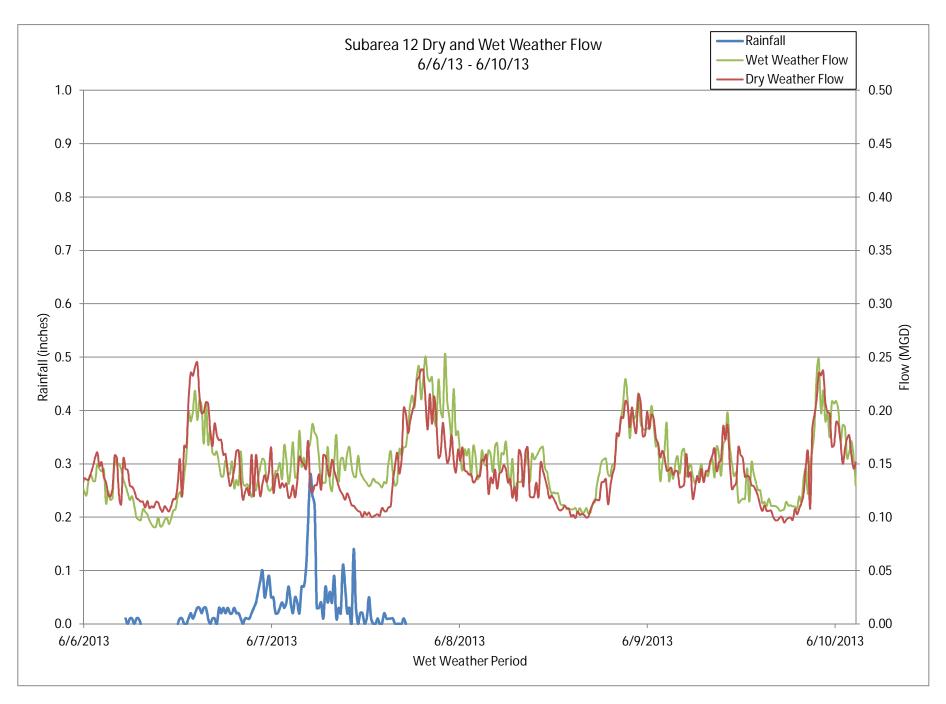


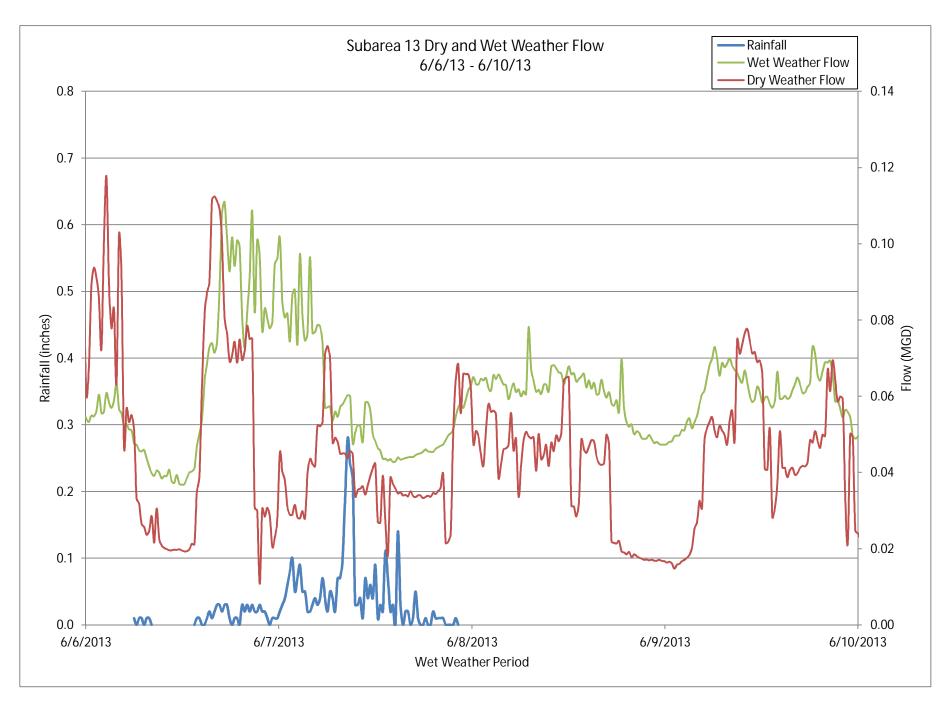


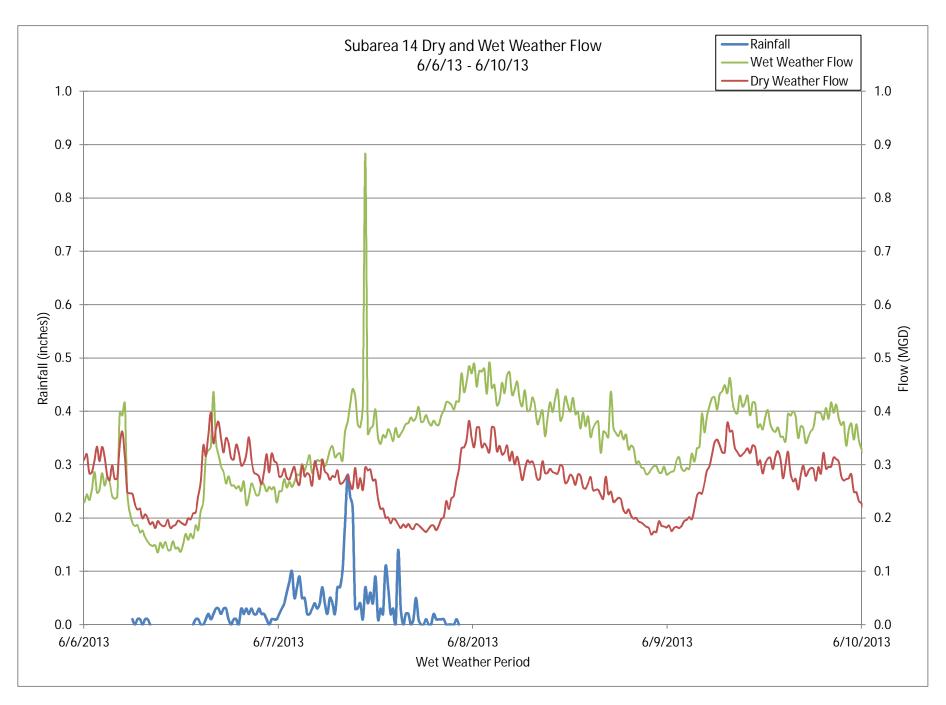
Appendix F Dry Weather vs Wet Weather Hydrographs

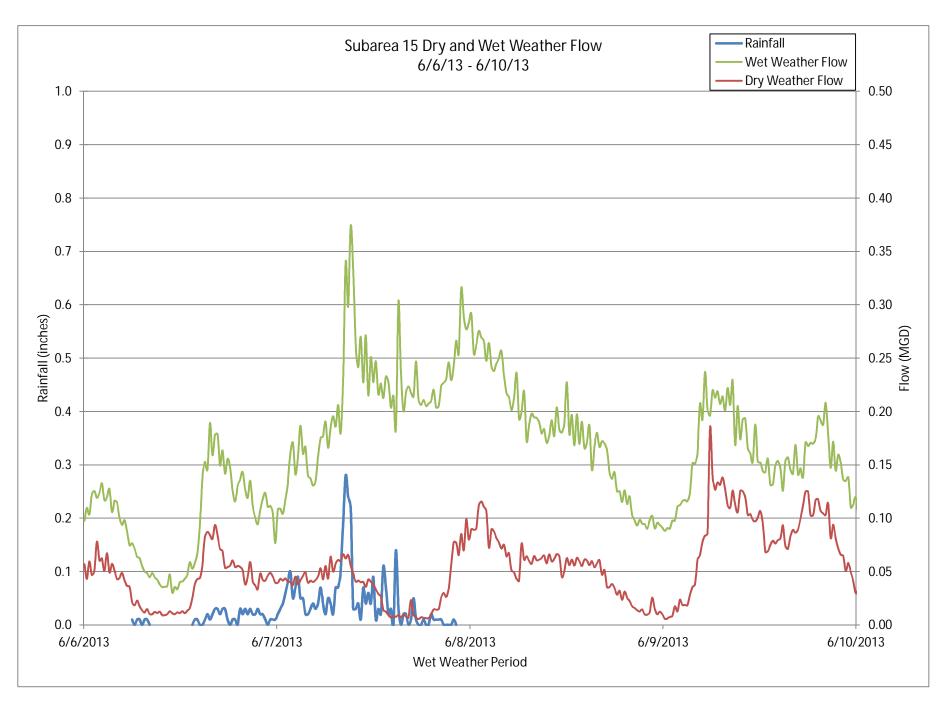


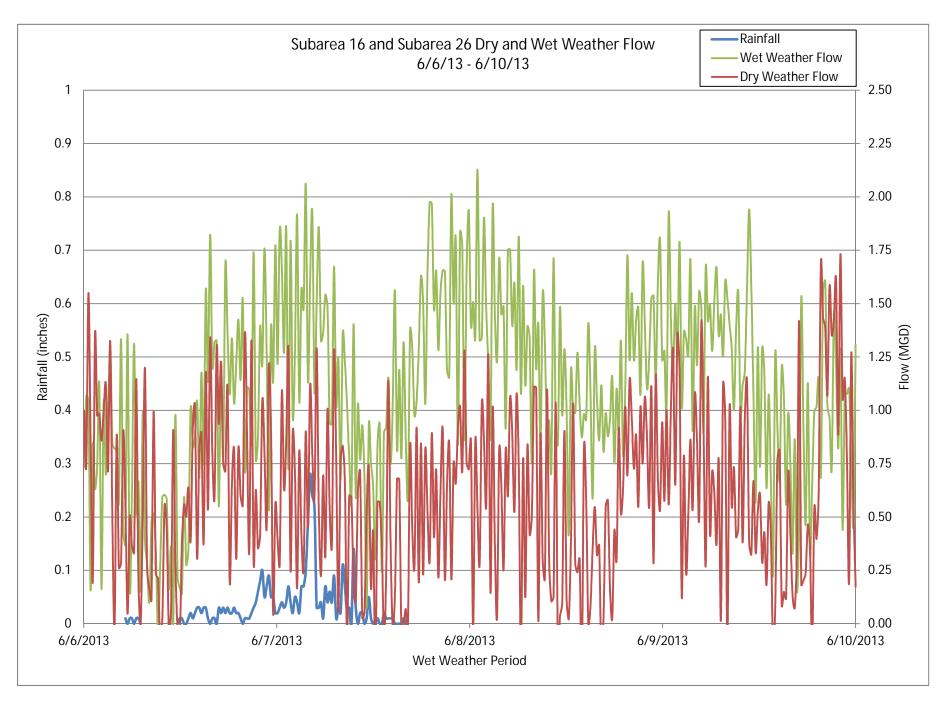


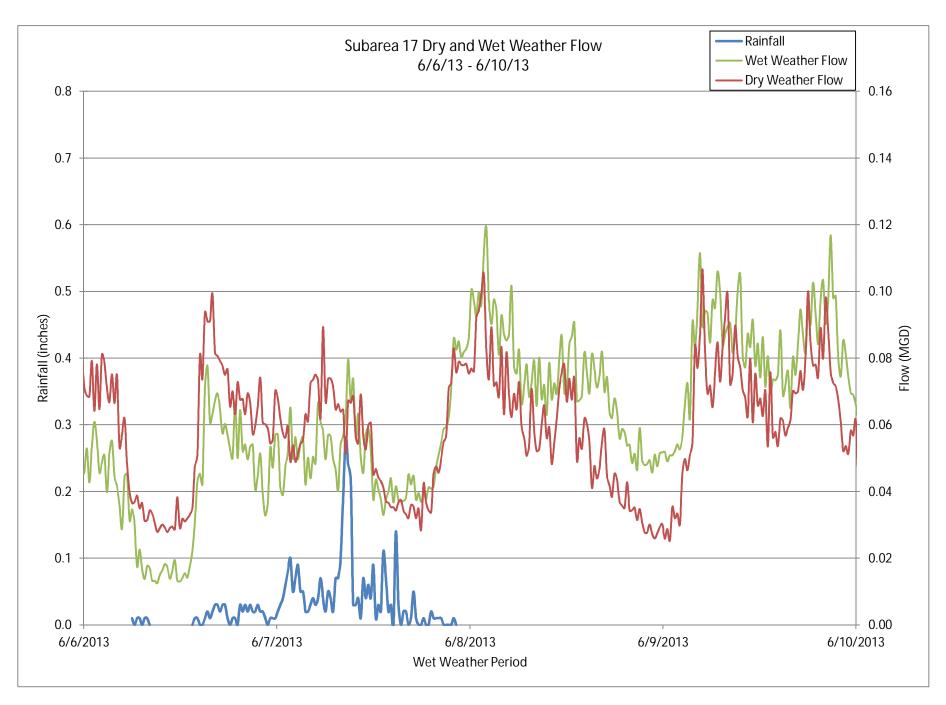


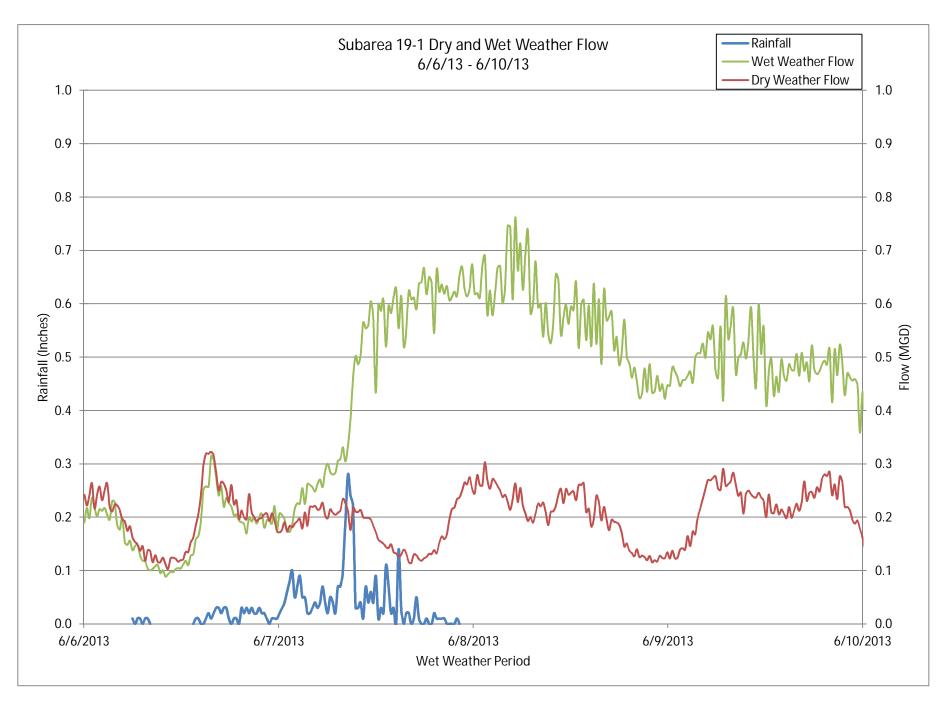


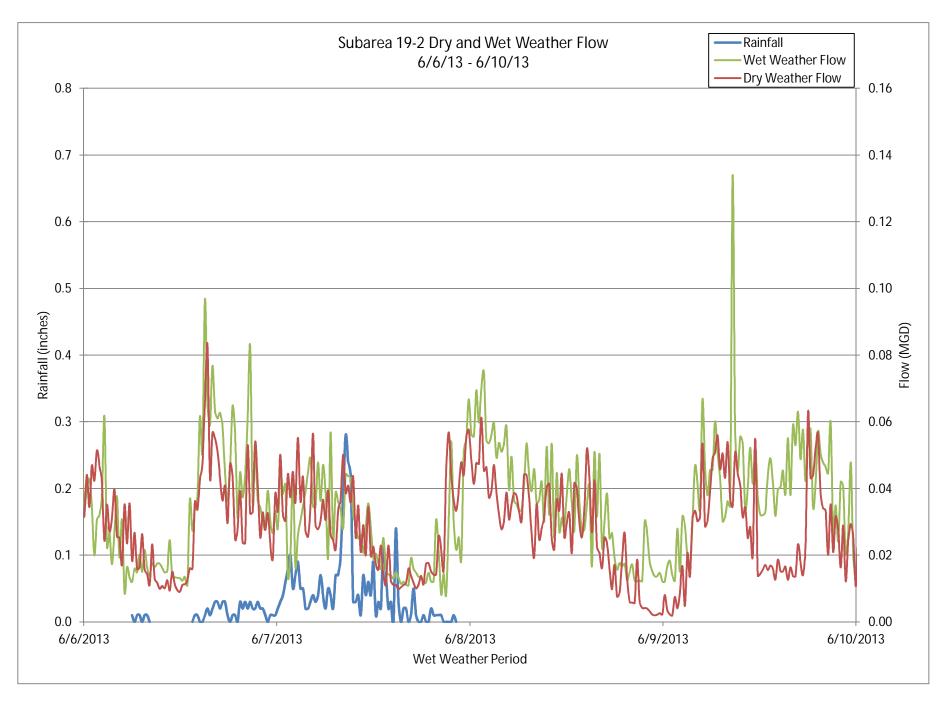


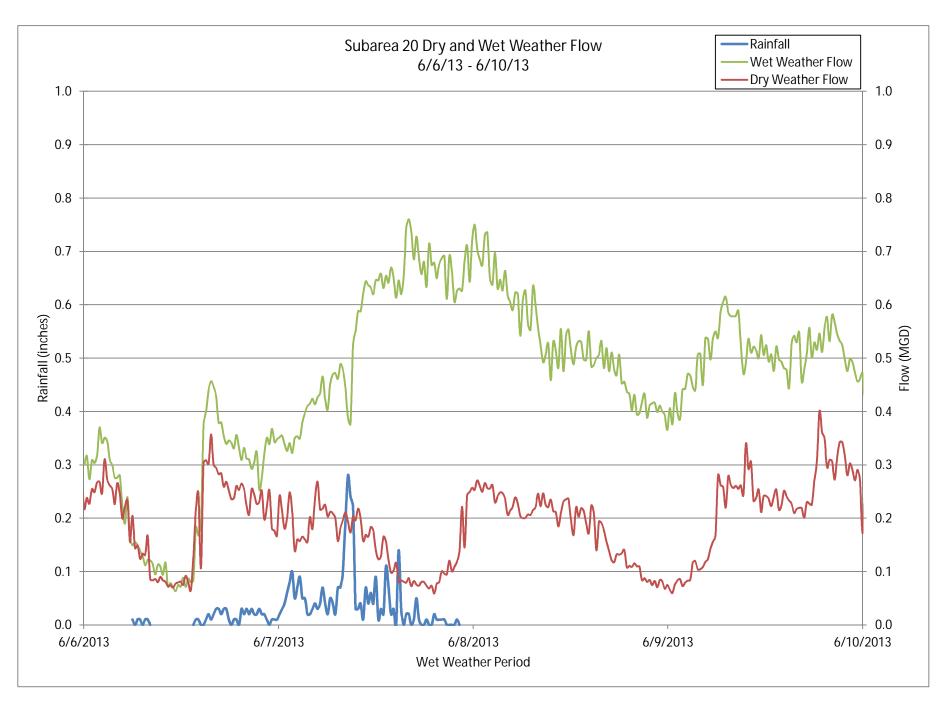


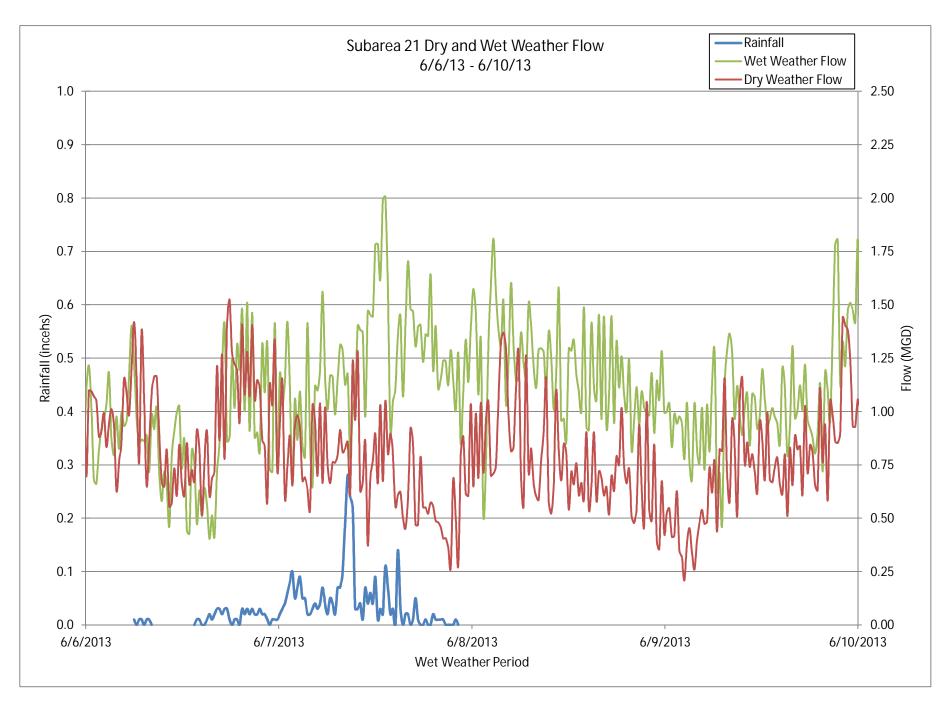


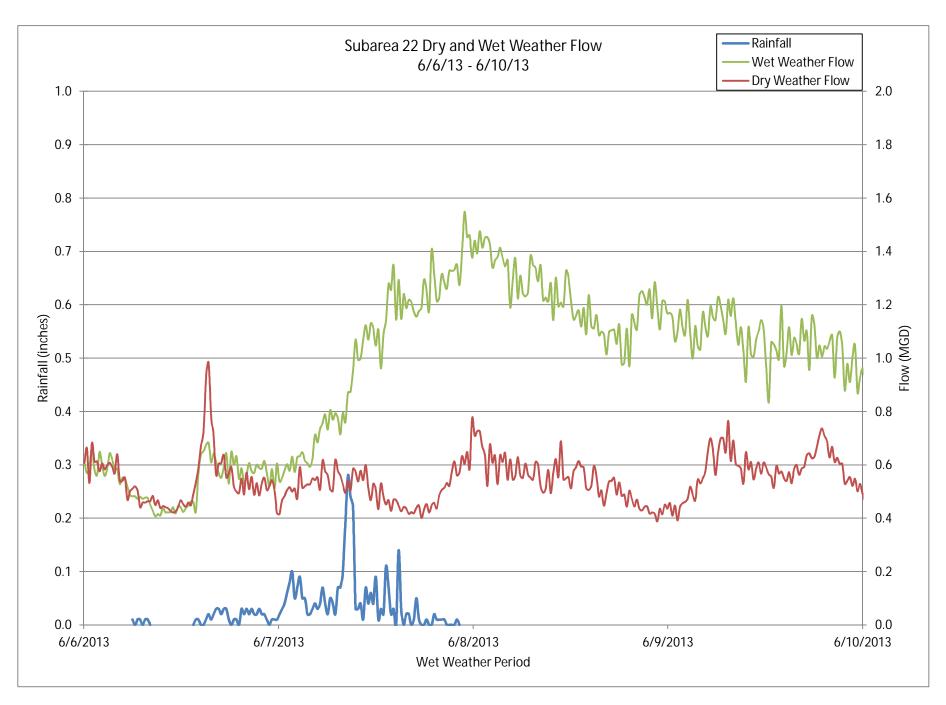


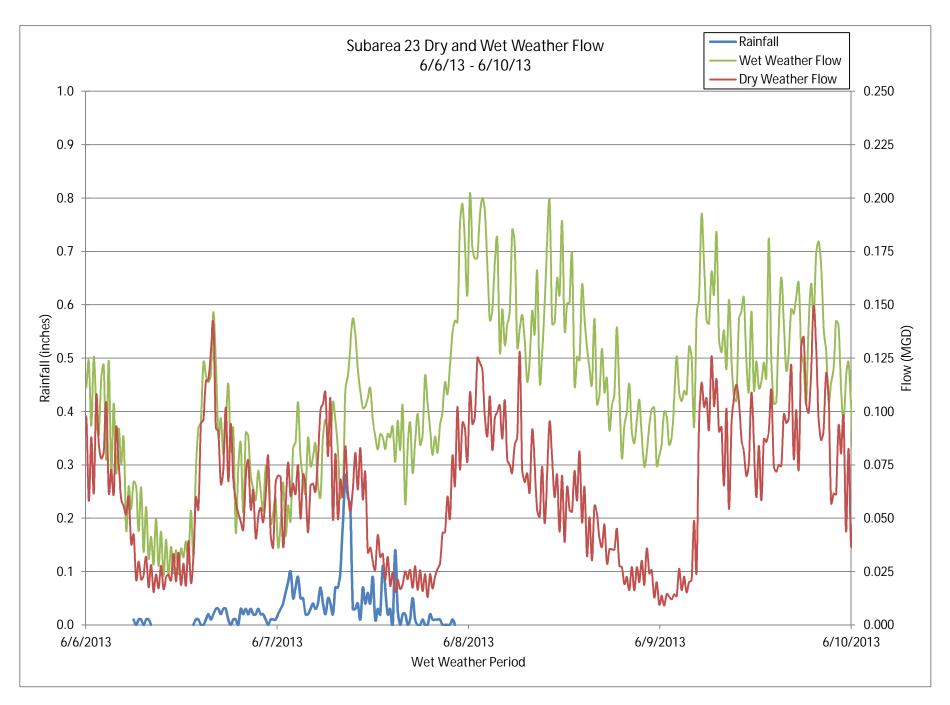


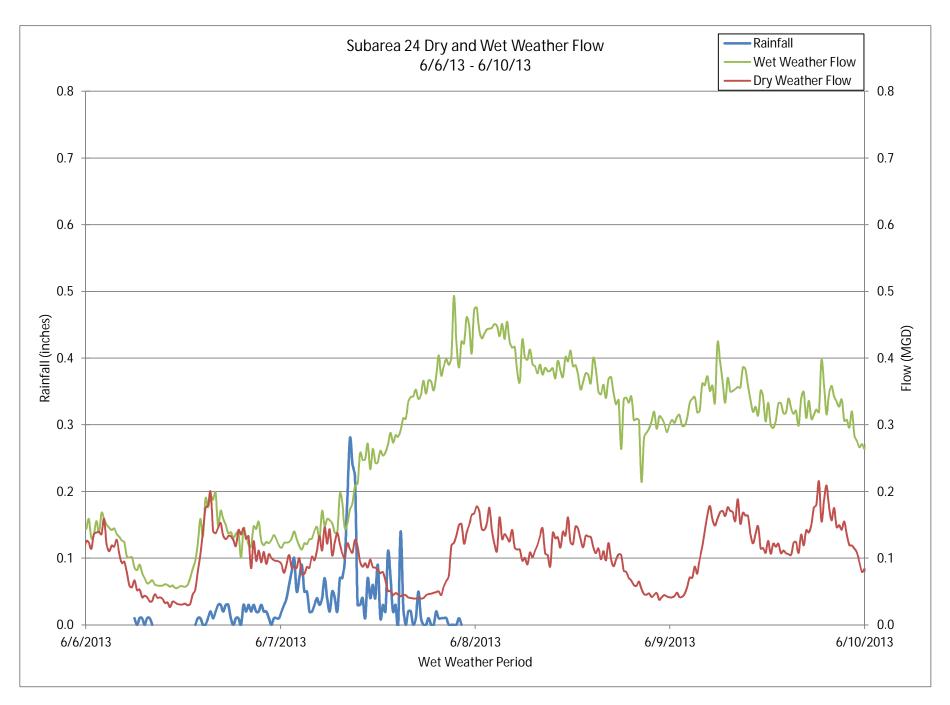


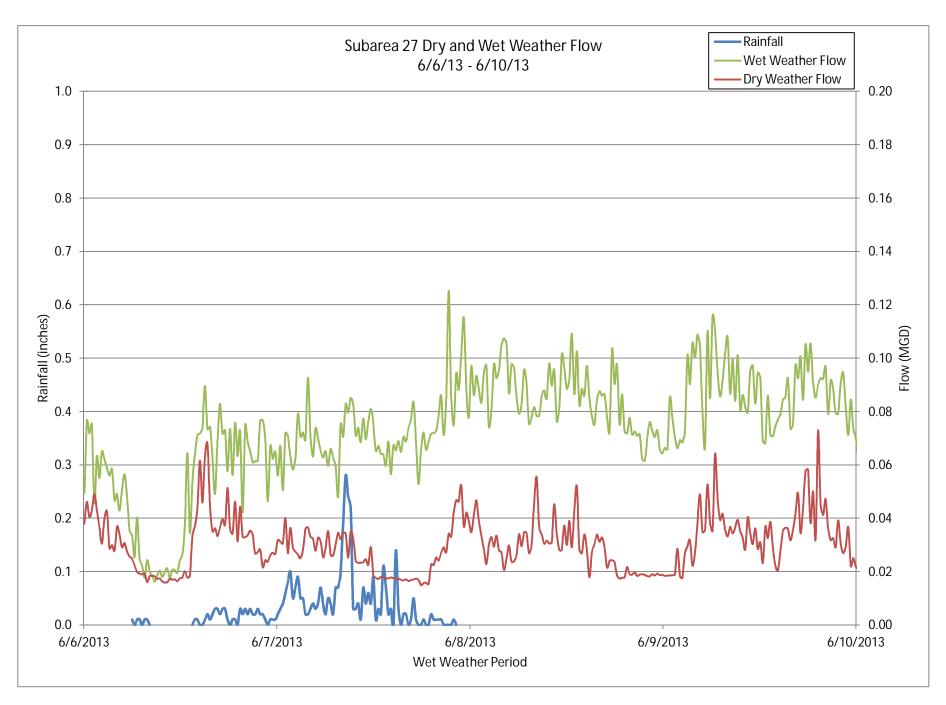


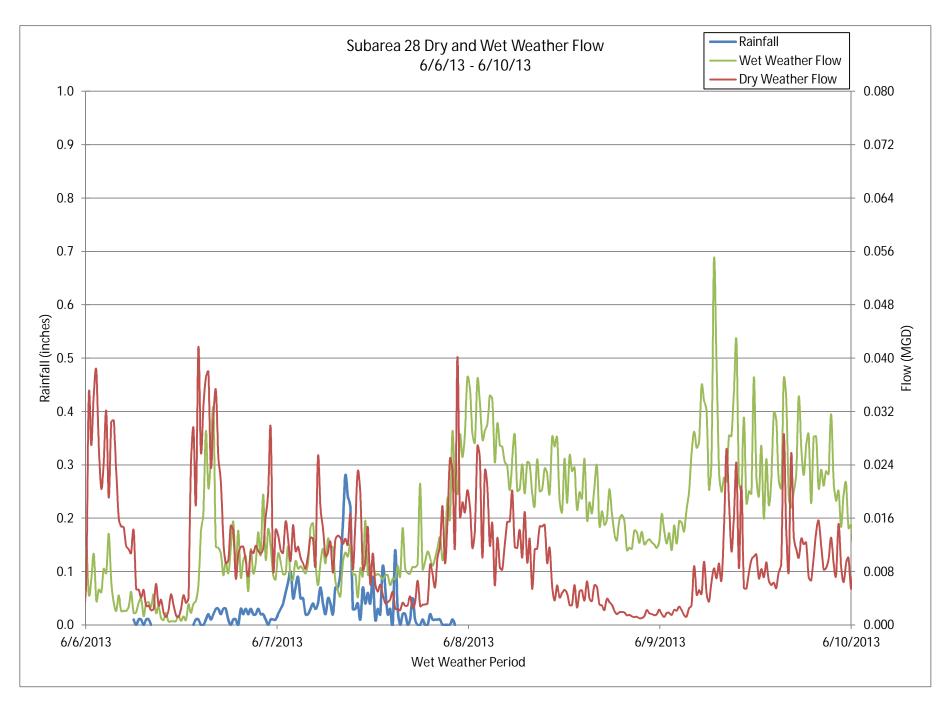


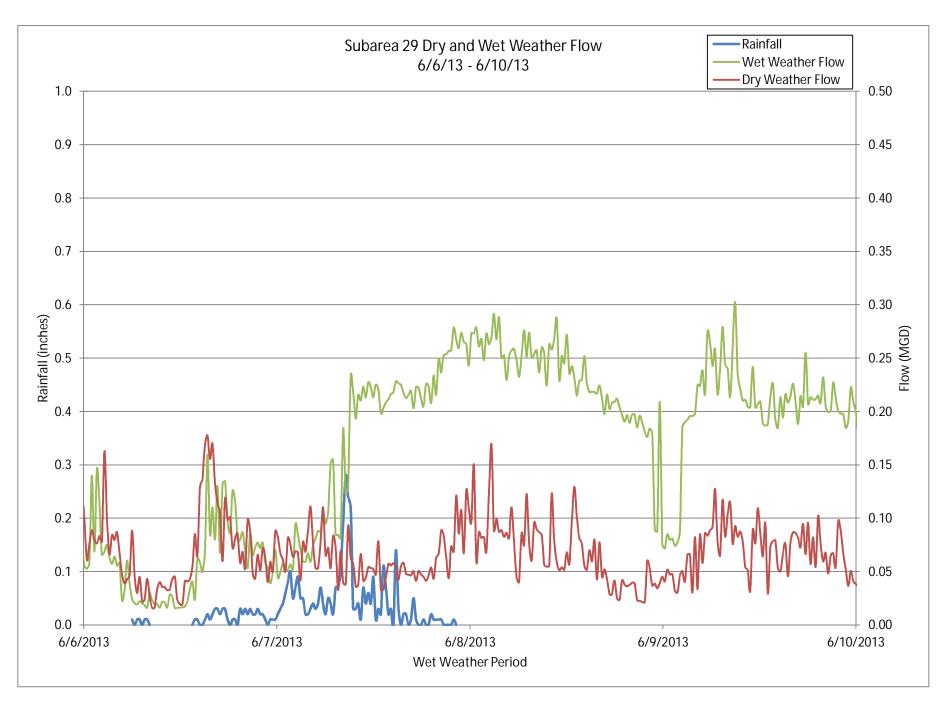


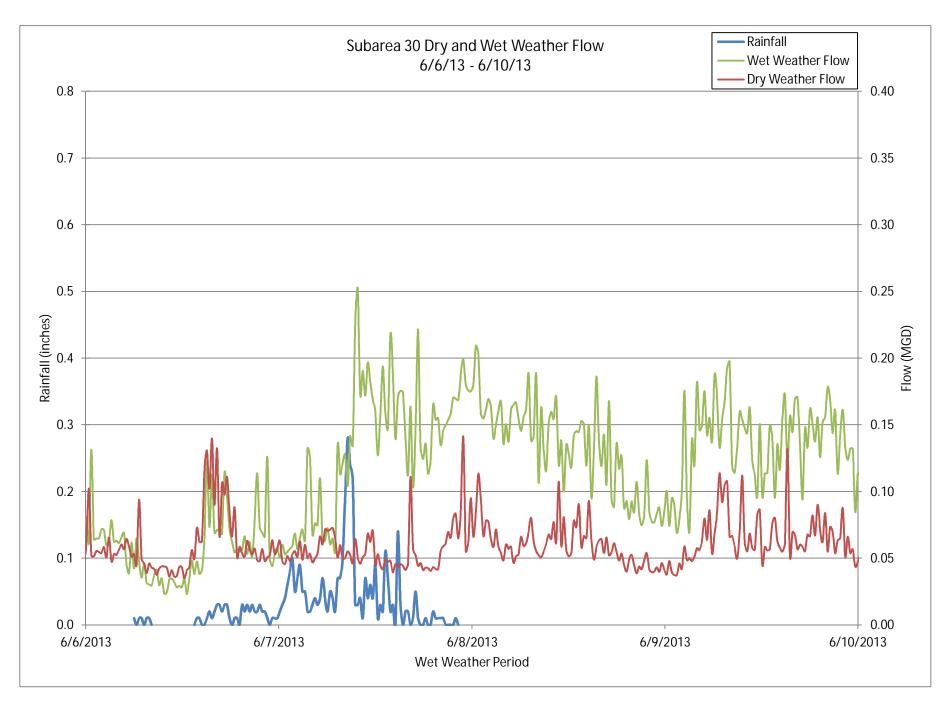


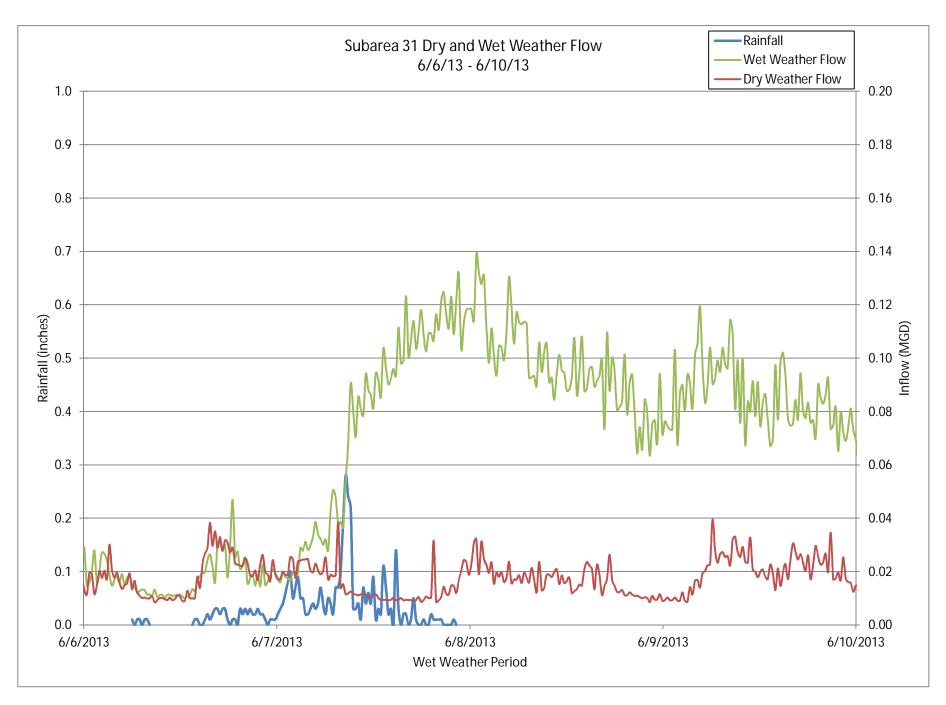


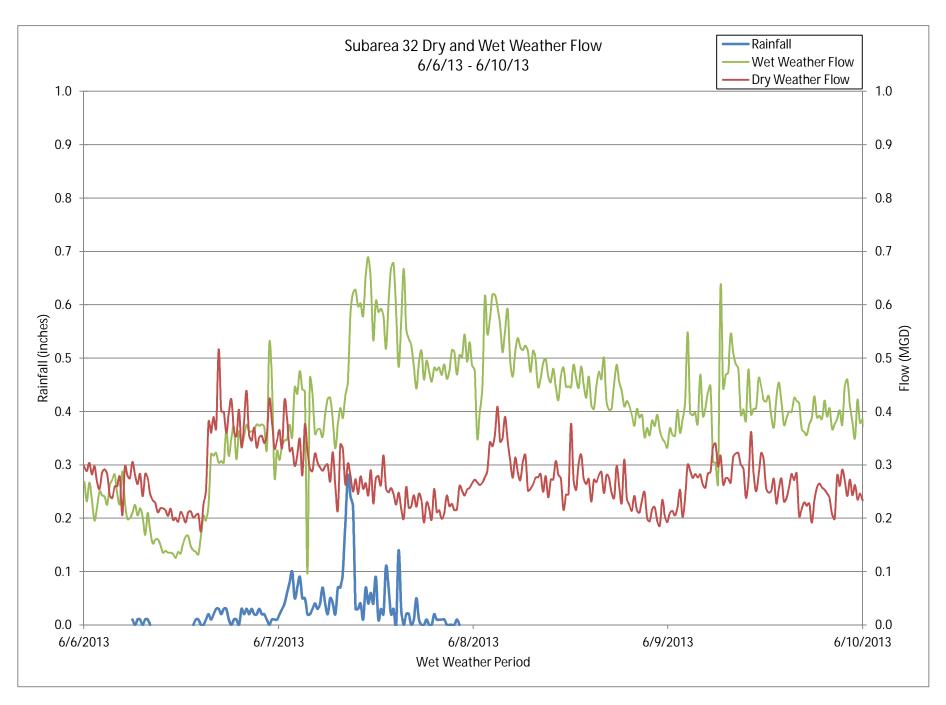


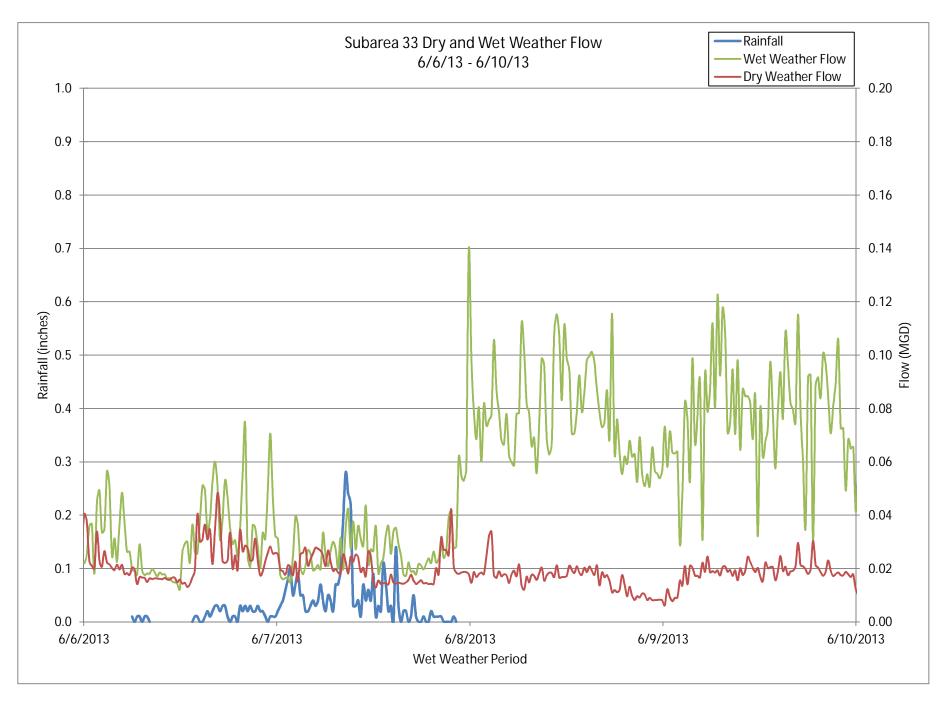


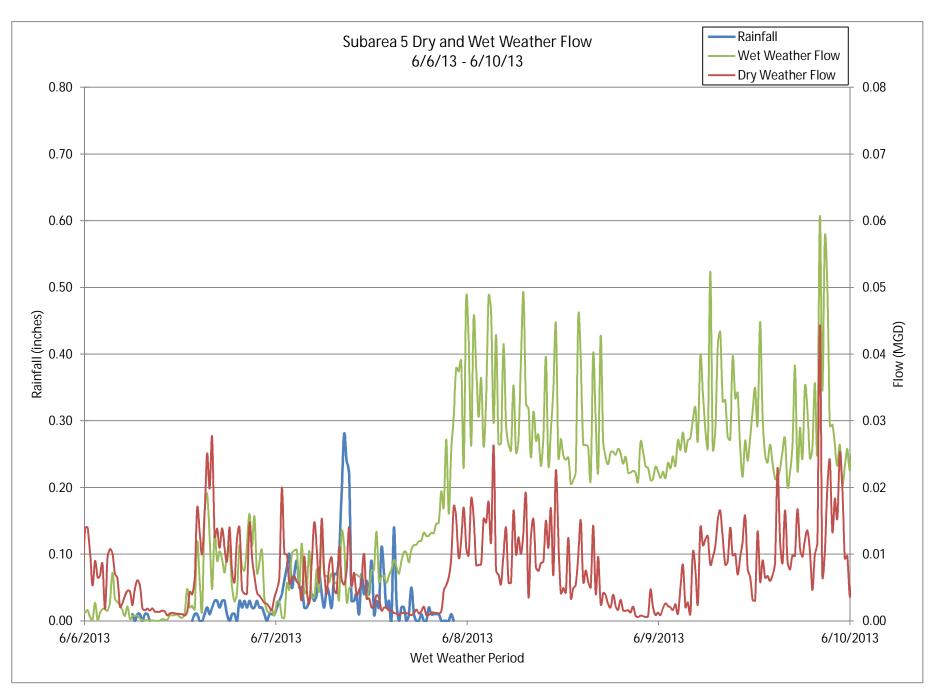




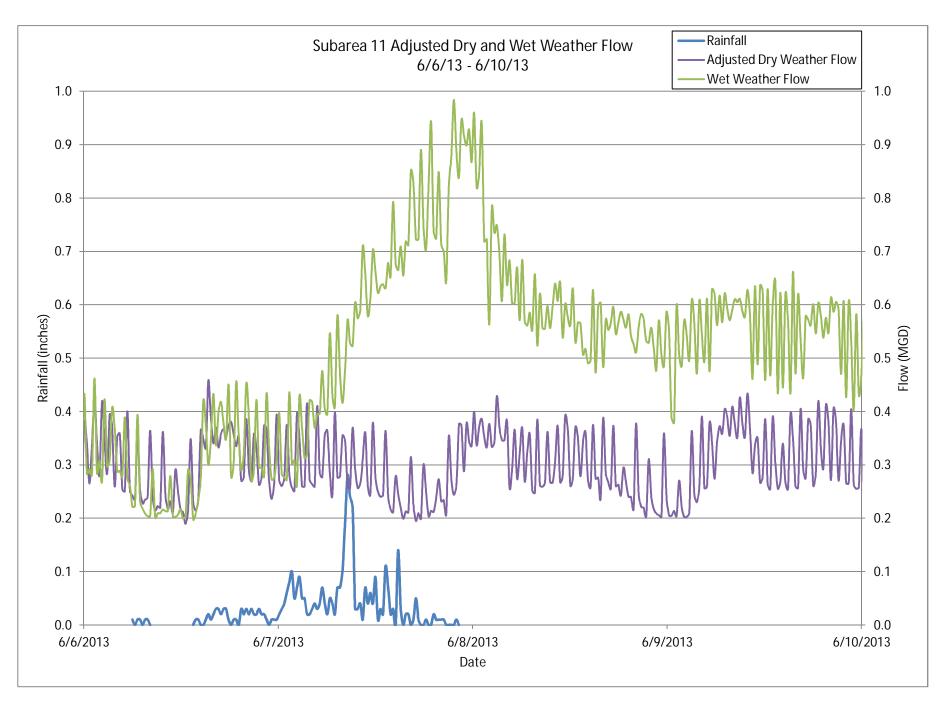


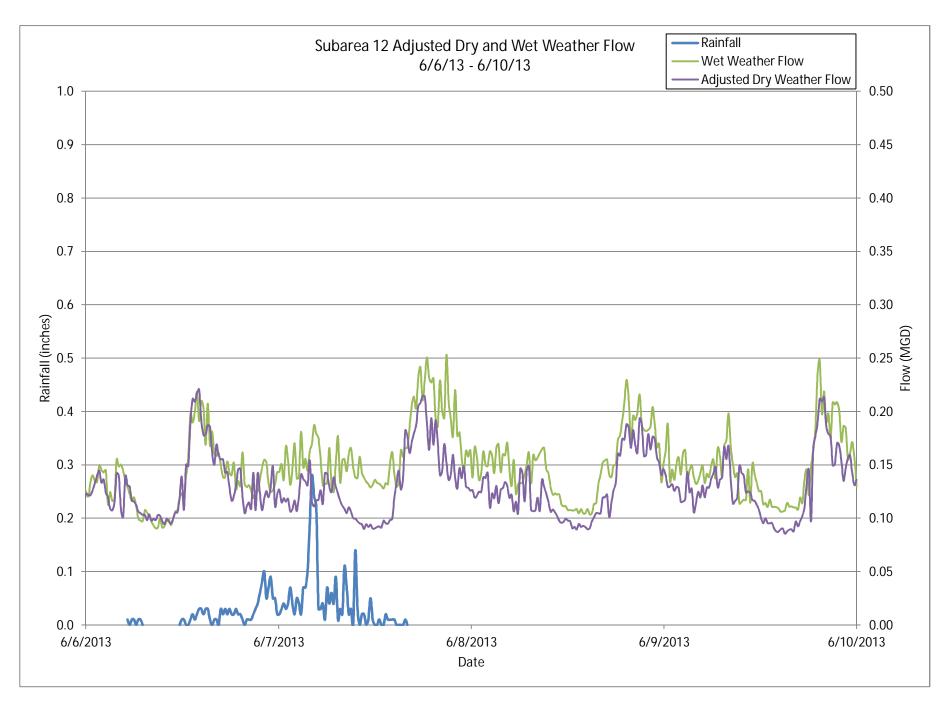


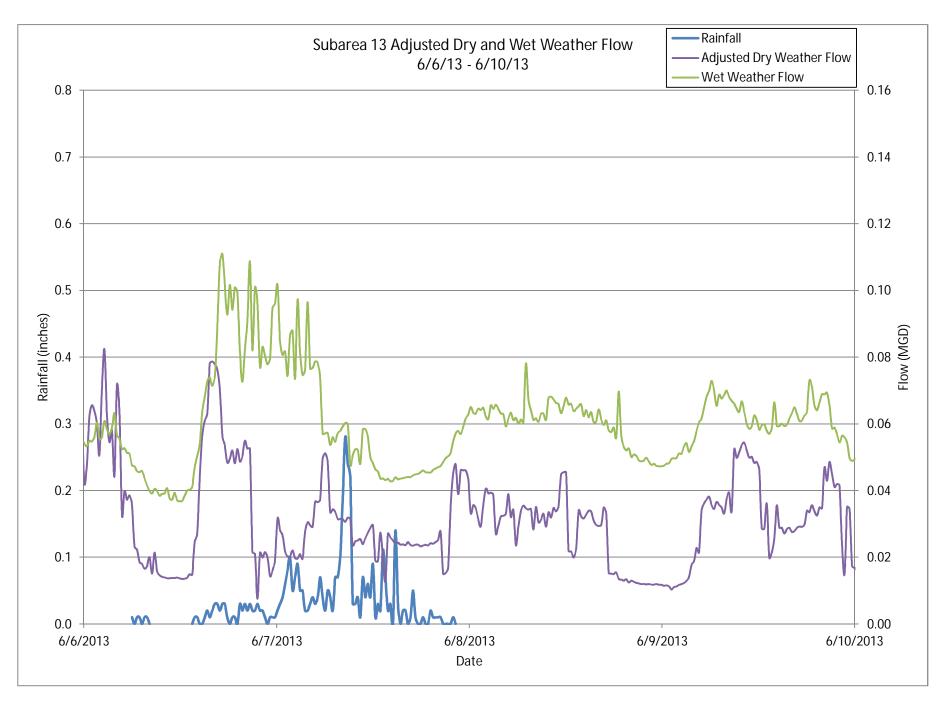


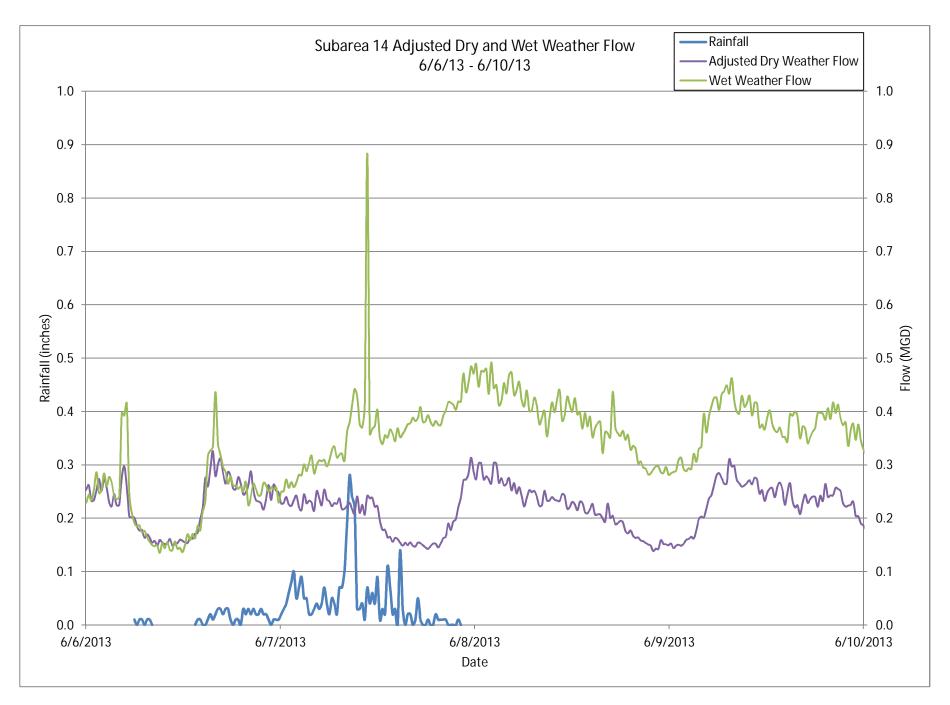


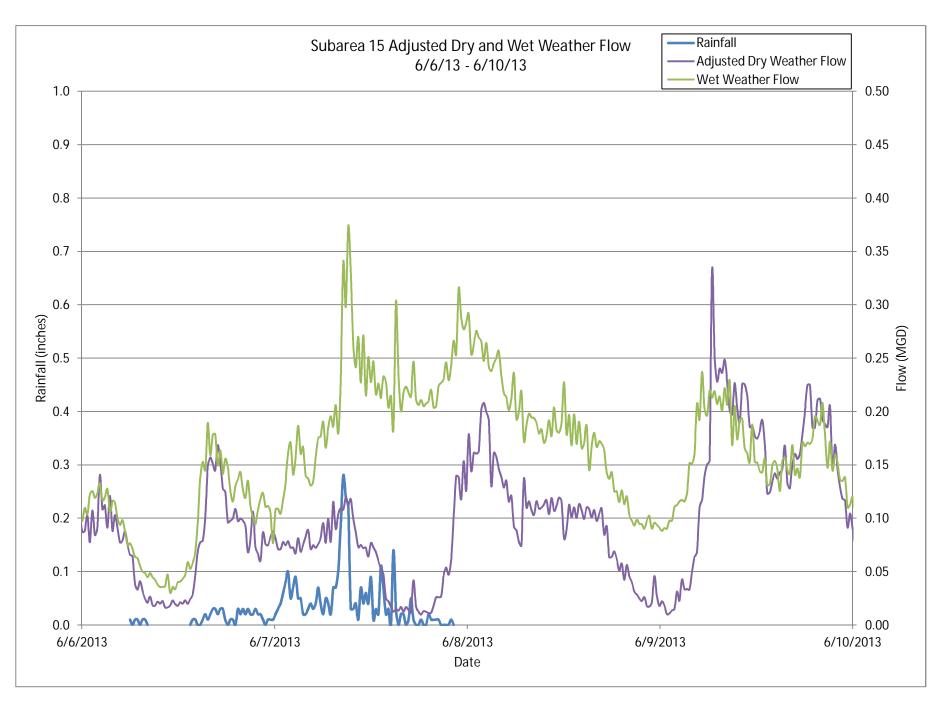
Appendix G Adjusted Dry Weather Hydrographs

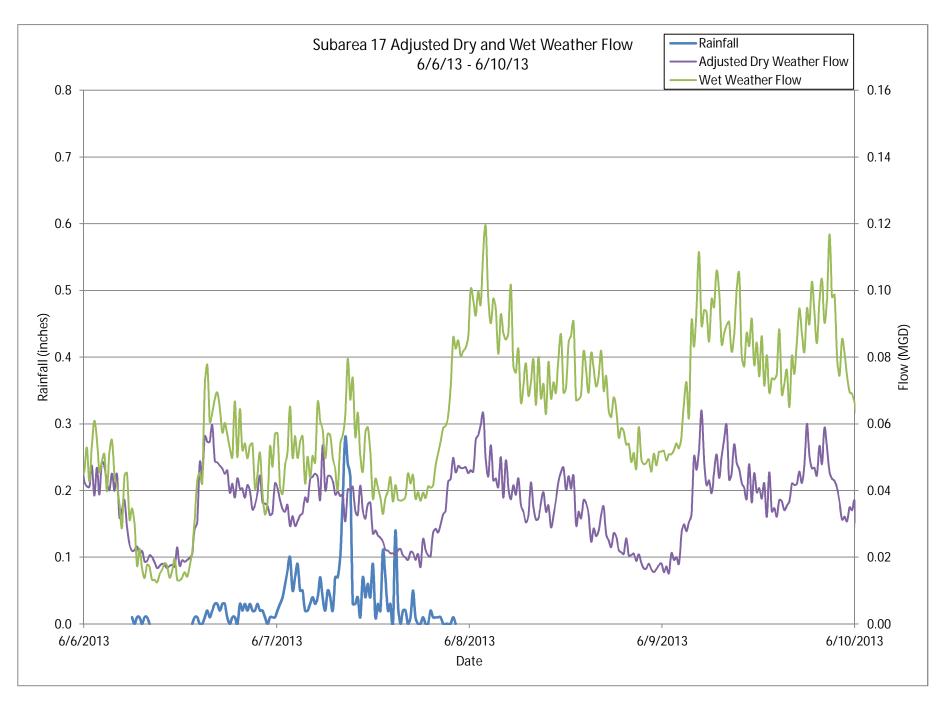


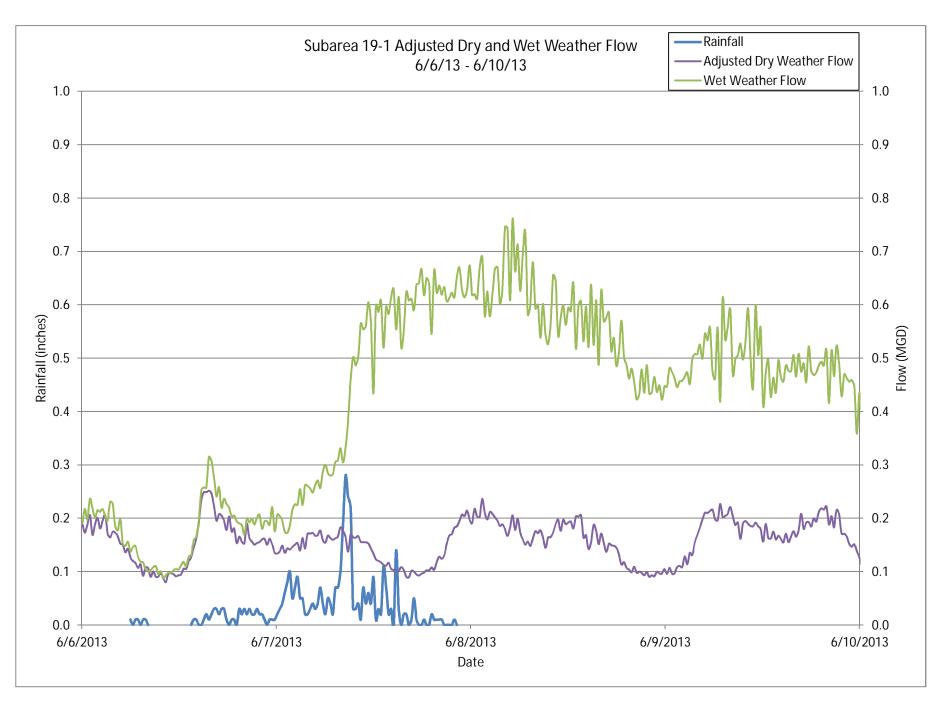


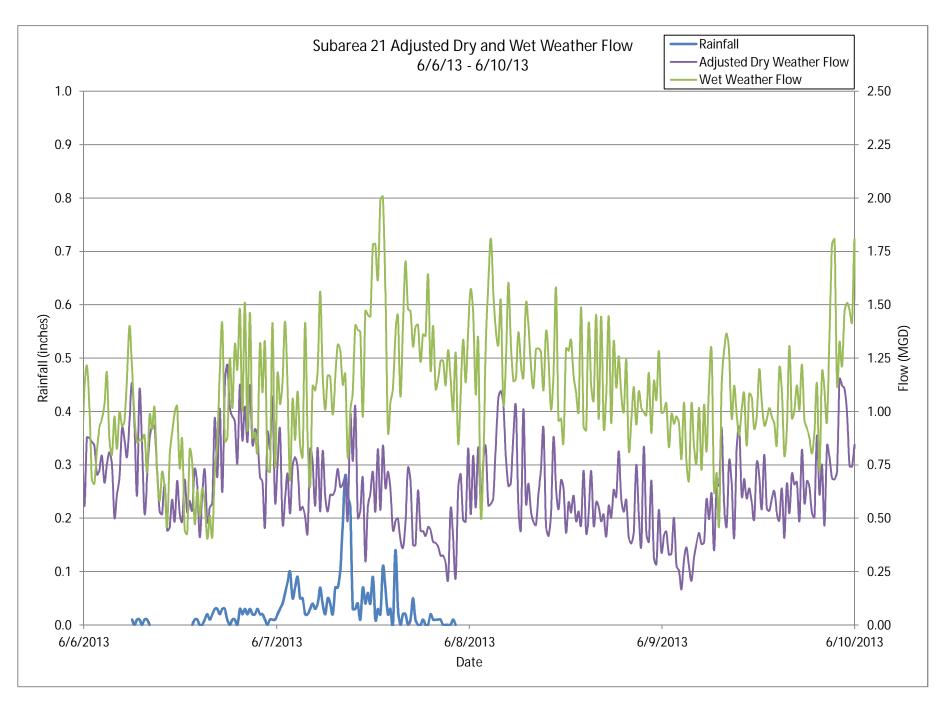


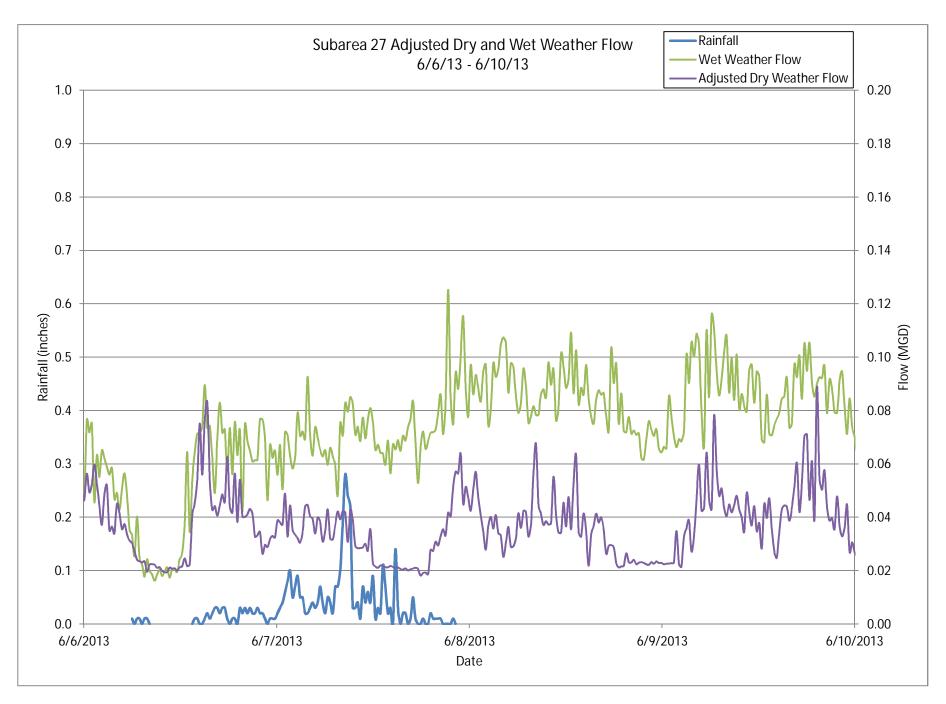


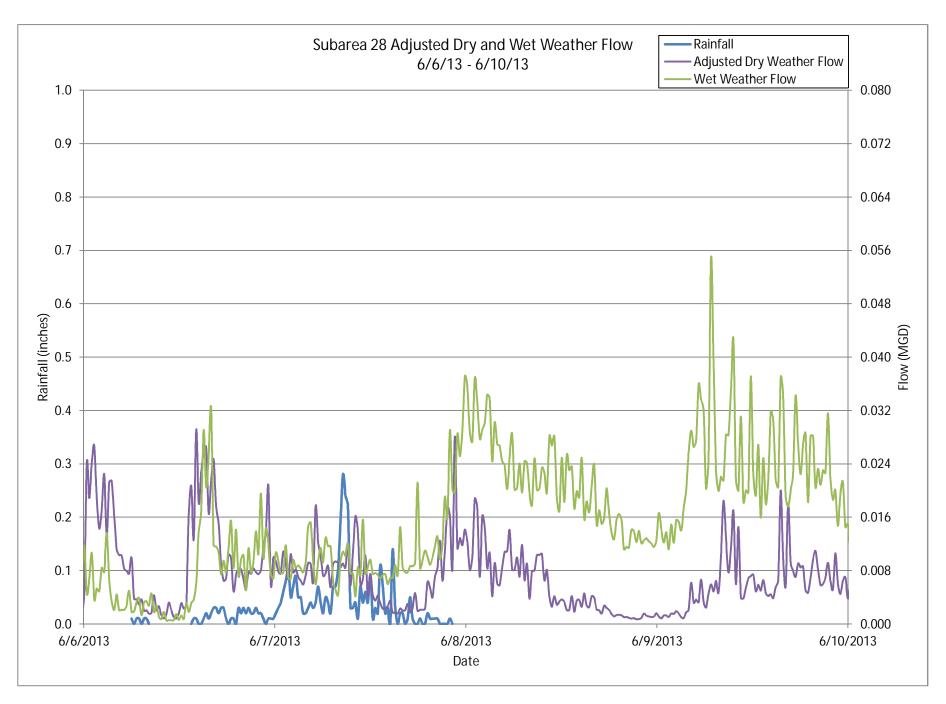


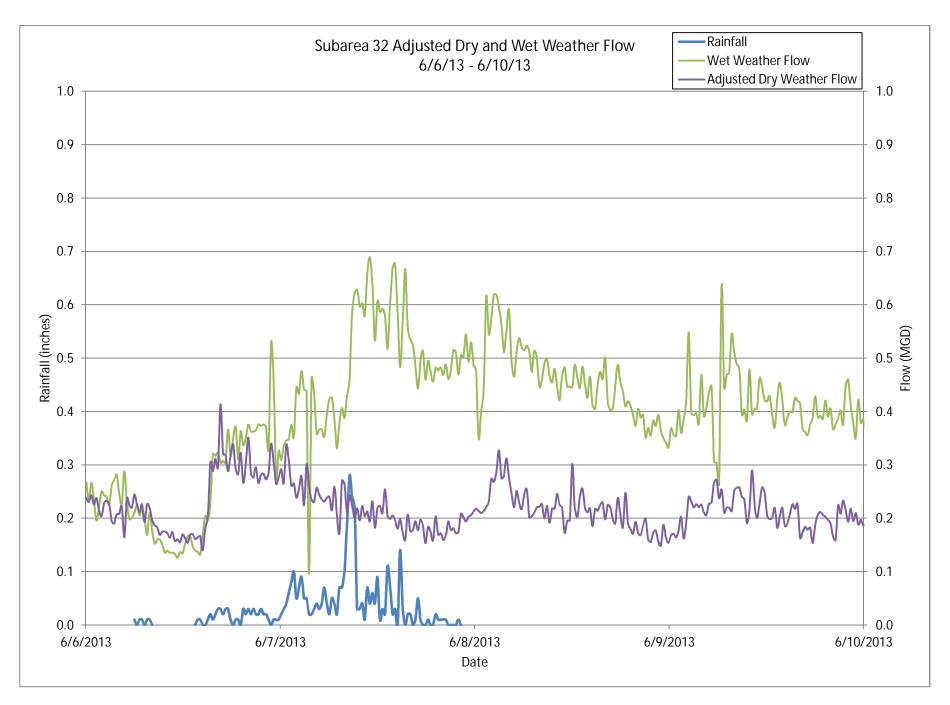












Appendix H House-to-House Inspection Results Compiled from Previous I/I Investigation Programs



STREET NO.	STREET NAME	INSPECTION YEAR	ENTRY ACHIEVED?	GROUND WATER PROBLEMS?	SUMP PUMP?	NUMBER OF SUMP PUMPS	DISCHARGE LOCATION	COMMENTS
23	MAPLE STREET	1985	Yes	No	No			
30	ABBOTT STREET	1988	Yes	No	No			
15	ALDEN ROAD	1988	Yes	No	No			SLAB MANHOLE
16	ALDEN ROAD	1988	Yes	No	No			
29	ALDEN ROAD	1985	Yes	No	No			
30	ALDEN ROAD	1988	Yes	No	No			
33	ALDEN ROAD	1988	No					
38	ALDEN ROAD	1988	Yes	No	No			SLAB MANHOLE
39	ALDEN ROAD	1985	No					
39	ALDEN ROAD	1988	Yes	No	No			
43	ALDEN ROAD	1988	Yes	No	No			SLAB MANHOLE
45	ALDEN ROAD	1985	Yes	No	No			
46	ALDEN ROAD	1988	No					
51	ALDEN ROAD	1986	Yes	No	No			
59	ALDEN ROAD	1985	Yes	No	No			
65	ALDEN ROAD	1985	Yes	No	No			
71	ALDEN ROAD	1985	Yes	No	Yes		GROUND	
90	ALDEN ROAD	1985	Yes	No	No			
105	ALDEN ROAD	1986	Yes	No	No			
140	ALDEN ROAD	1986	Yes	No	No			CLEANOUT IN GARAGE
11	ALDRIDGE ROAD	1989	Yes	No	No			
11	ALDRIDGE ROAD	2008	Yes	No				
24	ALDRIDGE ROAD	1986	Yes	No	No			
24	ALDRIDGE ROAD	2008	Yes	No				
29	ALDRIDGE ROAD	1989	Yes	No	No			
29	ALDRIDGE ROAD	2008	Yes	Yes	Yes	1	YARD	
36	ALDRIDGE ROAD	1986	Yes	No	No			
50	ALDRIDGE ROAD	1989	Yes	No	No			
55	ALDRIDGE ROAD	1989	Yes	No	No			
56	ALDRIDGE ROAD	1989	Yes	No	No			
57	ALDRIDGE ROAD	1989	Yes	No	No			
	ALDRIDGE ROAD	2008	Yes	No	No			
11	ALETHA ROAD	1988	Yes	No	No			CLEANOUT IN GARAGE
16	ALETHA ROAD	1986	Yes	No	No			CLEANOUT IN GARAGE
17	ALETHA ROAD	1988	Yes	No	No			
22	ALETHA ROAD	1988	Yes	No	No			
25	ALETHA ROAD	1988	Yes	No	Yes		GROUND	
30	ALETHA ROAD	1988	Yes	No	No			CLEANOUT IN GARAGE
33	ALETHA ROAD	1986	Yes	No	No			
36	ALETHA ROAD	1986	Yes	No	No			
42	ALETHA ROAD	1986	Yes	No	No			



45	ALETHA ROAD	1989	Yes	No	No		CLEANOUT NOT VISIBLE
50	ALETHA ROAD			INO	No		CLEANOUT NOT VISIBLE
50 54		1989	No	NI-	NI-		
	ALETHA ROAD	1988	Yes	No	No		
60	ALETHA ROAD	1988	Yes	No	No		
81	ALETHA ROAD	1988	Yes	No	No		
84	ALETHA ROAD	1988	Yes	No	No		
92	ALETHA ROAD	1986	Yes	No	No		
103	ALETHA ROAD	1986	Yes	No	No		
104	ALETHA ROAD	1986	Yes	No	No		
110	ALETHA ROAD	1988	Yes	No	No		
115	ALETHA ROAD	1986	Yes	No	No		
118	ALETHA ROAD	1989	No				
124	ALETHA ROAD	1989	No				
125	ALETHA ROAD	1989	Yes	No	No		
128	ALETHA ROAD	1986	Yes	No	No		
133	ALETHA ROAD	1989	Yes	No	Yes	SEWER	CLEANOUT IN GARAGE
5	ALFRETON ROAD	1989	No				
8	ALFRETON ROAD	1989	Yes	Yes	Yes	GROUND	
11	ALFRETON ROAD	1985	Yes	Yes	No		CAP NEEDS REPLACING, 2 HOLES IN CLEANOUT CAP
12	ALFRETON ROAD	1986	Yes	No	No		
16	ALFRETON ROAD	1985	Yes	No	No		
22	ALFRETON ROAD	1986	Yes	Yes	Yes	PLUMBING	
26	ALFRETON ROAD	1985	Yes	No	No		
43	ALFRETON ROAD	1985	Yes	No	No		
49	ALFRETON ROAD	1989	Yes	No	No		CLEANOUT NOT VISIBLE
55	ALFRETON ROAD	1989	No				
59	ALFRETON ROAD	1985	Yes	Yes	Yes	GROUND	
11	ALLEN STREET	1988	Yes	No	No		
12	ALLEN STREET	1988	No				
17	ALLEN STREET	1988	Yes	No	No		
11	AMELIA ROAD	1988	No				
12	AMELIA ROAD	1988	Yes	Yes	Yes	GROUND	
20	AMELIA ROAD	1988	Yes	No	No		
21	AMELIA ROAD	1986	No				
22	AMELIA ROAD	1986	Yes	No	No		
44	AMELIA ROAD	1988	Yes	No	No		
20	ARCH STREET	1988	Yes	No	No		
25	ARCH STREET	1988	Yes	No	No		
28	ARCH STREET	1986	Yes	No	No		
32	ARCH STREET	1988	Yes	No	Yes	GROUND	
33	ARCH STREET	1986	Yes	No	No		
38	ARCH STREET	1986	Yes	No	No		
46	ARCH STREET	1986	No				



74	ARCH STREET	1988	Yes] No	No			
80	ARCH STREET	1988	Yes	No	No			BACKFLOW VALVE
81	ARCH STREET	1989	Yes	No	No			CLEANOUT NOT VISIBLE
86	ARCH STREET	1986	Yes	No	No			
91	ARCH STREET	1987	No					
94	ARCH STREET	1988	Yes	No	No			
99	ARCH STREET	1989	No					
106	ARCH STREET	1988	Yes	No	No			CLEANOUT NOT VISIBLE
109	ARCH STREET	1989	Yes	No	No			CLEANOUT UNDER PORCH
116	ARCH STREET	1986	Yes	No	No			
121	ARCH STREET	1988	Yes	No	No			
127	ARCH STREET	1986	Yes	No	No			
3	ARDEN STREET	1988	Yes	No	No			
7	ARDEN STREET	1988	Yes	No	No			
8	ARDMORE ROAD	1986	No	.,,	1,40			
14	ARDMORE ROAD	1986	Yes	No	No			
17	ARDMORE ROAD	1986	Yes	No	No			
26	ARDMORE ROAD	1988	Yes	No	No			
29	ARDMORE ROAD	1988	Yes	No	No			
34	ARDMORE ROAD	1986	Yes	No	No			
40	ARDMORE ROAD	1988	Yes	No	No			PIPE FROM FURNACE IN SEWER CAP
56	ARDMORE ROAD	1988	No					CAI
59	ARDMORE ROAD	1988	Yes	No	No			
62	ARDMORE ROAD	2008	Yes	No	140			
63	ARDMORE ROAD	1988	Yes	No	No			
70	ARDMORE ROAD	1986	Yes	No	No			
71	ARDMORE ROAD	1988	Yes	No	No			
76	ARDMORE ROAD	1988	No	110	110			
77	ARDMORE ROAD	1986	Yes	No	No			
83	ARDMORE ROAD	1986	No	110	110			
89	ARDMORE ROAD	1988	Yes	No	No			
94	ARDMORE ROAD	1986	Yes	No	No			
95	ARDMORE ROAD	1988	No		1			
106	ARDMORE ROAD	1988	No					
120	ARDMORE ROAD	1988	Yes	No	No			
127	ARDMORE ROAD	1988	Yes	No	No			
128	ARDMORE ROAD	1988	No		1			
1	ARNOLD ROAD	1986	Yes	No	No			CLEANOUT IN GARAGE
8	ARNOLD ROAD	1988	No	1.0	1			
9				 	No	1		CLEANIOLIT IN CLOSET
9 1	ARNOLD ROAD	1988	l Yes	l No	I INO			CLEANOUT IN CLOSET
14	ARNOLD ROAD ARNOLD ROAD	1988 1988	Yes Yes	No No	No Yes		GROUND	CLEANOUT IN CLOSET
_			Yes Yes Yes		Yes		GROUND	CLEANOUT IN CLOSET



	T		T	T			T	
25	ARNOLD ROAD	1988	Yes	No	No			
30	ARNOLD ROAD	1986	Yes	No	No			
31	ARNOLD ROAD	1986	Yes	No	No			
11	AUDREY AVE	1988	Yes	No	No			
20	AUDREY AVE	1988	Yes	No	No			
28	AUDREY AVE	1988	Yes	No	No			
35	AUDREY AVE	1986	Yes	No	No			
36	AUDREY AVE	1989	No					
42	AUDREY AVE	1986	Yes	No	No			
43	AUDREY AVE	1986	Yes	No	No			
49	AUDREY AVE	1989	No					
50	AUDREY AVE	1988	Yes	No	No			
59	AUDREY AVE	1989	No					
60	AUDREY AVE	1988	Yes	No	No			CLEANOUT NOT VISIBLE
72	AUDREY AVE	1986	Yes	No	No			CLEANOUT IN GARAGE
75	AUDREY AVE	1986	Yes	No	No			
83	AUDREY AVE	1988	Yes	No	No			
6	AVALON ROAD	1985	Yes	No	No			WALKIN CELLAR, STREET LEVEL
6	AVALON ROAD	2008	Yes					DID NOT ENTER, OWNER SAID SHE DIDN'T HAVE BASEMENT OR SUMP PUMP
7	AVALON ROAD	1991	Yes	No	No			
7	AVALON ROAD	2008	Yes	No				
15	AVALON ROAD	1985	Yes	No	No			
15	AVALON ROAD	2008	Yes	No				
20	AVALON ROAD	1985	Yes	No	No			
20	AVALON ROAD	2008	Yes	No				
21	AVALON ROAD	1986	Yes	No	No			
21	AVALON ROAD	2008	Yes	Yes	Yes	1	SEWER/SINK	
29	AVALON ROAD	1986	Yes	No	No			
29	AVALON ROAD	2008	Yes	Yes				
32	AVALON ROAD	1985	Yes	Yes	No			
32	AVALON ROAD	2008	Yes	Yes	Yes	1	YARD	
35	AVALON ROAD	1985	No					
35	AVALON ROAD	2008	No					
40	AVALON ROAD	1985	Yes	Yes	Yes		SEWER	SUMP PUMP CONNECTED TO SEWER LINE
40	AVALON ROAD	2008	No					
46	AVALON ROAD	1991	No					
46	AVALON ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	
52	AVALON ROAD	1989	Yes	No	No			
52	AVALON ROAD	2008	Yes	No				
53	AVALON ROAD	1989	Yes	No	No			
						l .	l .	<u> </u>



53	AVALON ROAD	2008	Yes	No				
58	AVALON ROAD	1985	Yes	No	No			
58	AVALON ROAD AVALON ROAD	2008	Yes	No	INO			
65	AVALON ROAD	1991	Yes	Yes	Yes		GROUND	
65	AVALON ROAD AVALON ROAD	2008	Yes	Yes	Yes	1	YARD	
66	AVALON ROAD AVALON ROAD	2008	Yes	Yes	Yes	1	UNKNOWN	
3	AVALON ROAD AVERY STREET	1986	No	165	163	1	UNKNOWN	
4	AVERY STREET	1986	No					
9	AVERY STREET	1986	Yes	No	No			
14	AVERY STREET	1986	Yes	No	No			
15	AVERY STREET	1988	No	INU	INU			
19		1986		No	No			
20	AVERY STREET	1986	Yes	No	No			
27	AVERY STREET		Yes	No	No			
35	AVERY STREET	1988	No	N-	NI-			
35	AVERY STREET	1986	Yes	No	No			
	AVERY STREET	1986	Yes	No	No			
47	AVERY STREET	1988	No					CLEANIOUT DELINID WALL IN
48	AVERY STREET	1986	Yes	Yes	No			CLEANOUT BEHIND WALL IN
F2	AVERY CEREET	4000		NI.	N1 -			CELLAR BATHROOM
53	AVERY STREET	1988	Yes	No	No			CLEANOUT IN DATUBOOM
56	AVERY STREET	1986	Yes	No	No			CLEANOUT IN BATHROOM
	41/01/01/01	1000						CELLAR UNDER FLOOR
9	AVON CIRCLE	1989	No					
10	AVON CIRCLE	1989	No					
15	AVON CIRCLE	1987	Yes	No	No			
18	AVON CIRCLE	1987	No					
24	AVON CIRCLE	1989	No					
28	AVON CIRCLE	1989	Yes	No	No			
32	AVON CIRCLE	1989	Yes	No	No			
37	AVON CIRCLE	1989	No					
41	AVON CIRCLE	1989	No					
42	AVON CIRCLE	1989	Yes	No	No			
48	AVON CIRCLE	1989	Yes	No	No			CLEANOUT IN GARAGE
51	AVON CIRCLE	1989	Yes	No	No			
56	AVON CIRCLE	1989	Yes	No	No			
58	AVON CIRCLE	1987	Yes	Yes	Yes		GROUND	
64	AVON CIRCLE	1989	Yes	No	No			
67	AVON CIRCLE	1989	Yes	No	No			
72	AVON CIRCLE	1987	Yes	No	No			
75	AVON CIRCLE	1989	No					
4	BANCROFF STREET	1988	Yes	Yes	Yes		GROUND	
21	BANCROFF STREET	1986	Yes	No	No			
33	BANCROFF STREET	1986	Yes	No	No			
39	BANCROFF STREET	1988	Yes	No	No			



40	BANCROFF STREET	1988	Vas	I No	No		1	
	BARBARA ROAD	1988	Yes	No	No			
26 32	BARBARA ROAD	1988	No Yes	No	No			
					No			
38	BARBARA ROAD	1987	Yes	No	No			CLEANOUT IN CARACE
39	BARBARA ROAD	1987	Yes	No	No			CLEANOUT IN GARAGE
46	BARBARA ROAD	1988	No					
47	BARBARA ROAD	1988	Yes	No	No			
52	BARBARA ROAD	1988	Yes	No	No			
56	BARBARA ROAD	1988	No					NOT ON SEWER SYSTEM, HAS CESSPOOL
14	BARRETT STREET	1985	Yes	No	Yes		GROUND	
14	BARRETT STREET	2008	Yes	Yes	Yes	2	YARD	
15	BARRETT STREET	1986	Yes	No	No			
15	BARRETT STREET	2008	Yes	Yes	Yes	1	YARD	
19	BARRETT STREET	1986	Yes	No	No			
19	BARRETT STREET	2008	No					
22	BARRETT STREET	1985	Yes	No	No			
22	BARRETT STREET	2008	Yes	No	Yes	2	YARD	
25	BARRETT STREET	1989	Yes	No	No	_		
25	BARRETT STREET	2008	No					
30	BARRETT STREET	2008	Yes					WORKS MWRA HAS A SUMP PUMP
31	BARRETT STREET	1989	Yes	No	No			FOIVIF
31	BARRETT STREET	1909	163	INO	INU		OWNED CAVE TO TOWN	
31	BARRETT STREET	2008	Yes	Yes	Yes	2	OWNER SAYS TO TOWN DRAIN	NO STORM DRAINS ON STREET
36	BARRETT STREET	1985	Yes	No	No			
36	BARRETT STREET	2008	Yes	No				
37	BARRETT STREET	1991	Yes	No				
37	BARRETT STREET	2008	Yes	Yes	Yes	2	YARD	
41	BARRETT STREET	1986	Yes	No	No			
41	BARRETT STREET	2008	No					
44	BARRETT STREET	1985	Yes	Yes	Yes		GROUND	
44	BARRETT STREET	2008	No					
50	BARRETT STREET	1991	No					
50	BARRETT STREET	2008	Yes	Yes	Yes	2	UNK	HOUSE 2 YEARS OLD
53	BARRETT STREET	1986	Yes	No	No			
53	BARRETT STREET	2008	Yes					SURFACE PUMP USES ONCE A YEAR
74	BARRETT STREET	1985	Yes	No	No			
74	BARRETT STREET	2008	Yes	No				
79	BARRETT STREET	1986	Yes	Yes	No			
79	BARRETT STREET	2008	Yes					
80	BARRETT STREET	1986	Yes	No	No			



86	BARRETT STREET	1985	Yes	Yes	No			
86	BARRETT STREET	2008	Yes	No				NO SUMP PUMP
87	BARRETT STREET	1985	Yes	No	No			CLEANOUT NOT VISIBLE
87	BARRETT STREET	2008	No					
92	BARRETT STREET	1986	Yes	Yes	No			BACK WATER VALVE
92	BARRETT STREET	2008	No					
93	BARRETT STREET	1991	Yes	No	No			
93	BARRETT STREET	2008	No					
99	BARRETT STREET	1985	Yes	No	No			
99	BARRETT STREET	2008	Yes	No				
100	BARRETT STREET	1985	Yes	Yes	Yes		GROUND	SUMP PUMP IN STAIRWELL IN REAR
100	BARRETT STREET	2008	Yes	Yes	Yes	2	1 TO YARD, 1 TO DRAIN	
106	BARRETT STREET	1986	Yes	Yes	No			SEWER CAP OFF
106	BARRETT STREET	2008	No					
107	BARRETT STREET	1986	Yes	No	No			
107	BARRETT STREET	2008	No					
112	BARRETT STREET	1986	Yes	No	No			
112	BARRETT STREET	2008	Yes	No				
118	BARRETT STREET	1989	Yes	No	No			CLEANOUT NOT VISIBLE
118	BARRETT STREET	2008	No					
119	BARRETT STREET	1991	No					
119	BARRETT STREET	2008	Yes	Yes	Yes	1	NOT CONNECTED	
7	BEAUFORT AVE	1988	Yes	No	No			
10	BEAUFORT AVE	1986	Yes	No	No			
14	BEAUFORT AVE	1986	Yes	No	No			
15	BEAUFORT AVE	1988	Yes	No	No			
19	BEAUFORT AVE	1986	Yes	No	No			
20	BEAUFORT AVE	1986	Yes	No	No			
24	BEAUFORT AVE	1989	No					
25	BEAUFORT AVE	1986	Yes	No	No			
31	BEAUFORT AVE	1986	Yes	No	No			
32	BEAUFORT AVE	1988	Yes	Yes	Yes		GROUND	
35	BEAUFORT AVE	1986	Yes	No	Yes		GROUND	
36	BEAUFORT AVE	1988	Yes	No	No			
40	BEAUFORT AVE	1989	Yes	No	No			
41	BEAUFORT AVE	1986	Yes	No	No			
46	BEAUFORT AVE	1989	Yes	No	Yes		GROUND	
47	BEAUFORT AVE	1986	Yes	No	Yes		GROUND	
52	BEAUFORT AVE	1987	Yes	No	Yes		GROUND	
53	BEAUFORT AVE	1989	No					
58	BEAUFORT AVE	1986	Yes	Yes	Yes		SINK	
59	BEAUFORT AVE	1986	Yes	No	No			
62	BEAUFORT AVE	1989	Yes	Yes	Yes		GROUND	



65	BEAUFORT AVE	1989	Yes	No	No			
72	BEAUFORT AVE	1988	Yes	No	No			
81	BEAUFORT AVE	1988	Yes	Yes	Yes		GROUND	
82	BEAUFORT AVE	1988	Yes	No	No		GROOND	
87	BEAUFORT AVE	1988	Yes	Yes	Yes		GROUND	
93	BEAUFORT AVE	1986	Yes	No	Yes		SINK	
94	BEAUFORT AVE	1988	No	140	103		SHAK	
99	BEAUFORT AVE	1986	Yes	No	No			
104	BEAUFORT AVE	1988	No	110	110			
105	BEAUFORT AVE	1986	Yes	No				
114	BEAUFORT AVE	1986	Yes	No	No			
115	BEAUFORT AVE	1988	Yes	No	No			
123	BEAUFORT AVE	1988	Yes	No	No			
157	BEAUFORT AVE	1986	Yes	No	No			
158	BEAUFORT AVE	1986	Yes	No	No			
164	BEAUFORT AVE	1988	Yes	No	No			
165	BEAUFORT AVE	1988	Yes	No	No			
170	BEAUFORT AVE	1988	Yes	No	No			
175	BEAUFORT AVE	1988	No	-				
1	BEECH STREET	1986	Yes	No	No			
9	BEECH STREET	1988	No	-				
10	BEECH STREET	1986	Yes	No	No			
13	BEECH STREET	1986	Yes	No	No			
14	BEECH STREET	1986	Yes	No	No			
16	BEECH STREET	1988	Yes	No	No			
19	BEECH STREET	1986	Yes	No	No			CLEANOUT UNDER FLOOR
27	BEECH STREET	1988	Yes	No	No			
33	BEECH STREET	1986	Yes	No	No			
11	BELLEVUE DRIVE	2008	Yes					
14	BELLEVUE DRIVE	2008	Yes	Yes	Yes	2	SEWER	
19	BELLEVUE DRIVE	2008	Yes	Yes	Yes	1	HOSED TO YARD	
20	BELLEVUE DRIVE	2008	Yes	No				
28	BELLEVUE DRIVE	2008	Yes					
7	BENNISTON STREET	1986	Yes	No	No			
13	BENNISTON STREET	1989	Yes	No	No			
14	BENNISTON STREET	1985	Yes	No	No			
19	BENNISTON STREET	1989	No					
20	BENNISTON STREET	1989	Yes	No	No			
25	BENNISTON STREET	1986	Yes	No	No			
26	BENNISTON STREET	1985	Yes	No	No			
31	BENNISTON STREET	1985	Yes	No	No			
32	BENNISTON STREET	1985	Yes	No	No			
37	BENNISTON STREET	1986	Yes	No	No			
38	BENNISTON STREET	1985	Yes	No	No			



44	BENNISTON STREET	1985	Yes	No	No		
45	BENNISTON STREET	1986	Yes	No	No		
15	BERKSHIRE ROAD	1986	Yes	No	No		
23	BERKSHIRE ROAD	1986	No	NO	INO		
24	BERKSHIRE ROAD	1986	Yes	No	No		
30	BERKSHIRE ROAD	1986	Yes	No	No		
34	BERKSHIRE ROAD	1986	Yes	No	No		
35	BERKSHIRE ROAD	1986	Yes	No	No		
40	BERKSHIRE ROAD	1986	Yes	No	No		
43	BERKSHIRE ROAD	1986	No	NO	140		
48	BERKSHIRE ROAD	1986	Yes	No	No		
49	BERKSHIRE ROAD	1986	Yes	No	No		
55	BERKSHIRE ROAD	1986	Yes	No	No		
56	BERKSHIRE ROAD	1986	Yes	No	No		
61	BERKSHIRE ROAD	1986	Yes	No	No		
64	BERKSHIRE ROAD	1986	Yes	No	No		
67	BERKSHIRE ROAD	1986	Yes	No	No		
73	BERKSHIRE ROAD	1986	Yes	No	No		
74	BERKSHIRE ROAD	1986	Yes	No	No		
81	BERKSHIRE ROAD	1986	Yes	No	No		
84	BERKSHIRE ROAD	1986	Yes	No	No		
10	BESS ROAD	1986	Yes	No	No		
11	BESS ROAD	1986	Yes	No	No		
16	BESS ROAD	1986	Yes	No	No		
17	BESS ROAD	1986	Yes	No	No		
24	BESS ROAD	1988	Yes	No	No		
25	BESS ROAD	1988	Yes	No	No		
31	BESS ROAD	1986	Yes	No	No		
32	BESS ROAD	1988	Yes	No	No		
40	BESS ROAD	1986	Yes	No	No		
44	BESS ROAD	1988	Yes	No	No		
49	BESS ROAD	1986	Yes	No	No		
52	BESS ROAD	1988	Yes	No	No		
57	BESS ROAD	1988	Yes	No	No		
66	BESS ROAD	1986	Yes	No	No		
76	BESS ROAD	1988	Yes	Yes	No		
81	BESS ROAD	1986	Yes	No	No		
84	BESS ROAD	1986	Yes	No	No		
9/11	BIRCH STREET	1987	No				
12/14	BIRCH STREET	1987	Yes	No	No		
15/17	BIRCH STREET	1987	Yes	No	No		
20/22	BIRCH STREET	1987	No				
21/23	BIRCH STREET	1987	Yes	No	No		
26/28	BIRCH STREET	1987	Yes	No	No		



27/29	BIRCH STREET	1987	Yes	No	No			
33/35	BIRCH STREET	1987	Yes	No	No			
34/36	BIRCH STREET	1987		No	No			
41/43	BIRCH STREET	1987	Yes Yes	No	No			
42/44	BIRCH STREET	1987		No				
42/44	BIRCHWOOD ROAD	2008	Yes No	INO	No			
4	BIRCHWOOD ROAD	2008	INO				OWNER SAYS TO FRENCH	
7	BIRCHWOOD ROAD	2008	Yes	Yes	Yes	1	DRAIN	
10	BIRCHWOOD ROAD	1986	Yes	No	No			
10	BIRCHWOOD ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	
15	BIRCHWOOD ROAD	1986	Yes	No	No			
15	BIRCHWOOD ROAD	2008	No					
16	BIRCHWOOD ROAD	1986	Yes	No	No			
16	BIRCHWOOD ROAD	2008	Yes	No				
24	BIRCHWOOD ROAD	1986	Yes	No	No			
53	BIRD STREET	1986	No					
56	BIRD STREET	1986	Yes	No	No			
63	BIRD STREET	1988	Yes	No	No			
64	BIRD STREET	1988	Yes	No	No			CLEANOUT NOT VISIBLE
70	BIRD STREET	1986	Yes	No	No			
75	BIRD STREET	1986	Yes	No	No			
78	BIRD STREET	1986	Yes	No	No			
83	BIRD STREET	1986	Yes	No	No			
89	BIRD STREET	1986	Yes	No	No			
95	BIRD STREET	1986	Yes	No	No			
98	BIRD STREET	1986	No					
101	BIRD STREET	1986	No					
104	BIRD STREET	1986	Yes	No	No			
107	BIRD STREET	1986	Yes	No	No			
115	BIRD STREET	1986	Yes	No	Yes			
119	BIRD STREET	1984	No					
131	BIRD STREET	1986	Yes	No	No			CLEANOUT NOT VISIBLE
6	BIRDS HILL AVE	1986	Yes	No	No			BACK WATER VALVE
9	BIRDS HILL AVE	1988	Yes	No	No			
12	BIRDS HILL AVE	1988	Yes	No	No			
18	BIRDS HILL AVE	1988	Yes	No	No			CLEANOUT IN GARAGE
19	BIRDS HILL AVE	1988	Yes	No	No			
27	BIRDS HILL AVE	1988	Yes	No	Yes		GROUND	
31	BIRDS HILL AVE	1986	Yes	No	No			
34	BIRDS HILL AVE	1986	Yes	No	No			
38	BIRDS HILL AVE	1986	Yes	No	No			
39	BIRDS HILL AVE	1988	No					
45	BIRDS HILL AVE	1988	Yes	Yes	Yes		GROUND	
46	BIRDS HILL AVE	1986	Yes	No	No			



51	BIRDS HILL AVE	1988	Yes	No	No			
57	BIRDS HILL AVE	1988	Yes	No	No			
63	BIRDS HILL AVE	1988	No	INO	INO			
64	BIRDS HILL AVE	1988	Yes	No	No			
70	BIRDS HILL AVE	1988	Yes	Yes	Yes		GROUND	
75	BIRDS HILL AVE	1986	Yes	No	No		GROOND	
78	BIRDS HILL AVE	1988	Yes	No	No			
89	BIRDS HILL AVE	1986	Yes	No	No			
95	BIRDS HILL AVE	1988	No	INO	INO			
102	BIRDS HILL AVE	1986	Yes	No	No			
102	BIRDS HILL AVE	1986	Yes	No	No			
105	BIRDS HILL AVE	1986	Yes	No	No			
103	BIRDS HILL AVE	1986	Yes	No	No			
111	BIRDS HILL AVE	1988	No	INO	INU			
112	BIRDS HILL AVE	1986	Yes	No	No			
112	BIRDS HILL AVE	1986	Yes	No	No			
125	BIRDS HILL AVE	1988	No	INO	INU			
130	BIRDS HILL AVE	1988	No					
5	BLACKMAN TERRACE	1988	Yes	No	No			
11	BLACKMAN TERRACE	1988	No	INO	INU			
17	BLACKMAN TERRACE	1988	Yes	Yes	Yes		GROUND	
14	BLACKSMITH DRIVE	1987	Yes	No	No		GROOND	
17	BLACKSMITH DRIVE	1987	Yes	No	No			
28	BLACKSMITH DRIVE	1987	No	INO	INU			
29	BLACKSMITH DRIVE	1994	No					ROOF LEADER
33	BLACKSMITH DRIVE	1987	Yes	No	No			NOO! ELABER
34	BLACKSMITH DRIVE	1988	Yes	No	No			
39	BLACKSMITH DRIVE	1988	No	INO	INU			
42	BLACKSMITH DRIVE	1988	Yes	No	No			
49	BLACKSMITH DRIVE	1987	Yes	No	No			
49	BLACKSMITH DRIVE	1994	No	INO	INO			ROOF LEADER
50	BLACKSMITH DRIVE	1987	Yes	No	No			NOO! ELADEN
55	BLACKSMITH DRIVE	1987	No	INU	INU			
55	BLACKSMITH DRIVE	1994	No					ROOF LEADER
56	BLACKSMITH DRIVE	1988	Yes	No	No			NOO! LEADEN
64	BLACKSMITH DRIVE	1988	Yes	No	No			
65	BLACKSMITH DRIVE	1987	Yes	No	No			
65	BLACKSMITH DRIVE	1994	No	140	140			ROOF LEADER
23	BLAKE STREET	1985	Yes	No	No			CLEANOUT NOT VISIBLE
23	BLAKE STREET	2008	Yes	No	140			SELFATOR NOT VISIBLE
25	BLAKE STREET	1985	No	140				
25	BLAKE STREET	2008	Yes	No				
29	BLAKE STREET	1985	Yes	Yes	Yes		SINK	
23	DETINE STREET	2008	Yes	Yes	Yes	1	YARD	



46	BLAKE STREET	1985	Yes	No	No			
46	BLAKE STREET	2008	Yes	No	INO			
53	BLAKE STREET	1991	Yes	No	Yes		GROUND	
53	BLAKE STREET	2008	Yes	INO	Yes	1	UNK	SUMP NEVER RUNS
60	BLAKE STREET	1985		No	No	1	UINK	SOMP NEVER RUNS
60		2008	Yes Yes	No	INO			FINISHED BASEMENT
61	BLAKE STREET				Vac			FINISHED BASEIVIEN I
61	BLAKE STREET BLAKE STREET	1986 2008	Yes	No	Yes			
			Yes	No	NI-			
65	BLAKE STREET	1985	Yes	No	No			
65	BLAKE STREET	2008	Yes	No	A1.			
70	BLAKE STREET	1986	Yes	No	No			
70	BLAKE STREET	2008	No					
71	BLAKE STREET	1985	Yes	No	No			
71	BLAKE STREET	2008	Yes					
76	BLAKE STREET	1985	Yes	No	No			
76	BLAKE STREET	2008	Yes	No				
79	BLAKE STREET	1985	Yes	No	No			
79	BLAKE STREET	2008	Yes	No				
82	BLAKE STREET	1986	Yes	No	No			
82	BLAKE STREET	2008	No					
85	BLAKE STREET	1986	Yes	No	No			
85	BLAKE STREET	2008	Yes	Yes	Yes	1	HOSED TO YARD	
90	BLAKE STREET	1989	Yes	No	No			PIPE NOT VISIBLE
90	BLAKE STREET	2008	Yes					
91	BLAKE STREET	1986	Yes	Yes	Yes		GROUND	
91	BLAKE STREET	2008	Yes					
96	BLAKE STREET	1986	Yes	No	No			CLEANOUT UNDER STAIRS
96	BLAKE STREET	2008	Yes	No				WALK-IN-BASEMENT HALF FINISHED
99	BLAKE STREET	2008	Yes	Yes	Yes	1	YARD	
102	BLAKE STREET	1986	Yes	No	No			
102	BLAKE STREET	2008	No					
105	BLAKE STREET	1986	Yes	No	No			
105	BLAKE STREET	2008	No					
110	BLAKE STREET	1986	Yes	No	No			CLEANOUT NOT VISIBLE
110	BLAKE STREET	2008	Yes					
32	BOBSLED DRIVE	1988	Yes	No	No			CLEANOUT NOT VISIBLE
39	BOBSLED DRIVE	1988	No		1			
11/15	BOBSLED DRIVE	1986	Yes	No	No			
12/14	BOBSLED DRIVE	1986	Yes	No	No			
21/22	BOBSLED DRIVE	1988	No	-				
21/23	BOBSLED DRIVE	1986	No					
23/24	BOBSLED DRIVE	1988	No		1			
40/42	BOBSLED DRIVE	1986	Yes	No	No			



7	BOND STREET	1986	Yes	No	No			
8	BOND STREET	1988	Yes	No	No			CLEANOUT NOT VISIBLE
11	BOND STREET	1988	Yes	Yes	Yes			
22	BOND STREET	1986	Yes	No	No			
23	BOND STREET	1988	Yes	No	No			
41	BOND STREET	1988	Yes	Yes	Yes		GROUND	
53	BOND STREET	1988	Yes	No	No		0.000.12	
61	BOND STREET	1989	No					
67	BOND STREET	1988	Yes	No	No			
8	BONWOOD ROAD	1991	No	-				
8	BONWOOD ROAD	2008	Yes	No	Yes	1	YARD	SUMP PUMP NOT NECESSARY
15	BONWOOD ROAD	1985	Yes	Yes	Yes	_	GROUND	
15	BONWOOD ROAD	2008	Yes	Yes	Yes	2	OWNER SAYS TO TOWN DRAIN	1 PUMP PUMPS TO OTHER PUMP HOLE AND OUT
16	BONWOOD ROAD	1985	Yes	Yes	No			
16	BONWOOD ROAD	2008	No					
22	BONWOOD ROAD	1989	Yes	No	No			
22	BONWOOD ROAD	2008	Yes	No				
23	BONWOOD ROAD	1986	Yes	No	No			
23	BONWOOD ROAD	2008	No					
30	BONWOOD ROAD	1986	Yes	Yes	Yes		GROUND	
30	BONWOOD ROAD	2008	Yes					
34	BONWOOD ROAD	1985	Yes	No	No			
34	BONWOOD ROAD	2008	Yes	No				
36	BONWOOD ROAD	1986	Yes	No	No			
36	BONWOOD ROAD	2008	Yes					
40	BONWOOD ROAD	1985	Yes	No	No			
40	BONWOOD ROAD	2008	No					
41	BONWOOD ROAD	1986	Yes	No	No			
41	BONWOOD ROAD	2008	Yes	Yes	Yes	2	YARD	NEW NO HOUSE #
46	BONWOOD ROAD	2008	No					
48	BONWOOD ROAD	1991	Yes	No	No			
51	BONWOOD ROAD	1986	Yes	No	No			
51	BONWOOD ROAD	2008	Yes	No				
59	BONWOOD ROAD	1985	Yes	Yes	Yes		SEWER	SUMP PUMP CONNECTED TO SEWER IN REAR OF GARAGE
59	BONWOOD ROAD	2008	No					
60	BONWOOD ROAD	1986	Yes	No	No			
60	BONWOOD ROAD	2008	Yes	No				
69	BONWOOD ROAD	1991	No					
69	BONWOOD ROAD	2008	Yes	Yes	Yes	2	YARD	
70	BONWOOD ROAD	1986	Yes	No	No			
70	BONWOOD ROAD	2008	Yes	No				



77	BONWOOD ROAD	1985	Yes	Yes	Yes			CLEANOUT AND SUMP PUMP NOT VISIBLE
77	BONWOOD ROAD	2008	No					
78	BONWOOD ROAD	1985	Yes	No	No			
78	BONWOOD ROAD	2008	Yes	Yes	Yes	1	YARD	
37	BOOTH STREET	1986	Yes	No	No			
45	BOOTH STREET	1986	Yes	No	Yes		GROUND	
50	BOOTH STREET	1988	Yes	No	No			
51	BOOTH STREET	1986	Yes	No	No			
58	BOOTH STREET	1988	Yes	No	No			
59	BOOTH STREET	1988	Yes	No	No			
64	BOOTH STREET	1988	Yes	No	No			
69	BOOTH STREET	1986	Yes	No	No			
70	BOOTH STREET	1986	Yes	No	No			
76	BOOTH STREET	1986	No					
77	BOOTH STREET	1988	Yes	No	No			
82	BOOTH STREET	1988	No					
83	BOOTH STREET	1988	Yes	No	No			
88	BOOTH STREET	1986	Yes	Yes	No			
89	BOOTH STREET	1988	No					
95	BOOTH STREET	1986	Yes	No	No			
96	BOOTH STREET	1988	Yes	No	No			
101	BOOTH STREET	1988	No					
109	BOOTH STREET	1986	Yes	No	No			
110	BOOTH STREET	1988	No					
5	BORDER ROAD	1988	Yes	No	No			SLAB HOUSE
11	BORDER ROAD	1988	Yes	No	No			SLAB HOUSE
12	BORDER ROAD	1988	Yes	No	No			SLAB HOUSE
18	BORDER ROAD	1988	Yes	No	No			SLAB HOUSE
21	BORDER ROAD	1988	Yes	No	No			SLAB HOUSE
26	BORDER ROAD	1988	No					
27	BORDER ROAD	1988	Yes	No	Yes		PLUMBING	
33	BORDER ROAD	1988	Yes	No	No			
34	BORDER ROAD	1988	No					
39	BORDER ROAD	1988	No					
46	BORDER ROAD	1987	Yes	No	No			
53	BORDER ROAD	1987	Yes	No	Yes		OTHER	OUTSIDE TO BROOK
54	BORDER ROAD	1987	Yes	No	Yes		PLUMBING	
60	BORDER ROAD	1987	Yes	No	No			
61	BORDER ROAD	1987	Yes	No	No			
61	BORDER ROAD	1994	No					ROOF LEADER
64	BORDER ROAD	1987	Yes	Yes	Yes		PLUMBING	2 PUMPS: ONE TO PLUMBING AND ONE OUTSIDE TO GROUND



69	BORDER ROAD	1987	Yes	No	No		CLEANOUT NOT VISIBLE
72	BORDER ROAD	1987	No				
77	BORDER ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
77	BORDER ROAD	1994	No				ROOF LEADER
82	BORDER ROAD	1987	Yes	No	Yes	GROUND	
83	BORDER ROAD	1987	Yes	No	No		
88	BORDER ROAD	1987	Yes	Yes	Yes	GROUND	
99	BORDER ROAD	1987	Yes	No	No		
99	BORDER ROAD	1994	No				DRIVEWAY DRAIN
100	BORDER ROAD	1987	No				
1	BOWER STREET	1986	Yes	No	No		CLEANOUT UNDER STAIRS
14	BRACKETT STREET	1986	Yes	No	No		
22	BRACKETT STREET	1986	Yes	No	No		
31	BRACKETT STREET	1989	No				
34	BRACKETT STREET	1986	Yes	No	No		CLEANOUT NOT VISIBLE
42	BRACKETT STREET	1986	Yes	No	No		
43	BRACKETT STREET	1986	Yes	No	No		
12	BRADFORD STREET	1986	Yes	No	No		
13	BRADFORD STREET	1986	Yes	No	No		
14	BRADFORD STREET	1988	Yes	No	No		
18	BRADFORD STREET	1986	Yes	No	No		
19	BRADFORD STREET	1987	Yes	No	No		
24	BRADFORD STREET	1988	Yes	No	No		
25	BRADFORD STREET	1988	Yes	No	No		
28	BRADFORD STREET	1988	No				
33	BRADFORD STREET	1986	Yes	No	No		
34	BRADFORD STREET	1988	Yes	No	No		
38	BRADFORD STREET	1986	Yes	No	No		
39	BRADFORD STREET	1986	Yes	No	No		
43	BRADFORD STREET	1986	Yes	No	No		
46	BRADFORD STREET	1988	Yes	No	No		
50	BRADFORD STREET	1988	Yes	Yes	No		
54	BRADFORD STREET	1988	No				
55	BRADFORD STREET	1986	Yes	No	No		
58	BRADFORD STREET	1986	Yes	No	No		
61	BRADFORD STREET	1988	Yes	No	No		
62	BRADFORD STREET	1988	Yes	No	No		
67	BRADFORD STREET	1986	Yes	No	No		
68	BRADFORD STREET	1988	No				
73	BRADFORD STREET	1988	Yes	No	No		
96	BRADFORD STREET	1986	Yes	No	No		
97	BRADFORD STREET	1986	Yes	No	No		
100	BRADFORD STREET	1988	No				
108	BRADFORD STREET	1986	Yes	No	Yes	GROUND	



109	BRADFORD STREET	1988	Yes	No	No		
112	BRADFORD STREET	1988	Yes	No	No		
119	BRADFORD STREET	1986	Yes	No	No		
128	BRADFORD STREET	1988	No	110	110		
133	BRADFORD STREET	1988	No				
3	BRENTWOOD CIRCLE	1987	Yes	No	No		
11	BRENTWOOD CIRCLE	1987	Yes	No	No		CLEANOUT NOT VISIBLE
14	BRENTWOOD CIRCLE	1988	Yes	No	No		CLEANOOT NOT VISIBLE
19	BRENTWOOD CIRCLE	1987	Yes	No	No		
20	BRENTWOOD CIRCLE	1987	No	110	110		
26	BRENTWOOD CIRCLE	1987	Yes	Yes	Yes	PLUMBING	
32	BRENTWOOD CIRCLE	1987	Yes	No	No	T EOWIDING	
36	BRENTWOOD CIRCLE	1987	No	110	110		
40	BRENTWOOD CIRCLE	1987	Yes	No	No		
41	BRENTWOOD CIRCLE	1987	Yes	No	No		
45	BRENTWOOD CIRCLE	1987	Yes	No	No		
46	BRENTWOOD CIRCLE	1987	Yes	No	No		
46	BRENTWOOD CIRCLE	1994	No	110	110		ROOF LEADER
51	BRENTWOOD CIRCLE	1987	Yes	No	No		CLEANOUT NOT VISIBLE
51	BRENTWOOD CIRCLE	1994	No	110	140		DRIVEWAY DRAIN
52	BRENTWOOD CIRCLE	1987	No				2101210711 2101111
57	BRENTWOOD CIRCLE	1987	Yes	No	No		CAP NOT VISIBLE
62	BRENTWOOD CIRCLE	1987	Yes	No	No		
68	BRENTWOOD CIRCLE	1987	Yes	No	No		CAP IN GARAGE
1	BREWSTER ROAD	1986	Yes	No	No		
7	BREWSTER ROAD	1986	Yes	No	No		
8	BREWSTER ROAD	1989	No				
14	BREWSTER ROAD	1986	Yes	No	Yes	PLUMBING	
17	BREWSTER ROAD	1986	Yes	Yes	Yes	GROUND	
21	BREWSTER ROAD	1986	Yes	No	No		
22	BREWSTER ROAD	1986	Yes	No	No		
29	BREWSTER ROAD	1986	Yes	No	No		
30	BREWSTER ROAD	1986	Yes	No	No		
37	BREWSTER ROAD	1989	Yes	No	No		
40	BREWSTER ROAD	1986	Yes	No	No		
43	BREWSTER ROAD	1989	Yes	No	No		
61	BREWSTER ROAD	1986	Yes	No	No		
62	BREWSTER ROAD	1989	No				
68	BREWSTER ROAD	1986	Yes	No	No		
69	BREWSTER ROAD	1989	No				
76	BREWSTER ROAD	1986	Yes	No	No		
77	BREWSTER ROAD	1989	No				
85	BREWSTER ROAD	1986	Yes	No	No		
91	BREWSTER ROAD	1989	No				



6	BRIARWOOD CIRCLE	1986	Yes	Yes	No		
7	BRIARWOOD CIRCLE	1986	Yes	No	No		
11	BRIARWOOD CIRCLE	1986	Yes	No	No		
19	BRIARWOOD CIRCLE	1986	Yes	No	No		
20	BRIARWOOD CIRCLE	1988	Yes	No	No		
23	BRIARWOOD CIRCLE	1988	Yes	No	No		
32	BRIARWOOD CIRCLE	1986	Yes	No	No		
38	BRIARWOOD CIRCLE	1986	Yes	No	No		
58	BRIARWOOD CIRCLE	1986	Yes	No	No		
66	BRIARWOOD CIRCLE	1986	Yes	No	No		
70	BRIARWOOD CIRCLE	1986	Yes	No	No		
50	BRIDGE STREET	1986	Yes	No	No		
4	BROADMEADOW ROAD	1988	No	-			
12	BROADMEADOW ROAD	1988	Yes	No	No		
27	BROADMEADOW ROAD	1987	Yes	No	No		
33	BROADMEADOW ROAD	1987	Yes	No	No		
39	BROADMEADOW ROAD	1988	No				
42	BROADMEADOW ROAD	1987	Yes	No	No		
45	BROADMEADOW ROAD	1987	Yes	No	No		
50	BROADMEADOW ROAD	1988	No				
51	BROADMEADOW ROAD	1987	Yes	No	No		
56	BROADMEADOW ROAD	1988	Yes	No	No		
57	BROADMEADOW ROAD	1987	Yes	No	No		
62	BROADMEADOW ROAD	1988	Yes	No	No		
63	BROADMEADOW ROAD	1987	Yes	No	No		
70	BROADMEADOW ROAD	1986	Yes	No	No		
75	BROADMEADOW ROAD	1986	Yes	No	No		
78	BROADMEADOW ROAD	1986	Yes	No	No		
83	BROADMEADOW ROAD	1986	No				
87	BROADMEADOW ROAD	1986	No				
103	BROADMEADOW ROAD	1986	No				
105	BROADMEADOW ROAD	1988	Yes	No	No		
115	BROADMEADOW ROAD	1986	Yes	No	No		
119	BROADMEADOW ROAD	1986	Yes	No	No		
125	BROADMEADOW ROAD	1986	Yes	No	No		
131	BROADMEADOW ROAD	1986	Yes	No	No		
134	BROADMEADOW ROAD	1986	Yes	No	No		
142	BROADMEADOW ROAD	1986	No				
152	BROADMEADOW ROAD	1986	Yes	No	No		
153	BROADMEADOW ROAD	1986	Yes	No	No		
156	BROADMEADOW ROAD	1986	No			_	
163	BROADMEADOW ROAD	1986	Yes	No	No		
164	BROADMEADOW ROAD	1988	Yes	No	No		
168	BROADMEADOW ROAD	1986	Yes	No	No		



169	BROADMEADOW ROAD	1986	Yes	No	No		
173	BROADMEADOW ROAD	1986	Yes	No	No		
176	BROADMEADOW ROAD	1986	Yes	No	No		
180	BROADMEADOW ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
183	BROADMEADOW ROAD	1986	Yes	No	No		CLEANOUT NOT VISIBLE
206	BROADMEADOW ROAD	1986	Yes	No	No		CELTRICOT IVOT VISIBEE
211	BROADMEADOW ROAD	1986	Yes	No	No		
212	BROADMEADOW ROAD	1986	No	110	110		
217	BROADMEADOW ROAD	1986	No				
218	BROADMEADOW ROAD	1986	Yes	No	No		
221	BROADMEADOW ROAD	1986	Yes	No	No		
226	BROADMEADOW ROAD	1986	Yes	No	No		
10	BROOKLINE STREET	1988	No	110	110		
29	BROOKLINE STREET	1988	Yes	No	No		
38	BROOKLINE STREET	1987	Yes	No	No		
44	BROOKLINE STREET	1987	Yes	No	No		
56	BROOKLINE STREET	1987	Yes	No	No		
62	BROOKLINE STREET	1987	Yes	No	No		
63	BROOKLINE STREET	1988	Yes	No	No		
68	BROOKLINE STREET	1987	Yes	No	No		
76	BROOKLINE STREET	1988	Yes	No	No		
84	BROOKLINE STREET	1987	Yes	No	No		
90	BROOKLINE STREET	1987	Yes	No	No		
93	BROOKLINE STREET	1987	No				
96	BROOKLINE STREET	1988	Yes	No	No		
99	BROOKLINE STREET	1987	Yes	No	No		
107	BROOKLINE STREET	1987	Yes	No	No		
110	BROOKLINE STREET	1987	No				
112	BROOKLINE STREET	1988	Yes	No	No		
115	BROOKLINE STREET	1988	Yes	Yes	Yes	GROUND	
125	BROOKLINE STREET	1986	Yes	Yes	Yes	PLUMBING	
130	BROOKLINE STREET	1986	Yes	No	No		
136	BROOKLINE STREET	1986	Yes	No	No		
139	BROOKLINE STREET	1986	Yes	Yes	Yes	GROUND	
142	BROOKLINE STREET	1986	Yes	No	No		
145	BROOKLINE STREET	1989	No				
151	BROOKLINE STREET	1989	No				
176	BROOKLINE STREET	1988	Yes	No	No	_	
184	BROOKLINE STREET	1988	Yes	No	No		
190	BROOKLINE STREET	1988	No				
196	BROOKLINE STREET	1986	Yes	No	No		
204	BROOKLINE STREET	1989	Yes	No	Yes	SINK	
215	BROOKLINE STREET	1986	Yes	No	No		CLEANOUT IN GARAGE
216	BROOKLINE STREET	1986	Yes	No	No		



219	BROOKLINE STREET	1986	Yes	No	No		
222	BROOKLINE STREET	1986	Yes	No	No		
	DROOKEINE STREET	1500	163	140	110		CLEANOUT BELOW GARAGE
227	BROOKLINE STREET	1988	Yes	No	No		FLOOR
234	BROOKLINE STREET	1988	Yes	No	No		
235	BROOKLINE STREET	1986	Yes	No	No		
245	BROOKLINE STREET	1988	Yes	Yes	Yes	DRAIN	
251	BROOKLINE STREET	1989	No				
256	BROOKLINE STREET	1988	Yes	No	No		
262	BROOKLINE STREET	1986	Yes	No	No		
268	BROOKLINE STREET	1989	Yes	No	No		
277	BROOKLINE STREET	1986	Yes	No	No		
283	BROOKLINE STREET	1988	Yes	No	No		
288	BROOKLINE STREET	1988	Yes	No	No		
293	BROOKLINE STREET	1988	Yes	No	No		
298	BROOKLINE STREET	1989	Yes	No	No		
299	BROOKLINE STREET	1989	Yes	Yes	Yes	GROUND	
303	BROOKLINE STREET	1989	No				
304	BROOKLINE STREET	1989	No				
307	BROOKLINE STREET	1986	Yes	No	Yes	GROUND	
313	BROOKLINE STREET	1988	Yes	No	No		
321	BROOKLINE STREET	1988	Yes	No	No		
325	BROOKLINE STREET	1986	Yes	No	No		
331	BROOKLINE STREET	1986	Yes	No	No		
334	BROOKLINE STREET	1988	Yes	No	No		NO CLEANOUT CAP
335	BROOKLINE STREET	1986	Yes	No	No		
345	BROOKLINE STREET	1988	Yes	No	No		
346	BROOKLINE STREET	1986	Yes	No	No		
349	BROOKLINE STREET	1989	Yes	No	No		
354	BROOKLINE STREET	1986	Yes	No	No		
338/340	BROOKLINE STREET	1986	Yes	No	No		
184	BROOKSIDE ROAD	1988	Yes	No	No		BLOCKED AT FLOOR
192	BROOKSIDE ROAD	1988	Yes	No	No		
204	BROOKSIDE ROAD	1988	Yes	No	No		
209	BROOKSIDE ROAD	1988	Yes	No	No		
217	BROOKSIDE ROAD	1988	Yes	No	No		
225	BROOKSIDE ROAD	1988	Yes	No	No		
226	BROOKSIDE ROAD	1988	Yes	No	No		
233	BROOKSIDE ROAD	1988	Yes	No	No		
13	BURNSIDE ROAD	1986	Yes	No	No		
14	BURNSIDE ROAD	1985	Yes	No	No		
19	BURNSIDE ROAD	1986	No				
20	BURNSIDE ROAD	1986	Yes	No	No		
25	BURNSIDE ROAD	1986	Yes	No	No		



26	BURNSIDE ROAD	1986	Yes	No	No		
55	BURNSIDE ROAD	1986	Yes	No	No		
58	BURNSIDE ROAD	1985	Yes	No	No		
3	CANAVAN CIRCLE	1986	Yes	No	No		
6	CANAVAN CIRCLE	1986	Yes	No	No		
12	CANAVAN CIRCLE	1986	Yes	No	No		
15	CANAVAN CIRCLE	1986	Yes	No	No		
20	CANAVAN CIRCLE	1989	No				
26	CANAVAN CIRCLE	1986	Yes	No	No		
29	CANAVAN CIRCLE	1989	Yes	No	No		
33	CANAVAN CIRCLE	1986	Yes	No	No		
34	CANAVAN CIRCLE	1986	Yes	No	No		
40	CANAVAN CIRCLE	1986	Yes	No	No		
48	CANAVAN CIRCLE	1986	Yes	No	No		
56	CANAVAN CIRCLE	1986	Yes	No	No		
32	CANTEBURY LANE	1987	Yes	No	No		
33	CANTEBURY LANE	1987	Yes	Yes	No		
40	CANTEBURY LANE	1987	No				
55	CANTEBURY LANE	1987	No				
58	CANTEBURY LANE	1988	No				
65	CANTEBURY LANE	1988	Yes	No	No		
73	CANTEBURY LANE	1987	Yes	No	No		
74	CANTEBURY LANE	1987	Yes	No	No		
82	CANTEBURY LANE	1988	No				
85	CANTEBURY LANE	1988	Yes	No	No		
90	CANTEBURY LANE	1988	No				
93	CANTEBURY LANE	1987	Yes	No	No		
96	CANTEBURY LANE	1987	No		No		
99	CANTEBURY LANE	1988	Yes	No	No		
3	CAREY LANE	1985	Yes	No	No		
13	CAREY LANE	1985	Yes	Yes	Yes	GROUND	
17	CAREY LANE	1985	Yes	Yes	Yes	SEWER	
18	CAREY LANE	1985	Yes	Yes	Yes	GROUND	
23	CAREY LANE	1985	Yes	Yes	Yes	GROUND	
24	CAREY LANE	1986	Yes	Yes	Yes	GROUND	
29	CAREY LANE	1985	No				
30	CAREY LANE	1985	Yes	Yes	No		
35	CAREY LANE	1986	Yes	No	Yes	GROUND	
36	CAREY LANE	1985	No				
41	CAREY LANE	1985	Yes	Yes	No		
42	CAREY LANE	1985	Yes	Yes	Yes	GROUND	
48	CAREY LANE	1985	Yes	No	Yes	GROUND	
49	CAREY LANE	1985	Yes	No	No		
53	CAREY LANE	1985	No				



54	CAREY LANE	1985	Yes	Yes	No		
61	CAREY LANE	1985	No				
64	CAREY LANE	1985	Yes	No	No		
95	CAREY LANE	1985	No				
98	CAREY LANE	1985	No				NOT CONNECTED TO SEWER
6	CAROL ROAD	1986	Yes	No	No		
16	CAROL ROAD	1986	Yes	No	No		
19	CAROL ROAD	1986	Yes	No	No		
26	CAROL ROAD	1989	Yes	No	No		
27	CAROL ROAD	1986	Yes	No	No		
32	CAROL ROAD	1986	Yes	No	No		
35	CAROL ROAD	1986	Yes	Yes	Yes	PLUMBING	
40	CAROL ROAD	1986	Yes	No	No	TEOWIDING	
47	CAROL ROAD	1989	No	140	INO		
54	CAROL ROAD	1989	No				
57	CAROL ROAD	1986	Yes	No	No		
66	CAROL ROAD	1989	Yes	No	No		
76	CAROL ROAD	1986	Yes	No	No		
1	CARRIAGE LANE	1985	Yes	No	No		
2	CARRIAGE LANE	1985	Yes	No	No		
8	CARRIAGE LANE CARTER STREET	1988	Yes	No	No		
14	CARTER STREET	1988	Yes	No	No		
25	CARTER STREET	1988			1		
10		1986	Yes	No	No No		
	CASTANO COURT CASTANO COURT		Yes	Yes	1		
21		1988	Yes	No	No		
24 25	CASTANO COURT	1980	No				
	CASTANO COURT	1988	No	NI-	NI-		
1	CASTLE PLACE	1987	Yes	No	No		
11	CASTLE PLACE	1987	Yes	No	No		
8	CEFALO ROAD	1988	No	NI.			
16	CEFALO ROAD	1988	Yes	No	No		
17	CEFALO ROAD	1988	Yes	No	No		
1	CENTRAL AVE	1986	Yes	No	No		
2	CENTRAL AVE	1988	No	N1 -	N1 -		
3	CENTRAL AVE	1986	Yes	No	No		
4	CENTRAL AVE	1988	No				
16	CENTRAL AVE	1988	No				
19	CENTRAL AVE	1988	No				
22	CENTRAL AVE	1988	No	ļ	 		
25	CENTRAL AVE	1986	Yes	No	No		
31	CENTRAL AVE	1986	Yes	No	No		
33	CENTRAL AVE	1986	Yes	No	No		
36	CENTRAL AVE	1986	No				
36	CENTRAL AVE	1988	Yes	No	No		



37	CENTRAL AVE	1986	Yes	No	No		
39	CENTRAL AVE	1986	Yes	No	No		
40	CENTRAL AVE	1986	Yes	No	No		
41	CENTRAL AVE	1988	Yes	No	No		
43	CENTRAL AVE	1988	No	INO	INU		
50	CENTRAL AVE	1986	Yes	No	No		
53	CENTRAL AVE	1988	Yes	No	No		
61	CENTRAL AVE	1986		No	No		
89			Yes	INO	INO		
96	CENTRAL AVE CENTRAL AVE	1988 1988	No				
			No				
99	CENTRAL AVE	1986	No	NI.	NI.		
104	CENTRAL AVE	1986	Yes	No	No		
107	CENTRAL AVE	1986	Yes	No	No		
110	CENTRAL AVE	1986	Yes	No	No		
130	CENTRAL AVE	1988	Yes	No	No		
134	CENTRAL AVE	1988	Yes	No	No		
137	CENTRAL AVE	1988	No				
138	CENTRAL AVE	1988	Yes	No	No		
143	CENTRAL AVE	1988	Yes	No	No		
144	CENTRAL AVE	1986	Yes	No	No		
153	CENTRAL AVE	1988	Yes	No	Yes	GROUND	
161	CENTRAL AVE	1986	Yes	No	No		
164	CENTRAL AVE	1986	Yes	No	No		
165	CENTRAL AVE	1988	Yes	No	No		
170	CENTRAL AVE	1986	Yes	No	No		
171	CENTRAL AVE	1988	Yes	No	No		
177	CENTRAL AVE	1986	Yes	No	No		
180	CENTRAL AVE	1986	Yes	No	No		
183	CENTRAL AVE	1988	No				
191	CENTRAL AVE	1988	Yes	No	No		
192	CENTRAL AVE	1986	Yes	No	No		
198	CENTRAL AVE	1988	No				
204	CENTRAL AVE	1988	Yes	No	No		
212	CENTRAL AVE	1988	No				
227	CENTRAL AVE	1986	Yes	No	No		
228	CENTRAL AVE	1986	Yes	No	No		
234	CENTRAL AVE	1986	Yes	No	No		
235	CENTRAL AVE	1986	Yes	No	No		
242	CENTRAL AVE	1986	Yes	No	No		
250	CENTRAL AVE	1986	Yes	No	No		
259	CENTRAL AVE	1988	No				HOUSE NOT CONNECTED TO SEWER
442	CENTRAL AVE	1988	No				
443	CENTRAL AVE	1986	Yes	Yes	Yes	GROUND	



450	CENTRAL AVE	1988	No				
457	CENTRAL AVE	1988	Yes	No	No		
460	CENTRAL AVE	1988	Yes	No	No		
467	CENTRAL AVE	1988	Yes	No	No		
468	CENTRAL AVE	1988	Yes	No	No		
474	CENTRAL AVE	1986	Yes	No	No		
475	CENTRAL AVE	1988	Yes	No	No		
489	CENTRAL AVE	1986	Yes	No	No		
502	CENTRAL AVE	1988	No	110	110		
506	CENTRAL AVE	1988	No				
511	CENTRAL AVE	1988	No				
512	CENTRAL AVE	1988	No				
516	CENTRAL AVE	1988	Yes	No	No		
527	CENTRAL AVE	1986	Yes	No	No		
541	CENTRAL AVE	1988	Yes	No	No		
546	CENTRAL AVE	1986	Yes	No	No		
547	CENTRAL AVE	1986	Yes	No	No		
553	CENTRAL AVE	1988	No				
554	CENTRAL AVE	1986	Yes	No	No		
559	CENTRAL AVE	1986	Yes	No	No		
564	CENTRAL AVE	1988	No	-			
567	CENTRAL AVE	1986	Yes	No	Yes	GROUND	
568	CENTRAL AVE	1986	Yes	No	No		
572	CENTRAL AVE	1988	Yes	No	No		
573	CENTRAL AVE	1988	Yes	No	No		
597	CENTRAL AVE	1988	Yes	No	No		
603	CENTRAL AVE	1986	Yes	No	No		
604	CENTRAL AVE	1988	Yes	No	No		
609	CENTRAL AVE	1988	No				
612	CENTRAL AVE	1986	Yes	No	No		
617	CENTRAL AVE	1986	Yes	No	No		
623	CENTRAL AVE	1986	Yes	No	No		
639	CENTRAL AVE	1988	Yes	No	No		
644	CENTRAL AVE	1986	Yes	No	No		
651	CENTRAL AVE	1988	Yes	No	No		
652	CENTRAL AVE	1988	Yes	No	No		
659	CENTRAL AVE	1986	Yes	No	No		
664	CENTRAL AVE	1988	Yes	No	No		
665	CENTRAL AVE	1986	Yes	No	No		
673	CENTRAL AVE	1986	Yes	No	No		
674	CENTRAL AVE	1988	No				
682	CENTRAL AVE	1986	Yes	No	No		
683	CENTRAL AVE	1986	Yes	No	No		
693	CENTRAL AVE	1986	Yes	No	No		



696	CENTRAL AVE	1986	Yes	No	No		
741	CENTRAL AVE	1988	No	INU	NO		
749	CENTRAL AVE	1988	No				
751	CENTRAL AVE	1986	Yes	No	No		
751	CENTRAL AVE	1988	No	INO	NO		
764	CENTRAL AVE	1986	Yes	No	Yes	GROUND	
767				No	ł	GROUND	
767	CENTRAL AVE CENTRAL AVE	1988 1988	Yes	No	No		
-	CENTRAL AVE		Yes	No	No		
781		1986	Yes	No	No		
799	CENTRAL AVE	1988	Yes	No	No		
802	CENTRAL AVE	1986	Yes	No	No		
808	CENTRAL AVE	1986	No	NI.	NI.		
809	CENTRAL AVE	1988	Yes	No	No	CDOLIND	
814	CENTRAL AVE	1986	Yes	No	Yes	GROUND	
816	CENTRAL AVE	1988	No	N	NI :		
822	CENTRAL AVE	1986	Yes	No	No		
828	CENTRAL AVE	1988	Yes	No	No		
829	CENTRAL AVE	1988	Yes	No	No		
834	CENTRAL AVE	1986	Yes	No	No		
842	CENTRAL AVE	1986	Yes	No	Yes	GROUND	
848	CENTRAL AVE	1986	Yes	No	No		
860	CENTRAL AVE	1986	Yes	No	No		
870	CENTRAL AVE	1986	Yes	No	No		
876	CENTRAL AVE	1986	No				
881	CENTRAL AVE	1986	Yes	No	No		
891	CENTRAL AVE	1988	Yes	No	No		
914	CENTRAL AVE	1986	Yes	No	No		
922	CENTRAL AVE	1988	Yes	No	No		
930	CENTRAL AVE	1988	Yes	No	No		
944	CENTRAL AVE	1988	No				
945	CENTRAL AVE	1989	No				
963	CENTRAL AVE	1989	No				
970	CENTRAL AVE	1988	Yes	No	No		
980	CENTRAL AVE	1988	No				
984	CENTRAL AVE	1988	Yes	No	No		
1001	CENTRAL AVE	1988	Yes	No	No		
1009	CENTRAL AVE	1989	No				
1015	CENTRAL AVE	1988	Yes	No	No		
1018	CENTRAL AVE	1988	Yes	No	No		
1019	CENTRAL AVE	1988	No				
1025	CENTRAL AVE	1989	Yes	No	No		
1028	CENTRAL AVE	1988	Yes	No	No		
1038	CENTRAL AVE	1988	Yes	No	No		
1069	CENTRAL AVE	1988	Yes	No	No		



1086	CENTRAL AVE	1989	No					
1092	CENTRAL AVE	1986	Yes	No	No			
1109	CENTRAL AVE	1989	No	110	110			
1115	CENTRAL AVE	1986	Yes	No	No			
1124	CENTRAL AVE	1986	Yes	No	Yes		GROUND	
1129	CENTRAL AVE	1986	Yes	No	No		GROOND	
1136	CENTRAL AVE	1989	No	140	110			
1130	CENTRALAVE	1303	INO					
1144	CENTRAL AVE	1986	No					NO BASEMENT, PIPE NOT VISIBLE
1152	CENTRAL AVE	1986	Yes	No	No			
1164	CENTRAL AVE	1986	Yes	Yes	Yes		GROUND	
1172	CENTRAL AVE	1986	Yes	No	No			
1177	CENTRAL AVE	1986	Yes	Yes	Yes		PLUMBING	
1195	CENTRAL AVE	1986	Yes	Yes	Yes		SEWER	
1196	CENTRAL AVE	1986	Yes	Yes	Yes		GROUND	
1210	CENTRAL AVE	1986	Yes	No	Yes			PUMP NOT CONNECTED
1246	CENTRAL AVE	1989	Yes	Yes	Yes		GROUND	
1275	CENTRAL AVE	1989	No					
1805	CENTRAL AVE	1987	Yes	No	No			
1810	CENTRAL AVE	1987	Yes	No	No			
1819	CENTRAL AVE	1987	Yes	No	No			
1820	CENTRAL AVE	1987	Yes	No	No			
1831	CENTRAL AVE	1987	Yes	No	No			
1843	CENTRAL AVE	1987	Yes	No	No			
1885	CENTRAL AVE	1988	Yes	No	No			
1910	CENTRAL AVE	1988	Yes	No	Yes		GROUND	
-	CENTRAL AVE	1986	Yes	No	No			
28/30	CENTRAL AVE	1986	No					
586/588	CENTRAL AVE	1986	Yes	No	No			
120	CHARLES RIVER STREET	1987	No					
121	CHARLES RIVER STREET	1987	Yes	No	No			
122	CHARLES RIVER STREET	1987	No					
125	CHARLES RIVER STREET	1987	Yes	Yes	No			
141	CHESTNUT STREET	1989	No					
165	CHESTNUT STREET	1989	No					
450	CHESTNUT STREET	1985	Yes	No	No			
456	CHESTNUT STREET	1986	Yes	No	No			
462	CHESTNUT STREET	1986	Yes	No	No	†		
470	CHESTNUT STREET	1985	Yes	No	No			
471	CHESTNUT STREET	1985	Yes	Yes	Yes	†	GROUND	
471	CHESTNUT STREET	1985	Yes	No	Yes	†	GROUND	
481	CHESTNUT STREET	1986	Yes	No	No			
484	CHESTNUT STREET	1986	Yes	No	No	†		
485	CHESTNUT STREET	1991	No					



491	CHESTNUT STREET	1989	Yes	No			
492	CHESTNUT STREET	1985	Yes	No	No		
497	CHESTNUT STREET	1985	Yes	No	No		
498	CHESTNUT STREET	1985	Yes	No	Yes	GROUND	
504	CHESTNUT STREET	1986	Yes	No	Yes	PLUMBING	
507	CHESTNUT STREET	1991	No				
512	CHESTNUT STREET	1989	Yes	No	No		
513	CHESTNUT STREET	1985	Yes	No	Yes	GROUND	
520	CHESTNUT STREET	1986	Yes	No	No		
521	CHESTNUT STREET	1991	No				
527	CHESTNUT STREET	1986	Yes	No	No		
530	CHESTNUT STREET	1985	Yes	No	No		
533	CHESTNUT STREET	1989	Yes	No	No		
537	CHESTNUT STREET	1986	Yes	Yes	Yes	GROUND	
540	CHESTNUT STREET	1986	Yes	No	No		
543	CHESTNUT STREET	1986	Yes	No	No		
548	CHESTNUT STREET	1985	Yes	No	No		
549	CHESTNUT STREET	1985	Yes	No	No		
557	CHESTNUT STREET	1986	Yes	No	No		
558	CHESTNUT STREET	1985	Yes	No	No		
563	CHESTNUT STREET	1986	Yes	No	No		
564	CHESTNUT STREET	1985	Yes	Yes	No		
569	CHESTNUT STREET	1985	Yes	No	No		
12	CHURCHILL LANE	1986	Yes	No	No		
19	CHURCHILL LANE	1989	No				
20	CHURCHILL LANE	1989	No				
28	CHURCHILL LANE	1988	Yes	No	No		
3	CIMINO ROAD	1989	Yes	No	No		
11	CIMINO ROAD	1987	Yes	No	No		
16	CIMINO ROAD	1987	Yes	No	No		
19	CIMINO ROAD	1987	Yes	No	No		
24	CIMINO ROAD	1989	Yes	No	No		
29	CIMINO ROAD	1989	Yes	No	No		
30	CIMINO ROAD	1987	Yes	No	No		
54	CLARKE ROAD	1986	Yes	No	No		
59	CLARKE ROAD	1986	Yes	No	No		
66	CLARKE ROAD	1986	Yes	No	No		
75	CLARKE ROAD	1988	Yes	No	No		
76	CLARKE ROAD	1988	Yes	No	No		
85	CLARKE ROAD	1988	Yes	No	No		
86	CLARKE ROAD	1988	Yes	No	No		
95	CLARKE ROAD	1988	Yes	No	No		
101	CLARKE ROAD	1986	Yes	No	No		
102	CLARKE ROAD	1988	No				



108	CLARKE ROAD	1988	Yes	No	No		
115	CLARKE ROAD	1988	No	-			
120	CLARKE ROAD	1986	Yes	No	No		
126	CLARKE ROAD	1988	No				
129	CLARKE ROAD	1986	Yes	No	No		
134	CLARKE ROAD	1988	Yes	No	No		
15	CLEVELAND ROAD	1988	No				
20	CLEVELAND ROAD	1988	Yes	No	No		
21	CLEVELAND ROAD	1988	Yes	No	No		
24	CLEVELAND ROAD	1988	Yes	No	No		
31	CLEVELAND ROAD	1988	No				
32	CLEVELAND ROAD	1988	Yes	No	No		
21	COLBY STREET	1988	Yes	No	No		
27	COLBY STREET	1989	Yes	No	Yes	OTHER	
35	COLBY STREET	1986	Yes	No	No		
41	COLBY STREET	1986	Yes	No	No		
49	COLBY STREET	1988	Yes	No	No		
55	COLBY STREET	1988	No				
60	COLBY STREET	1988	Yes	No	No		
23	COLGATE ROAD	1989	Yes	No	No		
35	COLGATE ROAD	1989	Yes	No	No		
38	COLGATE ROAD	1989	Yes	No	No		
44	COLGATE ROAD	1989	No				
45	COLGATE ROAD	1987	Yes	No	No		
66	COLGATE ROAD	1987	Yes	No	No		
18	COLONIAL ROAD	1986	Yes	No	Yes	GROUND	
21	COLONIAL ROAD	1989	No				
25	COLONIAL ROAD	1986	No				
38	COLONIAL ROAD	1986	Yes	No	No		
41	COLONIAL ROAD	1986	Yes	No	No		
44	COLONIAL ROAD	1989	No				
49	COLONIAL ROAD	1989	Yes	No	No		
57	COLONIAL ROAD	1986	Yes	No	No		
9	CONCORD STREET	1985	Yes	No	No		
12	CONCORD STREET	1989	Yes	No	Yes	GROUND	
15	CONCORD STREET	1986	Yes	No	No		
18	CONCORD STREET	1986	Yes	No	No		
21	CONCORD STREET	1986	Yes	No	No		
24	CONCORD STREET	1985	Yes	No	No		BACK WATER VALVE
27	CONCORD STREET	1986	Yes	No	No		
30	CONCORD STREET	1985	Yes	No	Yes	SINK	
34	CONCORD STREET	1986	Yes	No	No		
55	CONCORD STREET	1985	Yes	No	Yes	GROUND	
59	CONCORD STREET	1985	Yes	No	Yes	GROUND	



67	CONCORD STREET	1989	Yes	No	No		CLEANOUT IN GARAGE
73	CONCORD STREET	1989	Yes	No	No		
95	CONCORD STREET	1989	Yes	No	No		CLEANOUT NOT VISIBLE
105	CONCORD STREET	1989	Yes	No	No		
111	CONCORD STREET	1989	Yes	No	No		
118	CONCORD STREET	1987	Yes	No	No		CAP HIDDEN
6	COOLIDGE AVE	1986	Yes	No	No		
11	COOLIDGE AVE	1988	No				
14	COOLIDGE AVE	1988	Yes	No	No		
17	COOLIDGE AVE	1988	Yes	No	No		
20	COOLIDGE AVE	1988	No				
26	COOLIDGE AVE	1988	Yes	No	No		
27	COOLIDGE AVE	1988	No				
33	COOLIDGE AVE	1988	Yes	No	No		
34	COOLIDGE AVE	1988	No				
37	COOLIDGE AVE	1986	Yes	No	No		
40	COOLIDGE AVE	1988	Yes	No	No		
43	COOLIDGE AVE	1988	Yes	No	No		
48	COOLIDGE AVE	1988	No				
54	COOLIDGE AVE		Yes	No	No		
55	COOLIDGE AVE	1986	Yes	No	No		
59	COOLIDGE AVE	1988	Yes	No	No		
60	COOLIDGE AVE	1988	Yes	No	No		
65	COOLIDGE AVE	1988	No				
66	COOLIDGE AVE	1988	No				
69	COOLIDGE AVE	1988	Yes	No	No		
74	COOLIDGE AVE	1988	Yes	No	No		
75	COOLIDGE AVE	1988	Yes	No	No		
78	COOLIDGE AVE	1986	No				
81	COOLIDGE AVE	1986	No				
87	COOLIDGE AVE	1986	Yes	No	No		
9	COTTAGE AVE	1985	Yes	No	No		
10	COTTAGE AVE	1985	Yes	No	Yes	GROUND	
14/16	COTTAGE AVE	1985	Yes	No	No		
5	COULTON PARK	1988	Yes	No	No		
11	COULTON PARK	1988	Yes	No	No		
12	COULTON PARK	1988	Yes	No	No		
17	COULTON PARK	1986	Yes	No	No		
21	COULTON PARK	1988	Yes	No	No		
24	COULTON PARK	1988	Yes	No	No		
29	COULTON PARK	1988	No				
30	COULTON PARK	1988	No				
33	COULTON PARK	1988	No				
39	COULTON PARK	1988	No			 	



40	COLUTON DARK	1000	Vas	No	No			
	COULTON PARK	1988	Yes	No	No			
44	COULTON PARK	1986	Yes	No	No			
45	COULTON PARK	1988	No					
52	COULTON PARK	1986	No					
53	COULTON PARK	1986	Yes	No	No			
55	COULTON PARK	1988	Yes	No	No			
56	COULTON PARK	1988	Yes	No	No			
59	COULTON PARK	1988	Yes	No	No			
11	CRANE STREET	1986	Yes	No	No			
26	CRAWFORD STREET	1988	Yes	No	No			
3	CRESCENT ROAD	1987	No					
4	CRESCENT ROAD	1987	Yes	No	No			
11	CRESCENT ROAD	1986	Yes	No	No			
12	CRESCENT ROAD	1987	Yes	No	No			
17	CRESCENT ROAD	1987	No					
18	CRESCENT ROAD	1987	Yes	No	No			
21	CRESCENT ROAD	1987	Yes	No	No			
24	CRESCENT ROAD	1987	Yes	No	No			
32	CRESCENT ROAD	1987	Yes	No	No			
7	CURTIS ROAD	1986	Yes	No	No			
15	CURTIS ROAD	1986	Yes	No	No			WASHING MACHINE TO CLEANOUT
22	CURTIS ROAD	1986	Yes	No	No			
25	CURTIS ROAD	1986	Yes	No	No			
30	CURTIS ROAD	1986	No					
31	CURTIS ROAD	1986	Yes	No	No			
36	CURTIS ROAD	1986	Yes	Yes	Yes		SINK	SINK CONNECTED TO CLEANOUT
16	CURVE STREET	1988	No					
17	CURVE STREET	1987	Yes	No	No			
27	CURVE STREET	1987	Yes	Yes	Yes		GROUND	
38	CURVE STREET	1988	Yes	No	No			
41	CURVE STREET	1988	Yes	No	No			
44	CURVE STREET	1987	Yes	Yes	Yes		GROUND	
45	CURVE STREET	1987	Yes	No	No			
51	CURVE STREET	1987	Yes	No	No			
58	CURVE STREET	1985	Yes	No	No			
58	CURVE STREET	2008	Yes	No				
59	CURVE STREET	1986	Yes	Yes	Yes		GROUND	
59	CURVE STREET	2008	Yes	Yes	Yes	1	YARD	
65	CURVE STREET	1985	Yes	No	No	_	.,2	
65	CURVE STREET	2008	Yes	Yes	1.0			
70	CURVE STREET	1991	No					
70	CURVE STREET	2008	No					
70	CORVESTREET	2006	INU					



73	CURVE STREET	1986	Yes	No	No		
73	CURVE STREET	2008	Yes	No	INO		
77	CURVE STREET	1986	No	?	?	?	NO SUCH ADDRESS?
81	CURVE STREET	1986	Yes	: No	No	·	NO SOCH ADDRESS!
81	CURVE STREET	2008	Yes	No	INO		
82	CURVE STREET	1985	Yes	No	No		
82	CURVE STREET	2008	No	INO	INO		
87	CURVE STREET	1986	Yes	No	No		
87	CURVE STREET	2008	No	INO	INO		
5	CYNTHIA ROAD	1986	Yes	No	No		
10	CYNTHIA ROAD	1988	No	INO	INO		
15		1988					+
16	CYNTHIA ROAD CYNTHIA ROAD	1986	No Yes	No	No		
					No		
21	CYNTHIA ROAD CYNTHIA ROAD	1986 1986	Yes	No	No		
27			Yes	No	No		
	CYNTHIA ROAD	1988	No				
28 33	CYNTHIA ROAD	1988 1986	No	NI-	NI-		
	CYNTHIA ROAD		Yes	No	No		
34	CYNTHIA ROAD	1988	No	NI.			
12	DALE STREET	1987	Yes	No	No		
14	DALE STREET	1987	No				
18	DALE STREET	1987	No		.		
29	DALE STREET	1987	Yes	No	No		
30	DALE STREET	1987	Yes	Yes	No		
35	DALE STREET	1987	No				
43	DALE STREET	1987	No				
49	DALE STREET	1987	No				
56	DALE STREET	1987	No				
59	DALE STREET	1987	Yes	No	No		
67	DALE STREET	1987	No				
9/11	DALE STREET	1987	Yes	No	No		
15/17	DALE STREET	1987	Yes	No	No		
21/23	DALE STREET	1987	No				
22/24	DALE STREET	1987	No				
39/41	DALE STREET	1987	No		1		
44/46	DALE STREET	1987	No				
62/64	DALE STREET	1987	Yes	No	No		
11	DALEY STREET	1986	Yes	No	No		
16	DALEY STREET	1986	Yes	No	No		
17	DALEY STREET	1986	Yes	No	No		
23	DALEY STREET	1988	Yes	No	No		
29	DALEY STREET	1986	Yes	No	No		
32	DALEY STREET	1988	Yes	No	No		



35	DALEY STREET	1986	Yes	No	No			CLEANOUT OUTSIDE THE HOUSE
	-							CLEANOOT COTSIDE THE HOUSE
40	DALEY STREET	1988	Yes	No	No			
46	DALEY STREET	1986	Yes	No	No			
10	DAMON ROAD	1988	Yes	No	No			
18	DAMON ROAD	1987	Yes	No	No			
24	DAMON ROAD	1988	No					
32	DAMON ROAD	1987	Yes	No	No			CLEANOUT BEHIND WALL UNDER FLOOR
40	DAMON ROAD	1987	Yes	No	No			
48	DAMON ROAD	1988	Yes	No	No			
51	DAMON ROAD	1988	Yes	No	No			
52	DAMON ROAD	1988	Yes	No	No			
58	DAMON ROAD	1988	Yes	No	No			
63	DAMON ROAD	1988	Yes	No	No			
64	DAMON ROAD	1988	Yes	Yes	No			
69	DAMON ROAD	1988	Yes	Yes	Yes		PLUMBING	2 SUMP PUMPS
70	DAMON ROAD	1987	Yes	No	No			CLEANOUT IN CLOSET
76	DAMON ROAD	1987	Yes	No	No			CLEANOUT IN GARAGE
86	DAMON ROAD	1988	Yes	No	No			
89	DAMON ROAD	1988	Yes	No	No			
92	DAMON ROAD	1987	Yes	No	No			
99	DAMON ROAD	1987	Yes	No	No			
100	DAMON ROAD	1988	No					
105	DAMON ROAD	1988	Yes	No	No			
106	DAMON ROAD	1988	Yes	No	No			
112	DAMON ROAD	1988	Yes	No	No			
116	DAMON ROAD	1987	Yes	No	No			
121	DAMON ROAD	1988	Yes	No	No			
124	DAMON ROAD	1987	Yes	No	No			
127	DAMON ROAD	1987	Yes	No	No			
134	DAMON ROAD	1987	No					
139	DAMON ROAD	1987	No					
140	DAMON ROAD	1987	No					
146	DAMON ROAD	1987	Yes	No	No			
151	DAMON ROAD	1987	No					
157	DAMON ROAD	1987	No					
160	DAMON ROAD	1987	No					
163	DAMON ROAD	1987	Yes	No	No			
172	DAMON ROAD	1987	No		1			
179	DAMON ROAD	1987	Yes	No	No			
180	DAMON ROAD	1987	Yes	No	No			
188	DAMON ROAD	1987	Yes	No	No			
210	DAMON ROAD	1987	Yes	No	No	 		



59	DANA PLACE	1986	Yes	No	No		
60	DANA PLACE	1985	Yes	No	No		
95	DANA PLACE DANA PLACE	1985	Yes	No	No		
96/98	DANA PLACE	1985	Yes	No	No		
1	DARTMOUTH AVE	1986	Yes	Yes	No		
8	DARTMOUTH AVE	1986	Yes	No	No		
_							
11	DARTMOUTH AVE	1988	Yes	No	No		
14 20	DARTMOUTH AVE	1986	No				
26	DARTMOUTH AVE	1989	No	NI-	NI-		
	DARTMOUTH AVE	1988	Yes	No	No		
27	DARTMOUTH AVE	1986	Yes	No	No		
32	DARTMOUTH AVE	1986	Yes	No	No		
35	DARTMOUTH AVE	1987	No				
38	DARTMOUTH AVE	1988	Yes	No	No		
41	DARTMOUTH AVE	1986	Yes	No	Yes	SINK	
44	DARTMOUTH AVE	1989	No				
47	DARTMOUTH AVE	1989	No				
48	DARTMOUTH AVE	1989	No				
53	DARTMOUTH AVE	1988	Yes	No	No		
58	DARTMOUTH AVE	1989	No				
59	DARTMOUTH AVE	1988	Yes	No	No		
64	DARTMOUTH AVE	1988	Yes	No	No		
29	DAVENPORT ROAD	1987	Yes	No	No		
30	DAVENPORT ROAD	1988	No				
36	DAVENPORT ROAD	1987	Yes	No	No		
8	DAVID ROAD	1988	Yes	No	No		
14	DAVID ROAD	1988	Yes	No	No		
22	DAVID ROAD	1988	Yes	No	No		
27	DAVID ROAD	1987	Yes	No	No		CAP HIDDEN
28	DAVID ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
33	DAVID ROAD	1988	Yes	No	Yes	GROUND	
34	DAVID ROAD	1988	Yes	No	No		
38	DAVID ROAD	1988	No				
40	DAVID ROAD	1988	No				
52	DAVID ROAD	1988	Yes	No	No		
60	DAVID ROAD	1987	Yes	No	No		CAP HIDDEN
15	DAWSON DRIVE	1986	Yes	No	No		
20	DAWSON DRIVE	1986	Yes	No	No		
29	DAWSON DRIVE	1986	Yes	No	Yes		
30	DAWSON DRIVE	1986	No				
41	DAWSON DRIVE	1986	No				
49	DAWSON DRIVE	1986	No				
55	DAWSON DRIVE	1986	Yes	No	No		
56	DAWSON DRIVE	1988	No				



62 DAWSON DRIVE 1986 Yes No No No 63 DAWSON DRIVE 1988 NO 64 DAWSON DRIVE 1986 Yes No No No 71 DAWSON DRIVE 1986 Yes No No No 76 DAWSON DRIVE 1986 Yes No No No 77 DAWSON DRIVE 1988 Yes No No No 82 DAWSON DRIVE 1988 Yes No No No 85 DAWSON DRIVE 1988 Yes No No No 85 DAWSON DRIVE 1988 Yes No No No 91 DAWSON DRIVE 1988 Yes No No No 93 DAWSON DRIVE 1988 Yes No No No 94 DAWSON DRIVE 1988 Yes No No No 100 DAWSON DRIVE 1986 Yes No No No 110 DAWSON DRIVE 1986 Yes No No No 1110 DAWSON DRIVE 1986 Yes No No No 1110 DAWSON DRIVE 1986 Yes No No No 1111 DAWSON DRIVE 1986 Yes No No No 1112 DAWSON DRIVE 1986 Yes No No No 1115 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No No No 116 DAWSON DRIVE 1986 Yes No No No 117 DAWSON DRIVE 1986 Yes No No No 118 DAWSON DRIVE 1986 Yes No No No 119 DAWSON DRIVE 1986 Yes No No No 110 DAWSON DRIVE 1986 Yes No No No 111 DAWSON DRIVE 1986 Yes No No No 1126 DAWSON DRIVE 1986 No 1127 DAWSON DRIVE 1986 No 1128 DAWSON DRIVE 1986 Yes No No No 1134 DAWSON DRIVE 1986 Yes No No No 1140 DAWSON DRIVE 1986 Yes No No No 1141 DAWSON DRIVE 1986 Yes No No No 1441 DAWSON DRIVE 1986 Yes No No No 145 DAWSON DRIVE 1986 No No No 146 DAWSON DRIVE 1986 No No No 147 DAWSON DRIVE 1986 No No No No 148 DAWSON DRIVE 1986 Yes No No No No 148 DAWSON DRIVE 1986 No	
Columbridge	
71 DAWSON DRIVE 1986 Yes No No 76 DAWSON DRIVE 1986 Yes No No 77 DAWSON DRIVE 1988 Yes No No 82 DAWSON DRIVE 1988 Yes No No 85 DAWSON DRIVE 1988 Yes No No 91 DAWSON DRIVE 1988 Yes No No 93 DAWSON DRIVE 1988 Yes No No 99 DAWSON DRIVE 1988 Yes No No 100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No No No No	
76 DAWSON DRIVE 1986 Yes No No 77 DAWSON DRIVE 1988 Yes No No 82 DAWSON DRIVE 1986 Yes No No 85 DAWSON DRIVE 1986 Yes No No 91 DAWSON DRIVE 1988 Yes No No 93 DAWSON DRIVE 1988 Yes No No 99 DAWSON DRIVE 1988 Yes No No 100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No No No<	
77 DAWSON DRIVE 1988 Yes No No 82 DAWSON DRIVE 1986 Yes No No 85 DAWSON DRIVE 1986 Yes No No 91 DAWSON DRIVE 1988 Yes No No 93 DAWSON DRIVE 1988 Yes No No 99 DAWSON DRIVE 1986 Yes No No 100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes PLUMBING 119 DAWSON DRIVE 1986 No No Yes SINK 119 DAWSON DRIVE 1986 No No No No 127 DAWSON DRIVE 1986 Yes No<	
82 DAWSON DRIVE 1988 Yes No No 85 DAWSON DRIVE 1986 Yes No No 91 DAWSON DRIVE 1988 Yes No No 93 DAWSON DRIVE 1988 Yes No No 100 DAWSON DRIVE 1986 Yes No No 100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes PLUMBING 119 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No No No No 126 DAWSON DRIVE 1986 Yes No No No 133 DAWSON DRIVE 1986 Y	
85 DAWSON DRIVE 1986 Yes No No 91 DAWSON DRIVE 1988 Yes No No 93 DAWSON DRIVE 1988 Yes No No 99 DAWSON DRIVE 1988 Yes No No 100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes PLUMBING 119 DAWSON DRIVE 1986 No No Yes SINK 119 DAWSON DRIVE 1986 No No No No 127 DAWSON DRIVE 1986 Yes No No No 133 DAWSON DRIVE 1986 Yes No No No 140 DAWSON DRIVE 1986	
91 DAWSON DRIVE 1988 Yes No No 93 DAWSON DRIVE 1988 Yes No No 99 DAWSON DRIVE 1988 Yes No No 100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes PLUMBING 119 DAWSON DRIVE 1986 Yes No Yes SINK 126 DAWSON DRIVE 1986 No No No No 127 DAWSON DRIVE 1986 Yes No No No 133 DAWSON DRIVE 1986 Yes No No No 140 DAWSON DRIVE 1986 No No No 141 DAWSON DRIVE 198	
93 DAWSON DRIVE 1988 Yes No No 99 DAWSON DRIVE 1986 Yes No No 100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No No No No 126 DAWSON DRIVE 1986 Yes No No No 133 DAWSON DRIVE 1986 Yes No No No 134 DAWSON DRIVE 1986 Yes No No No 140 DAWSON DRIVE 1986 No No No No 141 DAWSON DRIVE 1986 No No No No 147	
99 DAWSON DRIVE 1988 Yes No No 100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No No No No 126 DAWSON DRIVE 1986 Yes No No No 133 DAWSON DRIVE 1986 Yes No No No 134 DAWSON DRIVE 1986 Yes No No No 140 DAWSON DRIVE 1986 No No No No 141 DAWSON DRIVE 1986 No No No No 148 DAWSON DRIVE 1986 Yes No No No	
100 DAWSON DRIVE 1986 Yes No No 110 DAWSON DRIVE 1986 Yes No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No No No No 126 DAWSON DRIVE 1986 Yes No No No 133 DAWSON DRIVE 1986 Yes No No No 134 DAWSON DRIVE 1986 Yes No No No 140 DAWSON DRIVE 1986 No No No No 141 DAWSON DRIVE 1986 No No No No 148 DAWSON DRIVE 1986 Yes No No No 153 DAWSON DRIVE 1986 Yes No No No	
110 DAWSON DRIVE 1986 Yes No No No 111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No Image: No	
111 DAWSON DRIVE 1986 Yes Yes Yes PLUMBING 115 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No No No No 126 DAWSON DRIVE 1986 No N	
115 DAWSON DRIVE 1986 Yes No Yes SINK 119 DAWSON DRIVE 1986 No	
119 DAWSON DRIVE 1986 No 126 DAWSON DRIVE 1986 No 127 DAWSON DRIVE 1986 Yes No No 133 DAWSON DRIVE 1986 Yes No No 134 DAWSON DRIVE 1986 Yes No No 140 DAWSON DRIVE 1986 No No No 141 DAWSON DRIVE Yes No No No 147 DAWSON DRIVE 1986 No No No 148 DAWSON DRIVE 1986 Yes No No 153 DAWSON DRIVE 1986 No	
126 DAWSON DRIVE 1986 No	
127 DAWSON DRIVE 1986 Yes No No No 133 DAWSON DRIVE 1986 Yes No No No 134 DAWSON DRIVE 1986 Yes No No No 140 DAWSON DRIVE 1986 No No No No 141 DAWSON DRIVE 1986 No No No No 147 DAWSON DRIVE 1986 Yes No No No 148 DAWSON DRIVE 1986 Yes No No No 153 DAWSON DRIVE 1986 No No No No	
133 DAWSON DRIVE 1986 Yes No No 134 DAWSON DRIVE 1986 Yes No No 140 DAWSON DRIVE 1986 No No No 141 DAWSON DRIVE Yes No No No 147 DAWSON DRIVE 1986 No No No No 148 DAWSON DRIVE 1986 Yes No No No 153 DAWSON DRIVE 1986 No No No No	
134 DAWSON DRIVE 1986 Yes No No 140 DAWSON DRIVE 1986 No No 141 DAWSON DRIVE Yes No No 147 DAWSON DRIVE 1986 No No 148 DAWSON DRIVE 1986 Yes No No 153 DAWSON DRIVE 1986 No No No	
140 DAWSON DRIVE 1986 No <t< td=""><td></td></t<>	
141 DAWSON DRIVE Yes No No 147 DAWSON DRIVE 1986 No No 148 DAWSON DRIVE 1986 Yes No No 153 DAWSON DRIVE 1986 No No	
147 DAWSON DRIVE 1986 No <t< td=""><td></td></t<>	
148 DAWSON DRIVE 1986 Yes No No 153 DAWSON DRIVE 1986 No Incomparison of the property of t	
153 DAWSON DRIVE 1986 No	
157 DAWSON DRIVE 1096 No.	
137 DAWSON DRIVE 1900 NO	
160 DAWSON DRIVE 1986 Yes No No	
165 DAWSON DRIVE 1986 Yes No No	
170 DAWSON DRIVE 1986 Yes No No	
305 DEDHAM AVE 1988 No	
311 DEDHAM AVE 1988 No	
317 DEDHAM AVE 1987 Yes No No	
323 DEDHAM AVE 1988 Yes No No	
331 DEDHAM AVE 1987 Yes No No	
361 DEDHAM AVE 1990 Yes Yes Yes GROUND	
369 DEDHAM AVE 1989 Yes No No	
379 DEDHAM AVE 1987 Yes Yes Yes GROUND	
391 DEDHAM AVE 1987 Yes Yes Yes GROUND	
399 DEDHAM AVE 1987 Yes Yes Yes SEWER	
401 DEDHAM AVE 1988 No	
403 DEDHAM AVE 1987 Yes Yes Yes GROUND	
405 DEDHAM AVE 1987 Yes Yes Yes GROUND	
407 DEDHAM AVE 1988 No	
409 DEDHAM AVE 1988 No	



411	DEDHAM AVE	1987	Yes	No	No			
415	DEDHAM AVE	1987	Yes	Yes	Yes		GROUND	
423	DEDHAM AVE	1987	Yes	Yes	Yes		GROUND	
435	DEDHAM AVE	1988	No					
447	DEDHAM AVE	1987	Yes	No	No			
479	DEDHAM AVE	1987	Yes	No	No			
17	DEERFIELD ROAD	1991	No	-				
17	DEERFIELD ROAD	2008	Yes	Yes	Yes	1	PIPE INTO GROUND OUTSIDE OF HOUSE	
18	DEERFIELD ROAD	1985	Yes	Yes	No			BACK WATER VALVE CONNECTED TO CLEANOUT
18	DEERFIELD ROAD	2008	No					OWNER WILL CALL TO MAKE APPT.
24	DEERFIELD ROAD	1985	Yes	Yes	No			
24	DEERFIELD ROAD	2008	No					
30	DEERFIELD ROAD	1986	Yes	No	Yes		PLUMBING	POSSIBLE BACK WATER VALVE AT CLEANOUT
30	DEERFIELD ROAD	2008	No					
40	DEERFIELD ROAD	1985	Yes	Yes	No			CLEANOUT NOT VISIBLE
40	DEERFIELD ROAD	2008	No					DOES NOT SPEAK ENGLISH
46	DEERFIELD ROAD	1986	Yes	No	No			
46	DEERFIELD ROAD	2008	No					
47	DEERFIELD ROAD	1986	Yes	No	No			
47	DEERFIELD ROAD	2008	Yes	Yes	Yes	2	OWNER SAYSTO TOWN DRAIN	
54	DEERFIELD ROAD	1986	Yes	No	No			
54	DEERFIELD ROAD	2008	Yes	No	Yes	2	YARD	
59	DEERFIELD ROAD	1986	Yes	No	No			
59	DEERFIELD ROAD	2008	Yes	No				
60	DEERFIELD ROAD	1985	Yes	No	No			
60	DEERFIELD ROAD	2008	No					
66	DEERFIELD ROAD	1985	Yes	Yes	No			HAS OPEN VENT TRAP AT CLEANOUT
66	DEERFIELD ROAD	2008	Yes	No				NEW NO HOUSE #
70	DEERFIELD ROAD	1986	Yes	No	No			
70	DEERFIELD ROAD	2008	Yes	Yes	Yes	1	YARD	
74	DEERFIELD ROAD	2008	Yes	No				
75	DEERFIELD ROAD	1986	Yes	No	No			
75	DEERFIELD ROAD	2008	Yes	Yes	Yes	3	OWNER SAYS IS CONNECTED TO THE DRAIN SYSTEM	GUTTERS AND PUMP DISCHARGE TO CATCH BASIN (FROM OWNER)
81	DEERFIELD ROAD	1986	Yes	No	No			
81	DEERFIELD ROAD	2008	Yes	No				FINISHED BASEMENT



82	DEERFIELD ROAD	1986	Yes	Yes	No			BACK WATER VALVE OPEN, HOOKED DIRECTLY TO CAP
82	DEERFIELD ROAD	2008	No					
88	DEERFIELD ROAD	1991	No					
88	DEERFIELD ROAD	2008	No					
89	DEERFIELD ROAD	1986	Yes	No	No			
89	DEERFIELD ROAD	2008	Yes	Yes	Yes	1	YARD	
92	DEERFIELD ROAD	1989	No	,	?		?	NO SUCH ADDRESS?
95	DEERFIELD ROAD	1986	Yes	No	No			
95	DEERFIELD ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	
96	DEERFIELD ROAD	1985	Yes	Yes	No			
96	DEERFIELD ROAD	2008	Yes	Yes	Yes	2	OWNER SYS TO TOWN DRAIN	
7	DEFRANCESCO CIRCLE	1986	Yes	No	No			
14	DEFRANCESCO CIRCLE	1988	Yes	No	No			
15	DEFRANCESCO CIRCLE	1986	Yes	No	No			
22	DEFRANCESCO CIRCLE	1986	Yes	No	No			
23	DEFRANCESCO CIRCLE	1986	No					
26	DEFRANCESCO CIRCLE	1986	Yes	No	No			
30	DEFRANCESCO CIRCLE	1988	Yes	No	No			
8	DELL AVE	1988	Yes	No	No			
12	DELL AVE	1986	Yes	No	No			
20	DELL AVE	1986	Yes	No	No			
21	DELL AVE	1989	No					
26	DELL AVE	1986	No					
33	DELL AVE	1989	Yes	No	No			
36	DELL AVE	1988	Yes	No	No			
3	DOANE AVE	1988	Yes	No	No			
4	DOANE AVE	1988	Yes	No	No			
11	DOANE AVE	1986	Yes	No	No			
14	DOANE AVE	1986	Yes	No	No			
17	DOANE AVE	1988	Yes	No	No			
24	DOANE AVE	1988	Yes	No	No			
6	DOGWOOD LANE	1986	Yes	No	No			
14	DOGWOOD LANE	1988	Yes	No	No			
18	DOGWOOD LANE	1986	Yes	No	No			
23	DOGWOOD LANE	1986	Yes	No	No			
24	DOGWOOD LANE	1986	Yes	No	No			
31	DOGWOOD LANE	1986	Yes	No	No			
32	DOGWOOD LANE	1986	Yes	No	No			CLEANOUT NOT VISIBLE
38	DOGWOOD LANE	1986	Yes	No	No			
39	DOGWOOD LANE	1986	Yes	No	No			
44	DOGWOOD LANE	1986	Yes	No	No			
45	DOGWOOD LANE	1988	Yes	No	No			CLEANOUT NOT VISIBLE



7	DONNA ROAD	1986	Vos	No	No			
			Yes	No	No			
14	DONNA ROAD	1989	No	N	NI-			
19	DONNA ROAD	1986	Yes	No	No			
22	DONNA ROAD	1988	Yes	No	No			
29	DONNA ROAD	1989	No					
30	DONNA ROAD	1986	Yes	No	No			
38	DONNA ROAD	1986	Yes	No	No			
39	DONNA ROAD	1988	Yes	No	No			
46	DONNA ROAD	1988	Yes	No	No			
47	DONNA ROAD	1988	Yes	No	No			
54	DONNA ROAD	1986	Yes	No	No			
57	DONNA ROAD	1986	Yes	No	No			
60	DONNA ROAD	1986	Yes	No	No			
65	DONNA ROAD	1988	Yes	No	No			
68	DONNA ROAD	1988	Yes	No	Yes		GROUND	
75	DONNA ROAD	1986	Yes	No	No			
76	DONNA ROAD	1989	No					
15	DOUGLAS ROAD	1986	Yes	No	No			
18	DOUGLAS ROAD	1986	Yes	No	No			
23	DOUGLAS ROAD	1988	Yes	No	No			
24	DOUGLAS ROAD	1986	No					
28	DOUGLAS ROAD	1988	Yes	No	No			
35	DOUGLAS ROAD	1986	Yes	No	No			
36	DOUGLAS ROAD	1988	Yes	No	No			
42	DOUGLAS ROAD	1986	Yes	No	No			
43	DOUGLAS ROAD	1988	Yes	No	No			
48	DOUGLAS ROAD	1988	Yes	No	No			
51	DOUGLAS ROAD	1988	Yes	No	No			
54	DOUGLAS ROAD	1988	Yes	No	No			
57	DOUGLAS ROAD	1988	Yes	No	No			
60	DOUGLAS ROAD	1986	Yes	No	No			
65	DOUGLAS ROAD	1988	No					
66	DOUGLAS ROAD	1988	Yes	No	No			
72	DOUGLAS ROAD	1986	Yes	No	No			
75	DOUGLAS ROAD	1988	Yes	No	No			
80	DOUGLAS ROAD	1988	No					
86	DOUGLAS ROAD	1988	No					
92	DOUGLAS ROAD	1986	No					
108	DOUGLAS ROAD	1988	Yes	No	No			
4	DUNBARTON ROAD	1988	No	-				
12	DUNBARTON ROAD	1986	Yes	No	No			
15	DUNBARTON ROAD	1988	Yes	No	No			
11	DUNSTER ROAD	1986	Yes	No	No			
17	DUNSTER ROAD	1986	Yes	No	No			
1/	בסווסובוו ווטאם	1500	103	140	. 10	I		1



20	DUNSTER ROAD	1986	Yes	No	Yes	SINK	CAP BURIED
25	DUNSTER ROAD	1989	Yes	No	No		
28	DUNSTER ROAD	1986	Yes	No	No		
33	DUNSTER ROAD	1989	No				
34	DUNSTER ROAD	1988	Yes	No	No		
40	DUNSTER ROAD	1988	Yes	No	No		
45	DUNSTER ROAD	1988	Yes	No	No		
48	DUNSTER ROAD	1986	Yes	No	No		
51	DUNSTER ROAD	1989	No				
58	DUNSTER ROAD	1986	Yes	No	No		
66	DUNSTER ROAD	1986	Yes	No	No		
73	DUNSTER ROAD	1988	Yes	No	No		CLEANOUT UNDER FLOOR
23	DWIGHT ROAD	1988	Yes	No	No		
6	EATON ROAD	1986	Yes	No	No		
11	EATON ROAD	1988	Yes	No	No		
21	EATON ROAD	1988	No				
22	EATON ROAD	1986	Yes	No	No		
28	EATON ROAD	1986	Yes	No	No		
29	EATON ROAD	1988	Yes	No	No		
36	EATON ROAD	1986	Yes	No	No		
37	EATON ROAD	1988	Yes	No	No		
40	EATON ROAD	1988	Yes	No	No		
43	EATON ROAD	1988	Yes	No	No		
46	EATON ROAD	1988	Yes	No	No		CLEANOUT UNDER FLOOR
49	EATON ROAD	1986	No				
54	EATON ROAD	1986	No				
60	EATON ROAD	1986	No				
61	EATON ROAD	1986	Yes	No	No		
66	EATON ROAD	1988	Yes	No	No		
69	EATON ROAD	1988	Yes	No	No		
74	EATON ROAD	1986	Yes	No	No		
75	EATON ROAD	1988	No				
80	EATON ROAD	1988	Yes	No	No		
81	EATON ROAD	1988	No				
86	EATON ROAD	1986	No				
8	EDGEWATER DRIVE	1988	Yes	Yes	Yes	GROUND	
11	EDGEWATER DRIVE	1988	Yes	Yes	Yes	PLUMBING	
18	EDGEWATER DRIVE	1988	No				
18	EDGEWATER DRIVE	1988	No				
20	EDGEWATER DRIVE	1988	Yes	No	No		
25	EDGEWATER DRIVE	1988	Yes	Yes	Yes	GROUND	
30	EDGEWATER DRIVE	1988	Yes	No	No		
40	EDGEWATER DRIVE	1987	Yes	No	No		
41	EDGEWATER DRIVE	1987	Yes	Yes	Yes	GROUND	



50	EDGEWATER DRIVE	1987	Yes	No	No		
53	EDGEWATER DRIVE	1988	No	INO	INO		
64	EDGEWATER DRIVE	1988	No				
73	EDGEWATER DRIVE	1988	Yes	Yes	Yes	GROUND	
76	EDGEWATER DRIVE	1987	Yes	No	No	GROUND	CAP HIDDEN
88	EDGEWATER DRIVE	1988	Yes	No	No		CAP HIDDEN
95	EDGEWATER DRIVE	1988	Yes	No	Yes		
100	EDGEWATER DRIVE	1987	Yes	No	Yes		
111	EDGEWATER DRIVE	1988	No No	INO	res		
111	EDGEWATER DRIVE	1987	Yes	No	No		CAP HIDDEN
124	EDGEWATER DRIVE	1988	Yes	Yes	Yes	GROUND	CAP HIDDEN
						GROUND	
129	EDGEWATER DRIVE	1987	Yes	No	No	CDOLIND	
134	EDGEWATER DRIVE	1988	Yes	Yes	Yes	GROUND	
141	EDGEWATER DRIVE	1988	No				
148	EDGEWATER DRIVE	1987	Yes	No	No		
151	EDGEWATER DRIVE	1987	Yes	No	No		05,445,545,454,54,04,05
160	EDGEWATER DRIVE	1987	Yes	Yes	Yes	GROUND	SEWER EASEMENT IN BACK OF HOUSE
172	EDGEWATER DRIVE	1988	No				
182	EDGEWATER DRIVE	1987	Yes	Yes	Yes	SEWER	
189	EDGEWATER DRIVE	1988	No				
190	EDGEWATER DRIVE	1988	Yes	Yes	Yes	GROUND	
200	EDGEWATER DRIVE	1987	Yes	Yes	Yes	GROUND	
205	EDGEWATER DRIVE	1988	Yes	No	No		
217	EDGEWATER DRIVE	1988	Yes	No	No		
218	EDGEWATER DRIVE	1987	Yes	Yes	Yes	SEWER	
228	EDGEWATER DRIVE	1988	Yes	Yes	Yes	GROUND	
237	EDGEWATER DRIVE	1987	Yes	No	No		
238	EDGEWATER DRIVE	1988	Yes	No	No		
250	EDGEWATER DRIVE	1987	Yes	No	No		
259	EDGEWATER DRIVE	1987	Yes	No	No		CAP HIDDEN
264	EDGEWATER DRIVE	1988	No				
271	EDGEWATER DRIVE	1987	Yes	No	No		CAP HIDDEN
278	EDGEWATER DRIVE	1987	Yes	No	No		
283	EDGEWATER DRIVE	1988	Yes	No	No		
290	EDGEWATER DRIVE	1987	Yes	No	No		
30	EDGEWATER LANE	1987	Yes	No	No		CAP HIDDEN
40	EDGEWATER LANE	1987	Yes	No	No		
41	EDGEWATER LANE	1988	Yes	No	No		
69	EDGEWATER LANE	1987	Yes	No	No		
14	EDGEWOOD STREET	1986	Yes	No	No		
18	EDGEWOOD STREET	1988	Yes	No	No		
21	EDGEWOOD STREET	1986	Yes	No	Yes	GROUND	
27	EDGEWOOD STREET	1986	Yes	No	Yes	GROUND	



38	EDGEWOOD STREET	1986	Yes	No	No	
12	EDGEWOOD STREET	1988	Yes	No	No	
19	EDWARDELL ROAD	1988	Yes	No	No	CLEANOUT NOT VISIBLE
41	EDWARDELL ROAD	1986	Yes	No	No	CLEANOOT NOT VISIBLE
50	EDWARDELL ROAD	1988	Yes	No	No	
53	EDWARDELL ROAD	1988	Yes	No	No	
56	EDWARDELL ROAD	1988	Yes	No	No	
61	EDWARDELL ROAD	1986	Yes	No	No	
64	EDWARDELL ROAD	1989	Yes	No	No	
69	EDWARDELL ROAD	1989	Yes	No	No	
70	EDWARDELL ROAD	1986		No	No	
			Yes		-	
75	EDWARDELL ROAD	1986	Yes	No	No	
76	EDWARDELL ROAD	1988	Yes	No	No	
77	EDWARDELL ROAD	1989	No			
82	EDWARDELL ROAD	1988	Yes	No	No	
89	EDWARDELL ROAD	1986	Yes	No	No	
90	EDWARDELL ROAD	1989	No			
95	EDWARDELL ROAD	1989	Yes	No	No	
96	EDWARDELL ROAD	1988	Yes	No	No	
101	EDWARDELL ROAD	1989	No			
102	EDWARDELL ROAD	1988	Yes	No	No	
107	EDWARDELL ROAD	1988	Yes	No	No	
108	EDWARDELL ROAD	1986	Yes	No	No	
114	EDWARDELL ROAD	1986	Yes	No	No	
115	EDWARDELL ROAD	1988	Yes	No	No	
8	ELDER ROAD	1986	Yes	Yes	Yes	SUMP PUMP NOT CONNECTED
11	ELDER ROAD	1988	Yes	Yes	Yes	
14	ELDER ROAD	1986	Yes	No	No	CLEANOUT NOT VISIBLE
17	ELDER ROAD	1986	Yes	No	No	
23	ELDER ROAD	1988	Yes	No	No	
26	ELDER ROAD	1988	Yes	No	No	
31	ELDER ROAD	1988	No			
36	ELDER ROAD	1988	Yes	No	No	
37	ELDER ROAD	1988	Yes	No	No	
43	ELDER ROAD	1986	Yes	Yes	No	
44	ELDER ROAD	1988	Yes	No	No	
52	ELDER ROAD	1988	No			
53	ELDER ROAD	1988	Yes	No	No	
56	ELDER ROAD	1988	No			
64	ELDER ROAD	1988	Yes	No	No	CLEANOUT IN GARAGE
65	ELDER ROAD	1988	Yes	No	No	
77	ELDER ROAD	1988	Yes	No	No	
78	ELDER ROAD	1988	No			



83	ELDER ROAD	1986	Yes	No	No		
86	ELDER ROAD	1988	Yes	No	No		+
89	ELDER ROAD ELDER ROAD	1988	No	INO	INO		+
94	ELDER ROAD	1986	Yes	No	No		+
100	ELDER ROAD	1988	Yes	No No	No No		
103	ELDER ROAD ELDER ROAD	1986	No	INO	INO		+
103		1986		No	No		
110	ELDER ROAD ELDER ROAD	1986	Yes	No	No		
116		1986	Yes	No	No	DLLIMBING	
	ELDER ROAD ELDER ROAD		Yes	Yes	Yes	PLUMBING	
117		1988	Yes	No	No		
124	ELDER ROAD	1988	Yes	No	No		
5	ELIOT STREET	1989	Yes	No	No		
6	ELIOT STREET	1988	Yes	No	No		
15	ELIOT STREET	1986	Yes	No	Yes	SEWER	
16	ELIOT STREET	1986	Yes	No	No		
17	ELIOT STREET	1989	No				
20	ELIOT STREET	1989	No				
26	ELIOT STREET	1988	Yes	No	No		
32	ELIOT STREET	1989	Yes	No	No		
36	ELIOT STREET	1988	Yes	No	No		CLEANOUT IN GARAGE
37	ELIOT STREET	1986	Yes	No	No		
43	ELIOT STREET	1988	Yes	No	No		
45	ELIOT STREET	1986	Yes	No	No		
49	ELIOT STREET	1988	Yes	No	No		
1	ELIZABETH CIRCLE	1987	No				
1	ELIZABETH CIRCLE	1994	No				ROOF LEADER
4	ELIZABETH CIRCLE	1987	Yes	No	No		
10	ELIZABETH CIRCLE	1987	Yes	No	No		
10	ELIZABETH CIRCLE	1994	No				ROOF LEADER
11	ELIZABETH CIRCLE	1987	Yes	No	No		CAP IN GARAGE
11	ELIZABETH CIRCLE	1994	No				ROOF LEADER
4	ELLICOTT STREET	1988	Yes	No	No		
14	ELLICOTT STREET	1988	Yes	No	No		
18	ELLICOTT STREET	1986	Yes	No	Yes	SINK	
24	ELLICOTT STREET	1984	Yes	No	No		
29	ELLICOTT STREET	1988	Yes	No	No		
30	ELLICOTT STREET	1986	Yes	No	No		
35	ELLICOTT STREET	1988	Yes	No	No		
38	ELLICOTT STREET	1986	Yes	No	No		
41	ELLICOTT STREET	1986	Yes	No	No		
44	ELLICOTT STREET	1989	No				
47	ELLICOTT STREET	1986	Yes	No	No		
51	ELLICOTT STREET	1986	Yes	No	No		
52	ELLICOTT STREET	1988	Yes	No	No		



59	ELLICOTT STREET	1989	Yes	No	No		
60	ELLICOTT STREET	1986	Yes	No	No		
66	ELLICOTT STREET	1986	Yes	No	No		
67	ELLICOTT STREET	1989	No	110	140		
76	ELLICOTT STREET	1986	Yes	No	No		
86	ELLICOTT STREET	1986	Yes	No	No		
90	ELLICOTT STREET	1988	Yes	No	No		
93	ELLICOTT STREET	1988	Yes	No	No		
96	ELLICOTT STREET	1988	Yes	No	No		
99	ELLICOTT STREET	1988	Yes	No	No		
102	ELLICOTT STREET	1988	Yes	No	No		
107		1986		No	No		
107	ELLICOTT STREET ELLICOTT STREET	1986	Yes	No	No		
			Yes				
56/58	ELLICOTT STREET	1986	Yes	No	No		
33 41	ELMWOOD ROAD ELMWOOD ROAD	1988 1986	Yes Yes	No No	No No		
49	ELMWOOD ROAD	1988	Yes	No	No		
54	ELMWOOD ROAD	1988	Yes	No	No		
64	ELMWOOD ROAD	1986	Yes	No	No		
70	ELMWOOD ROAD	1989	Yes	No	No		
78	ELMWOOD ROAD	1988	No				
84	ELMWOOD ROAD	1989	Yes	No	No		
90	ELMWOOD ROAD	1989	No				
96	ELMWOOD ROAD	1986	Yes	No	No		
102	ELMWOOD ROAD	1988	Yes	No	No		
110	ELMWOOD ROAD	1986	Yes	No	No		
124	ELMWOOD ROAD	1988	Yes	No	No		
132	ELMWOOD ROAD	1988	Yes	No	No		
138	ELMWOOD ROAD	1988	Yes	No	No		
144	ELMWOOD ROAD	1988	Yes	No	No		
154	ELMWOOD ROAD	1986	Yes	No	No		
160	ELMWOOD ROAD	1988	Yes	No	No		
166	ELMWOOD ROAD	1986	Yes	No	No		
171	ELMWOOD ROAD	1986	Yes	No	No		
172	ELMWOOD ROAD	1988	Yes	No	No		
180	ELMWOOD ROAD	1986	Yes	No	No		
183	ELMWOOD ROAD	1986	Yes	No	No		
186	ELMWOOD ROAD	1986	Yes	No	No		
191	ELMWOOD ROAD	1986	Yes	No	No		
194	ELMWOOD ROAD	1988	Yes	No	No		
200	ELMWOOD ROAD	1986	Yes	No	No		
201	ELMWOOD ROAD	1986	No				
208	ELMWOOD ROAD	1986	No				
214	ELMWOOD ROAD	1986	No				



221	ELMWOOD ROAD	1986	Yes	No	No		
224	ELMWOOD ROAD	1986	Yes	No	No		
1	EMERSON PLACE	1985	Yes	No	No		
7	EMERSON PLACE	1986	Yes	Yes	No		
7	EMERSON PLACE	1986	Yes	No	No		
10	EMERSON PLACE	1986	Yes	No	No		
11	EMERSON PLACE	1985	Yes	No	No		
13	EMERSON PLACE	1986	Yes	Yes	No		
16	EMERSON PLACE	1985	Yes	No	No		
17	EMERSON PLACE	1986	Yes	Yes	No		
18	EMERSON PLACE	1989	Yes	No	No		
19	EMERSON PLACE	1985	Yes	No	No		
22	EMERSON PLACE	1985	Yes	No	No		
23	EMERSON PLACE	1986	Yes	No	Yes	GROUND	
26	EMERSON PLACE	1985	Yes	Yes	No	GROUND	
28	EMERSON PLACE	1986	Yes	No	No		
29	EMERSON PLACE	1985	Yes	Yes	Yes	GROUND	
30		1985		Yes	No	GROUND	
31	EMERSON PLACE EMERSON PLACE	1986	Yes			CDOLIND	
			Yes	Yes	Yes	GROUND	
32 32	EMERSON PLACE	1985	Yes	No	No		
	EMERSON PLACE	1986	Yes	No	No		
33	EMERSON PLACE	1986	Yes	No	No		
35	EMERSON PLACE	1989	Yes	No	No		
40	EMERSON PLACE	1986	Yes	No	No		
41	EMERSON PLACE	1986	Yes	No	No		
46	EMERSON PLACE	1986	Yes	No	No		
47	EMERSON PLACE	1985	Yes	No	No		
51	EMERSON PLACE	1986	Yes	No	No		
54	EMERSON PLACE	1986	Yes	No	No		CLEANOUT IN GARAGE ON WALL
54	EMERSON PLACE	1991	No				
62	EMERSON PLACE	1986	Yes	No	No		
65	EMERSON PLACE	1986	Yes	No	No		
68	EMERSON PLACE	1991	No				
74	EMERSON PLACE	1985	Yes	No	No		
80	EMERSON PLACE	1989	Yes	No	No		
6	ENSLIN ROAD	1988	Yes	No	No		
11	ENSLIN ROAD	1987	Yes	No	No		
18	ENSLIN ROAD	1987	Yes	No	No		
25	ENSLIN ROAD	1988	Yes	No	Yes	GROUND	
28	ENSLIN ROAD	1988	No				
31	ENSLIN ROAD	1987	Yes	Yes	Yes	GROUND	
36	ENSLIN ROAD	1988	Yes	No	No		
39	ENSLIN ROAD	1988	Yes	No	No		



AE I	ENCLIN DOAD	1007	Vos	No	No		1	-
45 50	ENSLIN ROAD	1987	Yes	No	No			
	ENSLIN ROAD	1988	No	NI.				
53	ENSLIN ROAD	1987	Yes	No	No			
10	EVANS ROAD	1986	Yes	Yes	No			
15	EVANS ROAD	1986	Yes	No	No			
16	EVANS ROAD	1988	Yes	Yes	Yes		GROUND	
20	EVANS ROAD	1988	Yes	No	No			
28	EVANS ROAD	1988	No					
16	EVELYN ROAD	1986	Yes	No	No			
23	EVELYN ROAD	1988	No					
29	EVELYN ROAD	1986	Yes	No	No			
35	EVELYN ROAD	1988	No					
41	EVELYN ROAD	1988	No					
44	EVELYN ROAD	1986	Yes	No	No			
49	EVELYN ROAD	1986	Yes	No	No			
52	EVELYN ROAD	1988	Yes	No	No			
55	EVELYN ROAD	1988	Yes	No	No			
60	EVELYN ROAD	1988	Yes	No	No			
61	EVELYN ROAD	1988	Yes	No	No			
62	EVELYN ROAD	1988	Yes	No	No			
67	EVELYN ROAD	1988	Yes	No	No			
73	EVELYN ROAD	1988	Yes	No	No			
74	EVELYN ROAD	1986	Yes	No	No			
79	EVELYN ROAD	1988	Yes	No	No			
80	EVELYN ROAD	1988	No					
86	EVELYN ROAD	1988	No					
87	EVELYN ROAD	1986	No					
92	EVELYN ROAD	1986	Yes	No	No			
93	EVELYN ROAD	1986	No					
99	EVELYN ROAD	1988	No					
103	EVELYN ROAD	1988	No					
109	EVELYN ROAD	1988	Yes	No	No			
110	EVELYN ROAD	1988	Yes	No	No			
115	EVELYN ROAD	1988	Yes	No	No			
118	EVELYN ROAD	1988	Yes	No	No			
125	EVELYN ROAD	1988	Yes	No	No			
131	EVELYN ROAD	1988	Yes	No	No			
132	EVELYN ROAD	1986	Yes	No	No			
137	EVELYN ROAD	1988	Yes	No	No			
144	EVELYN ROAD	1986	Yes	No	No			
147	EVELYN ROAD	1988	Yes	No	No			
153	EVELYN ROAD	1988	Yes	No	No			
160	EVELYN ROAD	1986	Yes	No	No			
161	EVELYN ROAD	1986	Yes	No	No			
101	LVLLINIOAD	1500	103	110	140	L	l .	<u> </u>



168	EVELYN ROAD	1988	Yes	No	No		
	EVELYN ROAD						
173 174		1988	Yes	No	No		
	EVELYN ROAD	1986	No	N-	NI-		
179	EVELYN ROAD	1988	Yes	No	No		
180	EVELYN ROAD	1988	Yes	No	No		
185	EVELYN ROAD	1988	No				
188	EVELYN ROAD	1988	No				
193	EVELYN ROAD	1988	No				
194	EVELYN ROAD	1988	No				
199	EVELYN ROAD	1986	Yes	No	No		
200	EVELYN ROAD	1988	Yes	No	No		
367	EVELYN ROAD	1988	No				
6	EVERGREEN ROAD	1988	Yes	No	Yes	GROUND	
12	EVERGREEN ROAD	1986	Yes	No	No		
17	EVERGREEN ROAD	1986	No				
18	EVERGREEN ROAD	1988	Yes	No	Yes	DRAIN	
4	FAIR OAKS PARK	1989	Yes	No	No		
7	FAIR OAKS PARK	1985	Yes	No	No		
19	FAIR OAKS PARK	1989	Yes	No	No		
24	FAIR OAKS PARK	1985	Yes	No	No		
25	FAIR OAKS PARK	1985	Yes	No	No		
31	FAIR OAKS PARK	1986	Yes	No	No		
37	FAIR OAKS PARK	1985	Yes	No	No		
53	FAIR OAKS PARK	1986	Yes	No	No		
58	FAIR OAKS PARK	1985	Yes	No	No		
61	FAIR OAKS PARK	1986	Yes	No	No		
64	FAIR OAKS PARK	1986	Yes	No	No		
67	FAIR OAKS PARK	1985	Yes	No	No		
71	FAIR OAKS PARK	1985	Yes	No	No		
72	FAIR OAKS PARK	1985	Yes	No	No		
76	FAIR OAKS PARK	1986	Yes	No	No		
79	FAIR OAKS PARK	1985	Yes	No	No		
83	FAIR OAKS PARK	1985	Yes	No	No		
84	FAIR OAKS PARK	1985	Yes	No	No		
89	FAIR OAKS PARK	1989	Yes	No	No		
90	FAIR OAKS PARK	1985	Yes	No	No		
95	FAIR OAKS PARK	1986	Yes	No	No		
95	FAIR OAKS PARK	1986	No				
96	FAIR OAKS PARK	1985	Yes	No	No		
101	FAIR OAKS PARK	1985	Yes	No	No		
102	FAIR OAKS PARK	1985	Yes	No	No		
107	FAIR OAKS PARK	1986	Yes	No	No		
115	FAIR OAKS PARK	1985	Yes	No	No		
131	FAIR OAKS PARK	1985	Yes	No	No		



155	FAIR OAKS PARK	1985	No				
162	FAIR OAKS PARK	1989	Yes	No	No		
165	FAIR OAKS PARK	1989	Yes	No	No		
166	FAIR OAKS PARK	1985	No				
172	FAIR OAKS PARK	1987	Yes	No	No		
177	FAIR OAKS PARK	1988	Yes	No	No		
178	FAIR OAKS PARK	1988	Yes	No	No		
204	FAIR OAKS PARK	1989	No				
208	FAIR OAKS PARK	1988	Yes	No	No		
210	FAIR OAKS PARK	1989	No				
215	FAIR OAKS PARK	1988	Yes	No	No		
8	FAIRFAX ROAD	1988	Yes	No	No		
9	FAIRFAX ROAD	1986	Yes	No	No		
10	FAIRFAX ROAD	1988	Yes	Yes	Yes	GROUND	
17	FAIRFAX ROAD	1988	Yes	No	No		
18	FAIRFAX ROAD	1989	Yes	No	No		
24	FAIRFAX ROAD	1986	Yes	No	No		
31	FAIRFAX ROAD	1986	Yes	No	No		
32	FAIRFAX ROAD	1989	Yes	No	No		
38	FAIRFAX ROAD	1988	Yes	No	No		
43	FAIRFAX ROAD	1989	Yes	Yes	Yes	GROUND	
5	FAIRFIELD STREET	1986	Yes	No	No		
14	FAIRFIELD STREET	1986	Yes	No	No		
15	FAIRFIELD STREET	1986	Yes	No	No		
19	FAIRFIELD STREET	1986	Yes	No	No		
25	FAIRFIELD STREET	1986	Yes	No	No		
26	FAIRFIELD STREET	1986	No				
31	FAIRFIELD STREET	1986	Yes	No	Yes	SINK	
32	FAIRFIELD STREET	1986	No				
36	FAIRFIELD STREET	1988	Yes	No	No		
39	FAIRFIELD STREET	1986	Yes	No	No		
40	FAIRFIELD STREET	1988	Yes	No	Yes	GROUND	
45	FAIRFIELD STREET	1986	Yes	No	Yes		
46	FAIRFIELD STREET	1986	Yes	No	No		
52	FAIRFIELD STREET	1986	Yes	No	No		
53	FAIRFIELD STREET	1986	No				
58	FAIRFIELD STREET	1986	Yes	No	No		
59	FAIRFIELD STREET	1986	Yes	No	No		
64	FAIRFIELD STREET	1986	Yes	No	No		
85	FAIRFIELD STREET	1986	Yes	No	No		
88	FAIRFIELD STREET	1988	Yes	No	No		
91	FAIRFIELD STREET	1986	Yes	No	No		
94	FAIRFIELD STREET	1986	Yes	No	No		
99	FAIRFIELD STREET	1986	Yes	No	No		



103	FAIRFIELD STREET	1986	Yes	No	No			
108	FAIRFIELD STREET	1986	Yes	No	No			
111	FAIRFIELD STREET	1986	No					
117	FAIRFIELD STREET	1986	No					NOT CONNECTED TO SEWER
120	FAIRFIELD STREET	1986	No					NOT CONNECTED TO SEWER
123	FAIRFIELD STREET	1986	No					NOT CONNECTED TO SEWER
126	FAIRFIELD STREET	1986	Yes	No	No			HOT CONNECTED TO SERVER
131	FAIRFIELD STREET	1986	Yes	No	No			
132	FAIRFIELD STREET	1986	Yes	No	No			
137	FAIRFIELD STREET	1986	Yes	No	No			
138	FAIRFIELD STREET	1986	No					
143	FAIRFIELD STREET	1986	No					NOT CONNECTED TO SEWER
144	FAIRFIELD STREET	1986	Yes	No	No			HOT CONNECTED TO SERVER
152	FAIRFIELD STREET	1986	No	110	110			
159	FAIRFIELD STREET	1986	No					
165	FAIRFIELD STREET	1986	Yes	No	No			
168	FAIRFIELD STREET	1986	No	110	110			
169	FAIRFIELD STREET	1986	Yes	No	No			
173	FAIRFIELD STREET	1986	Yes	No	No			
11	FAIRLAWN STREET	1989	No	110	110			
17	FAIRLAWN STREET	1986	Yes	No	No			
18	FAIRLAWN STREET	1986	Yes	No	No			
11	FAIRVIEW ROAD	2008	Yes	110	1.0			HOME ON SLAB
14	FAIRVIEW ROAD	1986	Yes	Yes	No			
14	FAIRVIEW ROAD	2008	Yes	No	110			
15	FAIRVIEW ROAD	1986	Yes	Yes	No			
15	FAIRVIEW ROAD	2008	Yes	No	1.0			
20	FAIRVIEW ROAD	1989	Yes	No	No			
20	FAIRVIEW ROAD	2008	Yes	No	114			
21	FAIRVIEW ROAD	1986	Yes	No	No			
21	FAIRVIEW ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	GETS WATER ONCE IN A GREAT WHILE
27	FAIRVIEW ROAD	2008	Yes	No	Yes	1	YARD	
27	FAIRVIEW ROAD		Yes	No	No			
28	FAIRVIEW ROAD	1986	Yes	No	Yes		GROUND	
28	FAIRVIEW ROAD	2008	Yes	No				
31	FAIRVIEW ROAD	1986	Yes	Yes	No			
37	FAIRVIEW ROAD	1986	Yes	No	No			
40	FAIRVIEW ROAD	1986	Yes	No	No			
40	FAIRVIEW ROAD	2008	No					
43	FAIRVIEW ROAD	1986	Yes	No	Yes			
48	FAIRVIEW ROAD	1989	Yes	No	No			
49	FAIRVIEW ROAD	1986	Yes	Yes	Yes		GROUND	
52	FAIRVIEW ROAD	1986	No					



52	FAIRVIEW ROAD	2008	Yes	No				
58	FAIRVIEW ROAD	1986	Yes	Yes	Yes		GROUND	
58	FAIRVIEW ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	
63	FAIRVIEW ROAD	1986	Yes	Yes	Yes	-	GROUND	
75	FAIRVIEW ROAD	2008	Yes	163	163		CHOCHE	HOME ON SLAB
80	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
83	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
87	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
88	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
93	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
94	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
99	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
100	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
105	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
106	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
111	FAIRVIEW ROAD	2008	Yes					HOME ON SLAB
?	FAIRVIEW ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	HOWE ON SEAD
. ; ?	FAIRVIEW ROAD	2008	Yes	Yes	Yes	1	YARD	
· ;	FAIRVIEW ROAD	2008	Yes	No	163	1	TAND	
?	FAIRVIEW ROAD	2008	Yes	INO				
?	FAIRVIEW ROAD	2008	Yes					NEW NO HOUSE #
?	FAIRVIEW ROAD	2008	No					NEW NO HOUSE #
11	FALCON STREET	1989	Yes	Yes	Yes		GROUND	
23	FALCON STREET	1989	Yes	No	No		GROUND	
29			<u> </u>	•			CDOUND	
30	FALCON STREET FALCON STREET	1989 1989	Yes	No	Yes		GROUND	
35	FALCON STREET	1989	Yes No	No	No			
36		1989		No	No			
42	FALCON STREET		Yes	No	No			
42	FALCON STREET	1987 1986	Yes	No	No			
66	FALCON STREET	1986	No	Vac	No			
	FALCON STREET		Yes	Yes	No			
72 79	FALCON STREET	1986 1989	Yes	No No	No No			
79 82	FALCON STREET FALCON STREET	1989	Yes Yes	No No	No			
90				•	+			
98	FALCON STREET	1989	Yes	No No	No			
	FALCON STREET	1989	Yes	No	No		CINIV	
103	FALCON STREET	1986	Yes	Yes	Yes		SINK	
106	FALCON STREET	1988	Yes	No	No			
129	FALCON STREET	1986	Yes	No	No			
137	FALCON STREET	1986	Yes	No	No			
143	FALCON STREET	1989	No	N	N.L.			
6	FAY LANE	1988	Yes	No No	No			
11	FAY LANE	1987	Yes	No	No			CARLURDEN
12	FAY LANE	1987	Yes	No	No			CAP HIDDEN



18	FAY LANE	1988	No					
19	FAY LANE	1988	Yes	No	No			
23	FAY LANE	1988	No	140	140			
26	FAY LANE	1987	Yes	No	No			
31	FAY LANE	1988	Yes	No	No			
32	FAY LANE	1988	Yes	No	No			
38	FAY LANE	1987	Yes	No	No			CAP HIDDEN
43	FAY LANE	1987	Yes	No	No			CALITIODEN
44	FAY LANE	1988	No	140	140			
49	FAY LANE	1988	No					
52	FAY LANE	1987	No					
55	FAY LANE	1988	Yes	No	No			
58	FAY LANE	1988	Yes	No	No			
25	FENTON STREET	1988	Yes	No	No			
3	FERNDALE ROAD	1986	Yes	No	No			
3	FERNDALE ROAD	2008	No	INU	INU			
6	FERNDALE ROAD	1986	Yes	Yes	Yes		GROUND	
b	FERNDALE ROAD	1900	res	res	163		PIPE INTO GROUND	
6	FERNDALE ROAD	2008	Vos	Yes	Voc	1	OUTSIDE/OWNER SAYS	
В	FERNDALE ROAD	2008	Yes	res	Yes	1	·	
12	FISHER STREET	1007	Vas	Vac	Vac		TO DRYWELL	
12 24		1987	Yes	Yes	Yes		GROUND	
138	FISHER STREET	1987	Yes	No	No			
	FISHER STREET	1987	No	V	NI-			
142	FISHER STREET	1987	Yes	Yes	No			
155	FISHER STREET	1987	Yes	No	No			
162	FISHER STREET	1987	Yes	No	No			
167	FISHER STREET	1987	Yes	No	No			
186	FISHER STREET	1987	Yes	No	No			
200	FISHER STREET	1988	Yes	No	No			
203	FISHER STREET	1987	No	NI.	N			
12	FLETCHER ROAD	1987	Yes	No	No			
15 23	FLETCHER ROAD	1988 1987	Yes	No	No			
	FLETCHER ROAD		No	V	V		CDOUND	
24	FLETCHER ROAD	1988	Yes	Yes	Yes		GROUND	
27	FLETCHER ROAD	1987	Yes	Yes	Yes		GROUND	
30	FLETCHER ROAD	1988	No	NI.				
106	FOREST STREET	1988	Yes	No	No			
116	FOREST STREET	1986	Yes	No	No			
132	FOREST STREET	1988	Yes	No	No			
138	FOREST STREET	1988	Yes	No	No			
146	FOREST STREET	1988	No					
158	FOREST STREET	1988	Yes	No	No			
184	FOREST STREET	1988	No					
190	FOREST STREET	1988	Yes	No	No			



208	FOREST STREET	1986	Yes	No	No			
226	FOREST STREET	1988	No		110			
230	FOREST STREET	1986	Yes	No	No			
246	FOREST STREET	1986	Yes	No	No			
107	FOX HILL ROAD	1987	Yes	No	No			
119	FOX HILL ROAD	1987	Yes	Yes	Yes			
130	FOX HILL ROAD	1987	Yes	No	No			CAP HIDDEN
137	FOX HILL ROAD	1988	Yes	No	No			GAT THE BETT
142	FOX HILL ROAD	1988	Yes	No	No			
147	FOX HILL ROAD	1987	Yes	No	No			
156	FOX HILL ROAD	1988	No	110	110			
170	FOX HILL ROAD	1987	Yes	No	No			
179	FOX HILL ROAD	1988	No	INO	INO			
186	FOX HILL ROAD	1988	No					
191	FOX HILL ROAD	1987	Yes	No	No			
203	FOX HILL ROAD	1988	Yes	No	No			
215	FOX HILL ROAD	1988	Yes	Yes	No			
227	FOX HILL ROAD	1988	Yes	No	No			
240	FOX HILL ROAD	1988	Yes	No	No			
241	FOX HILL ROAD	1987	Yes	No	No			
255	FOX HILL ROAD	1987	Yes	No	No			CAP HIDDEN
274	FOX HILL ROAD	1988	Yes	No	No			CAP HIDDEN
288	FOX HILL ROAD	1988		INO	INO			
3		1985	No	No	No			
3	FRANCES STREET		Yes	No	No			
	FRANCES STREET	2008	Yes	No	Voc		CDOLIND	
6	FRANCES STREET	1986	Yes No	No	Yes		GROUND	
6	FRANCES STREET	2008	-	N-	NI-			
18	FRANCES STREET	1985	Yes	No	No			
18 30	FRANCES STREET	2008	Yes	No	NI-			
	FRANCES STREET	1986	Yes	No	No			
30	FRANCES STREET	2008	No	NI.	V.		CROUND	
33 33	FRANCES STREET	1991	Yes	No	Yes		GROUND	
	FRANCES STREET	1991	Yes	No	Yes	1	GROUND	
33	FRANCES STREET	2008	Yes	Yes	Yes	1	YARD	
40	FRANCES STREET	1986	Yes	No	No	4	DDIVENAN	
40	FRANCES STREET	2008	Yes	Yes	Yes	1	DRIVEWAY	
45	FRANCES STREET	1986	Yes	No	No			
45	FRANCES STREET	2008	Yes	No				
50	FRANCES STREET	1986	Yes	No	No		CENTER (110 CET TO CET	
50	FRANCES STREET	2008	Yes	Yes	Yes	1	SEWER/HOSED TO SET TUB	
55	FRANCES STREET	1986	Yes	No	No			
55	FRANCES STREET	2008	Yes	Yes	Yes	1	PIPE INTO GROUND OUTSIDE OF HOUSE	



58	FRANCES STREET	1986	Vas	Vos	No	1		
58		2008	Yes	Yes	No			
61	FRANCES STREET	1985	Yes Yes	No Yes	No			
	FRANCES STREET				No	1	VADD	
61	FRANCES STREET	2008	Yes	Yes	Yes	1	YARD	
66	FRANCES STREET	1985	Yes	No	No			
66	FRANCES STREET	2008	No					
33	FRANK STREET	1988	No	NI.	N1 -			
14 22	FULLER BROOK AVE	1986	Yes	No	No			
	FULLER BROOK AVE	1986	Yes	No	No			DACK MATER VALVE
29	FULLER BROOK AVE	1986	Yes	Yes	No			BACK WATER VALVE
35	FULLER BROOK AVE	1986	Yes	No	No			DAG(())(ATED ()(A))(E
40	FULLER BROOK AVE	1986	Yes	No	No			BACK WATER VALVE
41	FULLER BROOK AVE	1986	Yes	No	No			
47	FULLER BROOK AVE	1986	Yes	No	No			
48	FULLER BROOK AVE	1986	Yes	No	No			
53	FULLER BROOK AVE	1986	Yes	No	No			
54	FULLER BROOK AVE	1986	Yes	No	No			
58	FULLER BROOK AVE	1986	Yes	No	Yes		GROUND	
61	FULLER BROOK AVE	1986	Yes	No	No			
66	FULLER BROOK AVE	1986	Yes	No	No			CLEANOUT WOULD BE DIFFICULT TO WORK FROM
71	FULLER BROOK AVE	1989	No					
9	FULLER ROAD	1980	Yes	No	No			
10	FULLER ROAD	1988	Yes	Yes	Yes		GROUND	
16	FULLER ROAD	1988	Yes	No	No			
24	FULLER ROAD	1988	Yes	No	No			
30	FULLER ROAD	1988	Yes	No	No			
31	FULLER ROAD	1988	Yes	No	No			
37	FULLER ROAD	1986	Yes	No	No			
38	FULLER ROAD	1986	Yes	No	No			
44	FULLER ROAD	1988	Yes	No	Yes			CLEANOUT NOT VISIBLE
50	FULLER ROAD	1986	No					
11	GAGE STREET	1987	Yes	No	No			
14	GAGE STREET	1988	Yes	No	No			
16	GAGE STREET	1988	No					
28	GAGE STREET	1987	Yes	No	No			
31	GAGE STREET	1988	No					
36	GAGE STREET	1988	Yes	No	No			
37	GAGE STREET	1988	No					
43	GAGE STREET	1988	Yes	No	No			CLEANOUT NOT VISIBLE
52	GAGE STREET	1987	Yes	No	No			
44/46	GAGE STREET	1988	No					
50	GARDEN STREET	1988	Yes	No	No			
56	GARDEN STREET	1988	Yes	No	No			



67	GARDEN STREET	1988	Yes	No	No		
68	GARDEN STREET	1987	Yes	No	No		
76	GARDEN STREET	1988	Yes	No	No		
80	GARDEN STREET	1988	Yes	No	No		
86	GARDEN STREET						
93		1988 1987	Yes	No	No No		
93	GARDEN STREET		Yes	No			
_	GARDEN STREET	1988	Yes	No	No		
101	GARDEN STREET	1988	No	NI.			
108	GARDEN STREET	1988	Yes	No	No		
109	GARDEN STREET	1987	Yes	No	No		
114	GARDEN STREET	1988	Yes	No	No		
115	GARDEN STREET	1988	No				
120	GARDEN STREET	1987	Yes	No	No		
123	GARDEN STREET	1987	Yes	No	No		
128	GARDEN STREET	1987	No				
129	GARDEN STREET		Yes	No	No		
134	GARDEN STREET	1987	Yes	No	No		
137	GARDEN STREET	1988	Yes	No	No		
140	GARDEN STREET	1987	Yes	No	No		
193	GARDEN STREET	1988	Yes	No	No		
207	GARDEN STREET	1988	Yes	No	No		
228	GARDEN STREET	1988	No				NO SUCH ADDRESS?
229	GARDEN STREET	1988	No				
235	GARDEN STREET	1987	Yes	No	No		
249	GARDEN STREET	1987	Yes	No	No		
261/263	GARDEN STREET	1987	Yes	No	No		
6	GARY ROAD	1986	Yes	No	No		
12	GARY ROAD	1986	Yes	No	No		
18	GARY ROAD	1986	Yes	Yes	Yes		
24	GARY ROAD	1986	Yes	No	No		
30	GARY ROAD	1986	Yes	No	No		
38	GARY ROAD	1987	Yes	No	No		
44	GARY ROAD	1986	No				
47	GARY ROAD	1986	Yes	No	No		
49	GARY ROAD	1986	Yes	No	No		
54	GARY ROAD	1988	No				
55	GARY ROAD	1988	Yes	No	No		
60	GARY ROAD	1988	Yes	No	No		
61	GARY ROAD	1986	Yes	Yes	Yes	PLUMBING	
68	GARY ROAD	1986	Yes	No	No		
69	GARY ROAD	1986	Yes	No	No		CLEANOUT UNDER STAIRS
74	GARY ROAD	1986	No				
75	GARY ROAD	1988	Yes	No	No		
80	GARY ROAD	1986	Yes	No	No		



81	GARY ROAD	1986	No				
86	GARY ROAD	1986	Yes	No	No		
90	GARY ROAD	1988	Yes	No	No		
100	GARY ROAD	1988	Yes	No	No		
11	GAY STREET	1986	Yes	No	No		
23	GAY STREET	1986	Yes	Yes	Yes	GROUND	
23	GATSIKEET	1900	163	165	163	GROUND	CLEANOUT BELOW BACK WATER
28	GAY STREET	1986	Yes	No	No		VALVE
36	GAY STREET	1986	Yes	Yes	Yes	GROUND	
37	GAY STREET	1986	Yes	No	No		
47	GAY STREET	1986	Yes	No	No		
55	GAY STREET	1989	Yes	Yes	Yes	GROUND	
58	GAY STREET	1986	Yes	No	No		
64	GAY STREET	1986	Yes	No	No		
65	GAY STREET	1986	Yes	No	No		
70	GAY STREET	1986	Yes	No	No		
75	GAY STREET	1987	Yes	No	No		
86	GAY STREET	1989	No				
89	GAY STREET	1986	Yes	No	No		
96	GAY STREET	1989	Yes	No	No		
100	GAY STREET	1986	Yes	No	No		
105	GAY STREET	1989	Yes	No	No		
106	GAY STREET	1989	Yes	No	No		
13	GAYLAND ROAD	1985	Yes	No	No		
17	GAYLAND ROAD	1986	Yes	No	No		
21	GAYLAND ROAD	1981	No				
27	GAYLAND ROAD	1989	Yes	No	No		
31	GAYLAND ROAD	1985	Yes	No	No		
37	GAYLAND ROAD	1985	Yes	No	No		
42	GAYLAND ROAD	1985	Yes	No	No		
51	GAYLAND ROAD	1986	Yes	No	No		
53	GAYLAND ROAD	1989	Yes	No	No		
57	GAYLAND ROAD	1985	Yes	No	No		
63	GAYLAND ROAD	1986	Yes	No	No		
64	GAYLAND ROAD	1991	No				
70	GAYLAND ROAD	1986	Yes	No	No		
71	GAYLAND ROAD	1989	Yes	No	No		
76	GAYLAND ROAD	1991	Yes	No	No		
77	GAYLAND ROAD	1986	Yes	No	No		
82	GAYLAND ROAD	1986	Yes	No	No		
83	GAYLAND ROAD	1985	Yes	No	No		
87	GAYLAND ROAD	1986	Yes	No	No		
88	GAYLAND ROAD	1985	Yes	No	No		
93	GAYLAND ROAD	1986	Yes	No	No		



94	GAYLAND ROAD	1985	Yes	No	No		
100	GAYLAND ROAD	1985	Yes	No	No		
101	GAYLAND ROAD	1989	Yes	No	No		PIPE NOT VISIBLE
110	GAYLAND ROAD	1986	Yes	No	No		1.1.2.1.6.1.1.6.1.5.2.2
111	GAYLAND ROAD	1985	Yes	No	No		
113	GAYLAND ROAD	1985	Yes	No	No		
115	GAYLAND ROAD	1986	Yes	No	No		
119	GAYLAND ROAD	1989	Yes	No	No		
124	GAYLAND ROAD	1985	Yes	No	Yes	SEWER	
130	GAYLAND ROAD	1985	Yes	No	No	SEVVEN	
5	GEORGE AGGOTT ROAD	1988	Yes	No	No		
6	GEORGE AGGOTT ROAD	1987	Yes	No	No		
12	GEORGE AGGOTT ROAD	1987	Yes	No	No		
17	GEORGE AGGOTT ROAD	1988	Yes	No	No		
18	GEORGE AGGOTT ROAD	1987	Yes	No	No		
26	GEORGE AGGOTT ROAD	1988	Yes	Yes	No		
31	GEORGE AGGOTT ROAD	1988	Yes	No	No		
32	GEORGE AGGOTT ROAD	1988	Yes	No	No		
38	GEORGE AGGOTT ROAD	1988	Yes	No	No		
39	GEORGE AGGOTT ROAD	1988	Yes	No	No		
43	GEORGE AGGOTT ROAD	1988	Yes	No	No		
2/13/1900	GEORGE AGGOTT ROAD	1987	Yes	No	No		
50	GEORGE AGGOTT ROAD	1987	Yes	No	No		
51	GEORGE AGGOTT ROAD	1987	Yes	No	No		
59	GEORGE AGGOTT ROAD	1988	No	INO	INO		
65	GEORGE AGGOTT ROAD	1988	No				
66	GEORGE AGGOTT ROAD	1987	Yes	No	No		
14		1986	Yes	No No			
15	GIBSON STREET GIBSON STREET	1988		INO	No		
22			No	No	No		
23	GIBSON STREET	1986 1988	Yes No	No	No		
29	GIBSON STREET GIBSON STREET	1988					
30			No	No	No		
14	GIBSON STREET GILBERT ROAD	1986 1986	Yes Yes	No No	No No		
				-	INO		
14 15	GILBERT ROAD	2008 1985	Yes	No No	No		
	GILBERT ROAD	2008	Yes		No		
15	GILBERT ROAD		Yes	No	No		
21	GILBERT ROAD	1985	Yes	No	No		FINISHED DASENATAT
21	GILBERT ROAD	2008	Yes	No	Vas	CROUND	FINISHED BASEMENT
22	GILBERT ROAD	1986	Yes	No	Yes	GROUND	
22	GILBERT ROAD	2008	Yes	N	N		
27	GILBERT ROAD	1985	Yes	No	No		
27	GILBERT ROAD	2008	Yes	No			
28	GILBERT ROAD	1985	Yes	No	No		



28	GILBERT ROAD	2008	No					
33	GILBERT ROAD	1986	Yes	No	No			
33	GILBERT ROAD	2008	No	110	140			
34	GILBERT ROAD	1985	Yes	No	No			
34	GILBERT ROAD	2008	Yes	No	140			
41	GILBERT ROAD	2008	Yes	No				
42	GILBERT ROAD	1989	Yes	No	No			
42	GILBERT ROAD	2008	Yes	Yes	Yes	1	YARD	
45	GILBERT ROAD	1986	Yes	No	Yes	_	SEWER	
45	GILBERT ROAD	2008	No				92 W 2	
50	GILBERT ROAD	1985	Yes	No	No			
50	GILBERT ROAD	2008	Yes					
51	GILBERT ROAD	1986	Yes	No	No			
51	GILBERT ROAD	2008	Yes	Yes	Yes	1	YARD	
56	GILBERT ROAD	1985	Yes	Yes	No	_	.,,,,,	
56	GILBERT ROAD	2008	No	1 55				
59	GILBERT ROAD	1985	Yes	No	No			
59	GILBERT ROAD	2008	Yes	No				
62	GILBERT ROAD	1985	Yes	No	No			
62	GILBERT ROAD	2008	Yes					
19	GLEN GARY ROAD	1987	Yes	No	No			
20	GLEN GARY ROAD	1987	Yes	No	No			
10/12	GLEN GARY ROAD	1987	No					
19	GLENDALE ROAD	1988	Yes	No	No			
20	GLENDALE ROAD	1986	Yes	No	No			
22	GLENDALE ROAD	1988	Yes	No	No			
31	GLENDALE ROAD	1986	Yes	No	No			
38	GLENDALE ROAD	1986	Yes	No	No			
43	GLENDALE ROAD	1986	Yes	No	No			
44	GLENDALE ROAD	1986	Yes	No	No			
51	GLENDALE ROAD	1988	Yes	No	No			
54	GLENDALE ROAD	1988	Yes	Yes	Yes		SINK	
84	GLENDALE ROAD	1988	No					
96	GLENDALE ROAD	1988	No					
25	GLENOON ROAD	1987	Yes	No	No			
26	GLENOON ROAD	1987	Yes	No	No			
34	GLENOON ROAD	1988	Yes	No	No			
35	GLENOON ROAD	2008	No					
43	GLENOON ROAD	1987	Yes	No	No			
6	GLENWOOD ROAD	1987	Yes	No	No			
11	GLENWOOD ROAD	1987	Yes	No	No			
12	GLENWOOD ROAD	1988	No					
18	GLENWOOD ROAD	1987	Yes	No	No			
19	GLENWOOD ROAD	1988	Yes	No	No			



11	GLOVER ROAD	1986	Yes	No	No		
17	GLOVER ROAD	1988	Yes	No	No		
20	GLOVER ROAD	1988	Yes	No	No		CLEANOUT UNDER STAIRS
23	GLOVER ROAD	1988	Yes	No	No		
30	GLOVER ROAD	1988	Yes	No	No		
31	GLOVER ROAD	1986	Yes	No	No		
37	GLOVER ROAD	1988	Yes	No	No		
43	GLOVER ROAD	1986	Yes	No	No		
51	GLOVER ROAD	1988	Yes	No	No		
54	GLOVER ROAD	1988	Yes	No	No		
55	GLOVER ROAD	1988	Yes	No	No		
11	GORDON ROAD	1988	Yes	No	No		
14	GORDON ROAD	1988	No	INO	IVO		
18	GORDON ROAD	1986	Yes	No	No		
19	GORDON ROAD	1986	Yes	No	No		
23	GORDON ROAD	1988	Yes	No	No		
26	GORDON ROAD	1988	Yes	No	No		
31	GORDON ROAD	1988	No	INU	NO		
32	GORDON ROAD	1988	Yes	No	No		
3	GOULD ROAD	1988	Yes	No	No		
<u>5</u> 11	GOULD ROAD	1988	Yes	No	No		
14	GOULD ROAD GOULD ROAD	1988			No		
17			Yes	No			
	GOULD ROAD	1986	Yes	No	No		
23	GOULD ROAD	1986	Yes	No	No		
26	GOULD ROAD	1986	Yes	No	No		
32	GOULD ROAD	1988	Yes	No	No		
33	GOULD ROAD	1988	Yes	No	No		
107/109	GOULD ROAD	1988	Yes	No	No		
115/117	GOULD ROAD	1988	No				
123/125	GOULD ROAD	1986	No				
129/131	GOULD ROAD	1986	Yes	No	No		
135/137	GOULD ROAD	1988	Yes	No	No		
141/143	GOULD ROAD	1988	Yes	No	No		
149/151	GOULD ROAD	1988	Yes	No	No		
99/101	GOULD ROAD	1986	Yes	No	No		
9	GRANT STREET	1991	No				
11	GRANT STREET	1991	No				
17	GRANT STREET	1986	Yes	No	No		
22	GRANT STREET	1989	Yes	No	No		
28	GRANT STREET	1989	Yes	No	No		
39	GRANT STREET	1985	Yes	No	No		
40	GRANT STREET	1986	Yes	No	No		
45	GRANT STREET	1986	Yes	No	No		
55	GRANT STREET	1986	Yes	No	No		



56	GRANT STREET	1985	Yes	No	No		
58	GRANT STREET	1985	Yes	No	No		
61	GRANT STREET	1985	Yes	No	No		
62	GRANT STREET	1986	Yes	No	No		
65	GRANT STREET	1985	Yes	No	No		
66	GRANT STREET	1986	Yes	No	No		
70	GRANT STREET	1991	No				
80	GRANT STREET	1986	Yes	No	No		
81	GRANT STREET	1986	Yes	No	No		
92	GRANT STREET	1986	Yes	No	Yes	GROUND	
96	GRANT STREET	1986	Yes	No	No		
102	GRANT STREET	1985	Yes	No	No		SEWER CAP OPEN
103	GRANT STREET	1986	Yes	No	No		
108	GRANT STREET	1991	No				
109	GRANT STREET	1986	Yes	No	Yes		
114	GRANT STREET	1985	Yes	No	No		
115	GRANT STREET	1985	Yes	No	Yes	GROUND	
121	GRANT STREET	1985	Yes	No	No		
122	GRANT STREET	1989	Yes	No	Yes	GROUND	
127	GRANT STREET	1986	Yes	No	Yes	GROUND	
128	GRANT STREET	1985	Yes	No	No		
133	GRANT STREET	1986	Yes	No	No		
134	GRANT STREET	1986	Yes	Yes	Yes	GROUND	
139	GRANT STREET	1985	Yes	No	No		
140	GRANT STREET	1985	Yes	No	No		
145	GRANT STREET	1985	Yes	No	No		
148	GRANT STREET	1986	Yes	No	No		
153	GRANT STREET	1986	Yes	Yes	No		
154	GRANT STREET		Yes	No	No		
10/12	GRANT STREET	1985	Yes	No	No		
13/15	GRANT STREET	1985	Yes	No	No		
16/18	GRANT STREET	1985	Yes	No	No		
69/71	GRANT STREET	1986	Yes	No	No		
5	GRASMERE ROAD	1988	No				
8	GRASMERE ROAD	1988	Yes	No	No		
15	GRASMERE ROAD	1988	Yes	No	No		
22	GRASMERE ROAD	1986	Yes	No	Yes	PLUMBING	
23	GRASMERE ROAD	1988	Yes	No	Yes	SINK	
30	GRASMERE ROAD	1988	Yes	No	No		
42	GRASMERE ROAD	1986	Yes	No	No		
50	GRASMERE ROAD	1988	Yes	No	No		
57	GRASMERE ROAD	1986	Yes	No	No		
10	GREAT PLAIN AVE	1986	Yes	No	No		
26	GREAT PLAIN AVE	1986	No			 	1



415	GREAT PLAIN AVE	1986	Yes	No	No		
425	GREAT PLAIN AVE	1986	Yes	No	No		
437	GREAT PLAIN AVE	1988	Yes	No	No		
443	GREAT PLAIN AVE	1988	Yes	No	No		BACKWATER VALVE
447	GREAT PLAIN AVE	1988	No				37.6
473	GREAT PLAIN AVE	1986	Yes	No	No		
481	GREAT PLAIN AVE	1988	Yes	No	No		
483	GREAT PLAIN AVE	1988	Yes	No	No		
491	GREAT PLAIN AVE	1988	Yes	No	No		
503	GREAT PLAIN AVE	1988	Yes	No	No		
505	GREAT PLAIN AVE	1988	No				
508	GREAT PLAIN AVE	1988	Yes	No	No		
515	GREAT PLAIN AVE	1986	Yes	No	No		
518	GREAT PLAIN AVE	1988	Yes	No	No		
523	GREAT PLAIN AVE	1986	No		1		
524	GREAT PLAIN AVE	1986	No				NO SEWER
528	GREAT PLAIN AVE	1988	Yes	No	No		
534	GREAT PLAIN AVE	1988	No				
535	GREAT PLAIN AVE	1986	Yes	No	No		
538	GREAT PLAIN AVE	1986	Yes	No	No		
544	GREAT PLAIN AVE	1986	No				NO SEWER
550	GREAT PLAIN AVE	1988	No				
553	GREAT PLAIN AVE	1986	No				
561	GREAT PLAIN AVE	1986	Yes	No	No		
566	GREAT PLAIN AVE	1988	Yes	No	No		
575	GREAT PLAIN AVE	1986	Yes	No	No		
586	GREAT PLAIN AVE	1986	Yes	No	No		
605	GREAT PLAIN AVE	1986	Yes	No	No		
613	GREAT PLAIN AVE	1986	Yes	No	No		
616	GREAT PLAIN AVE	1986	Yes	No	No		
619	GREAT PLAIN AVE	1988	Yes	No	No		
631	GREAT PLAIN AVE	1986	Yes	No	No		
632	GREAT PLAIN AVE	1986	Yes	No	No		
639	GREAT PLAIN AVE	1986	Yes	No	No		
640	GREAT PLAIN AVE	1988	Yes	No	No		
645	GREAT PLAIN AVE	1988	Yes	No	No		
652	GREAT PLAIN AVE	1988	Yes	Yes	No		
659	GREAT PLAIN AVE	1988	No				
664	GREAT PLAIN AVE	1988	Yes	No	No		
665	GREAT PLAIN AVE		Yes	No	No		
671	GREAT PLAIN AVE	1986	Yes	No	No		
679	GREAT PLAIN AVE	1988	Yes	No	No		
682	GREAT PLAIN AVE	1988	Yes	No	No		
683	GREAT PLAIN AVE	1988	No				



688 689 692	GREAT PLAIN AVE GREAT PLAIN AVE	1986	Yes	No	No		
692	OTTE TO THE TOTAL	1986	Yes	No	No		
	GREAT PLAIN AVE	1988	Yes	No	No		
706	GREAT PLAIN AVE	1986	Yes	No	No		
711	GREAT PLAIN AVE	1988	Yes	No	No		
749	GREAT PLAIN AVE	1988	Yes	No	No		
750	GREAT PLAIN AVE	1986	Yes	No	No		
755	GREAT PLAIN AVE	1985	No	110	110		
758	GREAT PLAIN AVE	1988	No				
763	GREAT PLAIN AVE	1988	Yes	No	No		
764	GREAT PLAIN AVE	1988	No				
766	GREAT PLAIN AVE	1986	Yes	No	No		
770	GREAT PLAIN AVE	1986	Yes	No	No		
772	GREAT PLAIN AVE	1988	No	110	140		
773	GREAT PLAIN AVE	1988	No				
781	GREAT PLAIN AVE	1988	Yes	No	No		
1141	GREAT PLAIN AVE	1988	No	110	140		
1147	GREAT PLAIN AVE	1987	Yes	No	No		
1159	GREAT PLAIN AVE	1988	Yes	No	No		
1167	GREAT PLAIN AVE	1988	No	110	140		
1175	GREAT PLAIN AVE	1987	Yes	No	No		
1186	GREAT PLAIN AVE	1987	Yes	No	No		
1189	GREAT PLAIN AVE	1988	Yes	No	No		
1194	GREAT PLAIN AVE	1987	Yes	No	No		
1197	GREAT PLAIN AVE	1988	Yes	No	No		
1200	GREAT PLAIN AVE	1987	Yes	No	No		
1206	GREAT PLAIN AVE	1987	Yes	No	No		
1207	GREAT PLAIN AVE	1987	Yes	No	No		
1214	GREAT PLAIN AVE	1988	Yes	No	No		
1214	GREAT PLAIN AVE	2008	Yes	110	110		
1217	GREAT PLAIN AVE	1988	Yes	No	No		
1218	GREAT PLAIN AVE	1987	Yes	No	No		
1218	GREAT PLAIN AVE	2008	Yes	No	110		
1227	GREAT PLAIN AVE	1988	Yes	No	No		
1233	GREAT PLAIN AVE	1988	No				
1236	GREAT PLAIN AVE	1987	Yes	Yes	No		
1242	GREAT PLAIN AVE	1988	No				
1248	GREAT PLAIN AVE	1988	No				
1249	GREAT PLAIN AVE	1987	Yes	No	No		
1253	GREAT PLAIN AVE	1987	Yes	No	No		
1259	GREAT PLAIN AVE	1988	Yes	No	No		
1262	GREAT PLAIN AVE	1988	Yes	No	No		
1265	GREAT PLAIN AVE	1987	Yes	No	No		
1270	GREAT PLAIN AVE	1988	Yes	No	No		



1274	GREAT PLAIN AVE	1988	No		No		
1281	GREAT PLAIN AVE	1988	Yes	No	No		
1289	GREAT PLAIN AVE	1987	Yes	No	No		
1290	GREAT PLAIN AVE	1988	Yes	Yes	Yes	GROUND	
1296	GREAT PLAIN AVE	1988	Yes	Yes	Yes	SEWER	
1297	GREAT PLAIN AVE	1987	Yes	No	No		
1306	GREAT PLAIN AVE	1987	Yes	Yes	Yes	GROUND	
1307	GREAT PLAIN AVE	1988	No				
1312	GREAT PLAIN AVE	1988	No				
1313	GREAT PLAIN AVE	1987	Yes	No	No		
1318	GREAT PLAIN AVE	1986	Yes	No	No		
1321	GREAT PLAIN AVE	1988	No				
1327	GREAT PLAIN AVE	1987	Yes	No	No		
1328	GREAT PLAIN AVE	1988	No				
1333	GREAT PLAIN AVE	1987	Yes	No	No		
1336	GREAT PLAIN AVE	1987	Yes	No	No		
1339	GREAT PLAIN AVE	1988	No				
1347	GREAT PLAIN AVE	1988	Yes	No	No		
1351	GREAT PLAIN AVE	1987	No				
1357	GREAT PLAIN AVE	1987	No				
1360	GREAT PLAIN AVE	1987	Yes	Yes	Yes	GROUND	
1365	GREAT PLAIN AVE	1987	Yes	No	No		
1370	GREAT PLAIN AVE	1987	Yes	Yes	Yes	GROUND	
1375	GREAT PLAIN AVE	1988	Yes	No	No		
1376	GREAT PLAIN AVE	1987	Yes	No	No		
1381	GREAT PLAIN AVE	1987	Yes	No	No		
1386	GREAT PLAIN AVE	1987	Yes	No	No		
1389	GREAT PLAIN AVE	1989	No				
1394	GREAT PLAIN AVE	1989	No				
1397	GREAT PLAIN AVE	1988	Yes	No	No		
1403	GREAT PLAIN AVE	1986	Yes	No	No		
1404	GREAT PLAIN AVE	1986	Yes	Yes	Yes	GROUND	
1409	GREAT PLAIN AVE	1986	Yes	No	No		
1426	GREAT PLAIN AVE	1986	Yes	No	Yes	SEWER	
1427	GREAT PLAIN AVE	1986	Yes	No	No		
1439	GREAT PLAIN AVE	1989	Yes	No	No		
1453	GREAT PLAIN AVE	1986	Yes	No	No		
1458	GREAT PLAIN AVE	1986	Yes	Yes	Yes	GROUND	
1461	GREAT PLAIN AVE	1989	Yes	No	No		
1471	GREAT PLAIN AVE	1986	No				
1472	GREAT PLAIN AVE	1986	Yes	No	No		
1473	GREAT PLAIN AVE	1986	Yes	Yes	Yes	GROUND	
1476	GREAT PLAIN AVE	1986	Yes	No	No		
1479	GREAT PLAIN AVE	1986	Yes	No	No		



1480	GREAT PLAIN AVE	1986	Yes	No	No		
1489	GREAT PLAIN AVE	1986	Yes	No	No		
1490	GREAT PLAIN AVE	1986	Yes	No	No		CLEANOUT OUTSIDE HOUSE IN BACK
1499	GREAT PLAIN AVE	1986	Yes	No	No		
1500	GREAT PLAIN AVE	1986	Yes	No	No		
1508	GREAT PLAIN AVE	1986	Yes	No	No		
1514	GREAT PLAIN AVE	1986	Yes	No	No		
1515	GREAT PLAIN AVE	1986	Yes	No	No		
1519	GREAT PLAIN AVE	1989	Yes	No	No		
1522	GREAT PLAIN AVE	1986	Yes	No	No		
1525	GREAT PLAIN AVE	1986	Yes	No	No		
1532	GREAT PLAIN AVE	1986	Yes	No	No		
1541	GREAT PLAIN AVE	1986	Yes	No	No		
1546	GREAT PLAIN AVE	1989	Yes	No	No		
1547	GREAT PLAIN AVE	1989	Yes	No	No		
1548	GREAT PLAIN AVE	1986	Yes	Yes	Yes	GROUND	
1552	GREAT PLAIN AVE	1986	Yes	No	No		
1555	GREAT PLAIN AVE	1986	Yes	No	No		
1560	GREAT PLAIN AVE	1986	Yes	No	No		
1561	GREAT PLAIN AVE	1986	Yes	No	No		
1566	GREAT PLAIN AVE	1986	Yes	No	Yes	GROUND	
1567	GREAT PLAIN AVE	1986	Yes	No	No		
1573	GREAT PLAIN AVE	1986	Yes	No	No		
1579	GREAT PLAIN AVE	1986	Yes	No	No		
1584	GREAT PLAIN AVE	1986	Yes	No	No		
1585	GREAT PLAIN AVE	1989	Yes	No	No		CLEANOUT NOT VISIBLE
1593	GREAT PLAIN AVE	1989	No				
1594	GREAT PLAIN AVE	1986	Yes	No	No		
1600	GREAT PLAIN AVE	1986	Yes	No	No		
1605	GREAT PLAIN AVE	1986	Yes	No	No		
1606	GREAT PLAIN AVE	1986	Yes	No	No		
1616	GREAT PLAIN AVE	1986	Yes	No	Yes	GROUND	
1617	GREAT PLAIN AVE	1986	Yes	No	No		
1622	GREAT PLAIN AVE	1986	Yes	No	No		
1625	GREAT PLAIN AVE	1986	Yes	No	No		
1636	GREAT PLAIN AVE	1986	Yes	No	No		
1637	GREAT PLAIN AVE	1986	Yes	No	No		
1646	GREAT PLAIN AVE	1986	Yes	No	No		
1649	GREAT PLAIN AVE	1986	Yes	No	No		
1658	GREAT PLAIN AVE	1986	Yes	No	No		
1659	GREAT PLAIN AVE	1986	Yes	No	No		
1665	GREAT PLAIN AVE	1986	Yes	No	No		
1675	GREAT PLAIN AVE	1986	Yes	No	No		



1687	GREAT PLAIN AVE	1986	Yes	No	No			
1693	GREAT PLAIN AVE	1986	Yes	No	No			
1699	GREAT PLAIN AVE	1986	Yes	No	No			
1700	GREAT PLAIN AVE	1986	Yes	No	No			
1707	GREAT PLAIN AVE	1986	Yes	No	No			
1725	GREAT PLAIN AVE	1986	Yes	No	No			
1766	GREAT PLAIN AVE	1986	Yes	No	No			CLEANOUT NOT VISIBLE
1794	GREAT PLAIN AVE	1986	Yes	No	No			CELANOOT NOT VISIBLE
1280/1282	GREAT PLAIN AVE	1987	Yes	No	No			
1410/1412	GREAT PLAIN AVE	1986	Yes	No	No			
20/22	GREAT PLAIN AVE	1986	Yes	No	No			
97		1988					CENTER	
	GREEN PLAIN AVE		Yes	No	Yes		SEWER	
125	GREEN PLAIN AVE	1987	Yes	No	No			
135	GREEN PLAIN AVE	1988	Yes	No	No			
146	GREEN PLAIN AVE	1986	Yes	No	No			
151	GREEN PLAIN AVE	1986	Yes	No	No			
152	GREEN PLAIN AVE	1986	Yes	No	No			
155	GREEN PLAIN AVE	1986	No					
160	GREEN PLAIN AVE	1986	Yes	No	No			
170	GREEN PLAIN AVE	1986	Yes	No	No			
171	GREEN PLAIN AVE	1986	Yes	No	Yes			
177	GREEN PLAIN AVE	1986	Yes	No	No			
190	GREEN PLAIN AVE	1988	Yes	No	Yes			
197	GREEN PLAIN AVE	1986	Yes	No	No			
199	GREEN PLAIN AVE	1986	Yes	No	No			
200	GREEN PLAIN AVE	1986	Yes	No	No			
206	GREEN PLAIN AVE	1988	Yes	No	No			
207	GREEN PLAIN AVE	1986	No					
212	GREEN PLAIN AVE	1986	Yes	No	No			
213	GREEN PLAIN AVE	1986	No					
220	GREEN PLAIN AVE	1988	Yes	No	No			
221	GREEN PLAIN AVE	1986	No					
226	GREEN PLAIN AVE	1988	No					
232	GREEN PLAIN AVE	1986	Yes	No	No			
233	GREEN PLAIN AVE	1986	Yes	No	No			
238	GREEN PLAIN AVE	1986	Yes	No	No			
239	GREEN PLAIN AVE	1986	Yes	No	No			
243	GREEN PLAIN AVE	1986	Yes	No	No			
244	GREEN PLAIN AVE	1986	Yes	No	No			
250	GREEN PLAIN AVE	1986	Yes	No	No			
251	GREEN PLAIN AVE	1986	No					
256	GREEN PLAIN AVE	1988	Yes	No	No			
16	GREEN STREET	1988	Yes	Yes	Yes		GROUND	
22	GREEN STREET	1989	Yes	Yes	Yes		GROUND	
	•					1		



25 GREEN STREET 1986 Yes No No No	NOUT NOT VISIBLE
SO GREEN STREET 1989 Yes No No No So So So So So	NOUT NOT VISIBLE
S6	NOUT NOT VISIBLE
62 GREEN STREET 1988 Yes No No 67 GREEN STREET 1989 Yes No No 68 GREEN STREET 1986 Yes No No 72 GREEN STREET 1988 Yes No No No 78 GREEN STREET 1989 Yes No No No 79 GREEN STREET 1986 Yes No No No 89 GREEN STREET 1989 Yes No No No 90 GREEN STREET 1989 No No No No 97 GREEN STREET 1989 No No No No 105 GREEN STREET 1989 No No No No 119 GREEN STREET 1986 Yes No No No 124 GREEN STREET 1989 Yes No No No 4	NOUT NOT VISIBLE
GREEN STREET 1989 Yes No No No No No No No N	NOUT NOT VISIBLE
68 GREEN STREET 1986 Yes No No 72 GREEN STREET 1988 Yes No No No 78 GREEN STREET 1989 Yes No No No 79 GREEN STREET 1986 Yes No No No 89 GREEN STREET 1989 Yes No No No 90 GREEN STREET 1989 No No No No 97 GREEN STREET 1989 No No No No 105 GREEN STREET 1989 No No No No 114 GREEN STREET 1986 Yes No No No 119 GREEN STREET 1989 Yes No No No 124 GREEN STREET 1988 Yes No No No 4 GREEN STREET 1988 Yes No No No	NOUT NOT VISIBLE
72 GREEN STREET 1988 Yes No No CLEAR 78 GREEN STREET 1989 Yes No No No 79 GREEN STREET 1986 Yes No No No 89 GREEN STREET 1989 Yes No No No 90 GREEN STREET 1989 No To	NOUT NOT VISIBLE
78 GREEN STREET 1989 Yes No No 79 GREEN STREET 1986 Yes No No 89 GREEN STREET 1989 Yes No No 90 GREEN STREET 1989 No 97 GREEN STREET 1989 No 105 GREEN STREET 1989 No 114 GREEN STREET 1986 Yes No No 119 GREEN STREET 1989 Yes No No 124 GREEN STREET 1988 Yes No No 4 GREEN DALE AVE 1986 Yes No No 12 GREENDALE AVE 1986 Yes No No 20 GREENDALE AVE 1986 Yes No No 25 GREENDALE AVE 1985 Yes No No 28 GREENDALE AVE 1986 Yes No <td>NOUT NOT VISIBLE</td>	NOUT NOT VISIBLE
79 GREEN STREET 1986 Yes No No 89 GREEN STREET 1989 Yes No No 90 GREEN STREET 1989 No 97 GREEN STREET 1989 No 105 GREEN STREET 1989 No 114 GREEN STREET 1986 Yes No No 119 GREEN STREET 1989 Yes No No No 124 GREEN STREET 1988 Yes No No No 4 GREEN DALE AVE 1986 Yes No No No 12 GREENDALE AVE 1986 Yes No No No 20 GREENDALE AVE 1986 Yes No No No 25 GREENDALE AVE 1985 Yes No No No 28 GREENDALE AVE 1986 Yes No No <	
89 GREEN STREET 1989 Yes No No 90 GREEN STREET 1989 No 97 GREEN STREET 1989 No 105 GREEN STREET 1989 No 114 GREEN STREET 1986 Yes No No 119 GREEN STREET 1989 Yes No No 124 GREEN STREET 1988 Yes No No 4 GREEN DALE AVE 1986 Yes No No 12 GREENDALE AVE 1986 Yes No No 20 GREENDALE AVE 1986 Yes No No 25 GREENDALE AVE 1985 Yes No No 28 GREENDALE AVE 1986 Yes No No	
90 GREEN STREET 1989 No 97 GREEN STREET 1989 No 105 GREEN STREET 1989 No 114 GREEN STREET 1986 Yes No 119 GREEN STREET 1989 Yes No No 124 GREEN STREET 1988 Yes No No 4 GREENDALE AVE 1986 Yes No No 12 GREENDALE AVE 1986 Yes No No 20 GREENDALE AVE 1986 Yes No No 25 GREENDALE AVE 1985 Yes No No 28 GREENDALE AVE 1986 Yes No No	
97 GREEN STREET 1989 No 105 GREEN STREET 1989 No 114 GREEN STREET 1986 Yes No No 119 GREEN STREET 1989 Yes No No 124 GREEN STREET 1988 Yes No No 4 GREENDALE AVE 1986 Yes No No 12 GREENDALE AVE 1986 Yes No No 20 GREENDALE AVE 1986 Yes No No 25 GREENDALE AVE 1985 Yes No No 28 GREENDALE AVE 1986 Yes No No	
105 GREEN STREET 1989 No No	
114 GREEN STREET 1986 Yes No No No 119 GREEN STREET 1989 Yes No No No 124 GREEN STREET 1988 Yes No No No 4 GREENDALE AVE 1986 Yes No No No 12 GREENDALE AVE 1986 Yes No No No 20 GREENDALE AVE 1986 Yes No No No 25 GREENDALE AVE 1985 Yes No No No 28 GREENDALE AVE 1986 Yes No No No	
119 GREEN STREET 1989 Yes No No	
124 GREEN STREET 1988 Yes No No	
4 GREENDALE AVE 1986 Yes No No 12 GREENDALE AVE 1986 Yes No No 20 GREENDALE AVE 1986 Yes No No 25 GREENDALE AVE 1985 Yes No No 28 GREENDALE AVE 1986 Yes No No	
12 GREENDALE AVE 1986 Yes No No 20 GREENDALE AVE 1986 Yes No No 25 GREENDALE AVE 1985 Yes No No 28 GREENDALE AVE 1986 Yes No No	
20 GREENDALE AVE 1986 Yes No No 25 GREENDALE AVE 1985 Yes No No 28 GREENDALE AVE 1986 Yes No No	
25 GREENDALE AVE 1985 Yes No No 28 GREENDALE AVE 1986 Yes No No	
28 GREENDALE AVE 1986 Yes No No	
31 GREENDALE AVE 1985 Yes No No	
36 GREENDALE AVE 1985 Yes No No	
39 GREENDALE AVE 1985 Yes No No	
45 GREENDALE AVE 1986 Yes No No	
46 GREENDALE AVE 1989 No	
47 GREENDALE AVE Yes No No	
51 GREENDALE AVE 1985 Yes No No	
52 GREENDALE AVE 1990 Yes No No	
60 GREENDALE AVE 1989 No	
61 GREENDALE AVE 1989 No	
67 GREENDALE AVE 1985 Yes No No	
70 GREENDALE AVE 1989 No	
75 GREENDALE AVE 1985 Yes No No	
76 GREENDALE AVE 1985 Yes No No	
80 GREENDALE AVE 1986 Yes No No	
81 GREENDALE AVE 1986 Yes No No	
87 GREENDALE AVE 1989 No	
96 GREENDALE AVE 1985 Yes Yes No	
100 GREENDALE AVE 1985 Yes No No	
107 GREENDALE AVE 1985 Yes No No	
144 GREENDALE AVE 1989 Yes No No	
151 GREENDALE AVE 1989 Yes No No	



155	GREENDALE AVE	1989	No				
156	GREENDALE AVE	1989	No				
161	GREENDALE AVE	1989	Yes	No	No		
175	GREENDALE AVE	1989	Yes	No	Yes	GROUND	
183	GREENDALE AVE	1989	Yes	Yes	Yes	GROUND	
192	GREENDALE AVE	1987	Yes	No	No	0.100112	CAP HIDDEN
193	GREENDALE AVE	1989	No				
196	GREENDALE AVE	1989	Yes	No	No		
205	GREENDALE AVE	1989	No				
216	GREENDALE AVE	1987	Yes	No	No		
221	GREENDALE AVE	1987	Yes	No	No		
224	GREENDALE AVE	1989	Yes	No	No		
227	GREENDALE AVE	1987	Yes	No	No		
233	GREENDALE AVE	1989	No	-			
241	GREENDALE AVE	1987	Yes	No	No		
247	GREENDALE AVE	1987	Yes	Yes	Yes		
248	GREENDALE AVE	1987	Yes	No	No		
258	GREENDALE AVE	1989	Yes	No	No		
259	GREENDALE AVE	1987	Yes	No	No		
264	GREENDALE AVE	1989	No				
265	GREENDALE AVE	1987	Yes	No	No		
272	GREENDALE AVE	1987	Yes	No	No		
273	GREENDALE AVE	1989	Yes	No	No		
280	GREENDALE AVE	1987	No				
281	GREENDALE AVE	1989	No				
286	GREENDALE AVE	1989	Yes	No	No		
287	GREENDALE AVE	1989	Yes	No	No		
300	GREENDALE AVE	1989	No				
309	GREENDALE AVE	1987	Yes	No	No		
312	GREENDALE AVE	1987	Yes	No	No		
313	GREENDALE AVE	1989	Yes	No	No		
318	GREENDALE AVE	1989	No				
324	GREENDALE AVE	1989	Yes	No	No		
337	GREENDALE AVE	1989	Yes	No	No		
343	GREENDALE AVE	1987	Yes	No	No		
351	GREENDALE AVE	1987	No				
357	GREENDALE AVE	1989	No				
361	GREENDALE AVE	1989	Yes	No	No		
409	GREENDALE AVE	1989	No				
415	GREENDALE AVE	1989	Yes	No	No		
421	GREENDALE AVE	1989	Yes	No	No		
439	GREENDALE AVE	1987	Yes	No	No		
445	GREENDALE AVE	1989	No				
453	GREENDALE AVE	1987	No				



455	GREENDALE AVE	1989	No				
471	GREENDALE AVE	1989	Yes	No	Yes	PLUMBING	
497	GREENDALE AVE	1987	Yes	No	No	. 2011.50	
501	GREENDALE AVE	1987	No				
523	GREENDALE AVE	1989	Yes	No	No		
529	GREENDALE AVE	1987	Yes	No	No		
535	GREENDALE AVE	1989	Yes	No	No		
571	GREENDALE AVE	1989	Yes	No	No		
587	GREENDALE AVE	1987	Yes	No	No		
595	GREENDALE AVE	1989	Yes	No	No		
611	GREENDALE AVE	1989	No	-			
617	GREENDALE AVE	1987	Yes	No	No		
623	GREENDALE AVE	1986	Yes	Yes	Yes	PLUMBING	
623	GREENDALE AVE	1989	No				
631	GREENDALE AVE	1989	Yes	No	No		
655	GREENDALE AVE	1987	Yes	No	No		
663	GREENDALE AVE	1989	No		No		
664	GREENDALE AVE	1989	Yes	No	No		
664	GREENDALE AVE	1989	No				
687	GREENDALE AVE	1989	No				
693	GREENDALE AVE	1987	No				
701	GREENDALE AVE	1987	Yes	No	No		
707	GREENDALE AVE	1987	Yes	No	No		
715	GREENDALE AVE	1987	Yes	No	No		
721	GREENDALE AVE	1989	No				
741	GREENDALE AVE	1987	Yes	No	No		
744	GREENDALE AVE	1989	No				
749	GREENDALE AVE	1988	Yes	No	Yes	GROUND	
761	GREENDALE AVE	1988	Yes	No	No		
767	GREENDALE AVE	1982	Yes	No	No		
773	GREENDALE AVE	1988	Yes	No	No		
778	GREENDALE AVE	1987	Yes	No	No		
786	GREENDALE AVE	1988	Yes	No	No		
787	GREENDALE AVE	1988	Yes	No	No		
794	GREENDALE AVE	1988	Yes	No	No		
802	GREENDALE AVE	1988	No				
810	GREENDALE AVE	1987	Yes	No	No		
811	GREENDALE AVE	1987	Yes	No	No		
817	GREENDALE AVE	1987	Yes	No	No		
818	GREENDALE AVE	1987	Yes	No	No		
829	GREENDALE AVE	1987	Yes	No	No		
840	GREENDALE AVE	1987	Yes	No	No		
841	GREENDALE AVE	1987	Yes	No	No		
847	GREENDALE AVE	1988	No				



859	GREENDALE AVE	1988	Yes	No	No		
867	GREENDALE AVE	1988	Yes	No	No		
875	GREENDALE AVE	1988	No	140	110		
883	GREENDALE AVE	1988	Yes	No	No		
889	GREENDALE AVE	1987	No	140	110		
894	GREENDALE AVE	1988	No				
899	GREENDALE AVE	1988	No				
919	GREENDALE AVE	1987	Yes	Yes	Yes	GROUND	
934	GREENDALE AVE	1988	No	163	163	GNOOND	
961	GREENDALE AVE	1988	Yes	No	No		
966	GREENDALE AVE	1988	Yes	No	No		
969	GREENDALE AVE	1988	Yes	No	No		
979	GREENDALE AVE	1987	Yes	No	No		
982	GREENDALE AVE	1988	No	INO	INU		
988	GREENDALE AVE	1987	Yes	No	No		
989	GREENDALE AVE	1988	No	INO	INU		
991	GREENDALE AVE	1987	No				
991	GREENDALE AVE	1967	INO				
992	GREENDALE AVE	1987	Yes	No	No		OUTSIDE MANHOLE, CLEANOUT
993	GREENDALE AVE	1987	Yes	No	No		
1002	GREENDALE AVE	1988	Yes	No	No		
1006	GREENDALE AVE	1988	No				
1011	GREENDALE AVE	1988	No				
1012	GREENDALE AVE	1988	No				
1018	GREENDALE AVE	1988	Yes	No	No		
1019	GREENDALE AVE	1987	Yes	No	No		
1024	GREENDALE AVE	1988	Yes	No	No		
1025	GREENDALE AVE	1987	Yes	No	No		
1033	GREENDALE AVE	1988	Yes	No	No		
1038	GREENDALE AVE	1988	Yes	No	No		
1039	GREENDALE AVE	1988	Yes	No	No		
1045	GREENDALE AVE	1987	Yes	No	No		
1057	GREENDALE AVE	1988	No				
1062	GREENDALE AVE	1987	Yes	No	No		
1065	GREENDALE AVE	1988	Yes	No	No		
1077	GREENDALE AVE	1987	Yes	No	No		
1081	GREENDALE AVE	1987	Yes	No	No		
1082	GREENDALE AVE	1988	Yes	No	No		
1085	GREENDALE AVE	1987	Yes	No	No		
1090	GREENDALE AVE	1987	Yes	No	No		
1091	GREENDALE AVE	1981	Yes	No	No		
1098	GREENDALE AVE	1987	Yes	No	No		
1100	GREENDALE AVE	1988	Yes	No	No		
1106	GREENDALE AVE	1988	Yes	No	No		



1109	GREENDALE AVE	1988	Yes	No	No		
1112	GREENDALE AVE	1987	Yes	No	No		
4	GREENOUGH STREET	1988	Yes	No	No		
7	GREENOUGH STREET	1986	Yes	No	No		
7	GREENOUGH STREET	1986	Yes	No	No		
8	GREENOUGH STREET	1988	Yes	No	No		
11	GREENOUGH STREET	1988	Yes	No	No		
12	GREENOUGH STREET	1988	No				
21	GREENOUGH STREET	1988	No				
22	GREENOUGH STREET	1988	No				
26	GREENOUGH STREET	1988	Yes	No	No		
28	GREENOUGH STREET	1986	Yes	No	No		
29	GREENOUGH STREET	1988	No				
32	GREENOUGH STREET	1988	No				
35	GREENOUGH STREET	1988	Yes	No	No		
38	GREENOUGH STREET	1988	Yes	No	No		
39	GREENOUGH STREET	1986	Yes	No	No		
41	GREENOUGH STREET	1988	Yes	No	No		
42	GREENOUGH STREET	1988	Yes	No	No		
45	GREENOUGH STREET	1988	No				
46	GREENOUGH STREET	1988	Yes	No	No		
49	GREENOUGH STREET	1986	Yes	No	No		
50	GREENOUGH STREET	1988	No				
55	GREENOUGH STREET	1988	Yes	No	No		
58	GREENOUGH STREET	1986	No				
62	GREENOUGH STREET	1986	Yes	No	No		
66	GREENOUGH STREET	1988	No				
67	GREENOUGH STREET	1988	Yes	No	No		
73	GREENOUGH STREET	1986	Yes	Yes	No		
74	GREENOUGH STREET	1988	Yes	No	No		
3/5	GREENOUGH STREET	1986	No				
1	GREENWOOD AVE	1988	Yes	No	No		
16	GROSVENOR ROAD	1988	Yes	No	No		
17	GROSVENOR ROAD	1986	No				
22	GROSVENOR ROAD	1986	Yes	No	No		
34	GROSVENOR ROAD	1986	No				
37	GROSVENOR ROAD	1986	Yes	No	No		
40	GROSVENOR ROAD	1988	No				
44	GROSVENOR ROAD	1988	Yes	No	No		
45	GROSVENOR ROAD	1986	Yes	No	No		
50	GROSVENOR ROAD	1986	Yes	No	No		
63	GROSVENOR ROAD	1986	Yes	No	No		
64	GROSVENOR ROAD	1986	Yes	No	No		
70	GROSVENOR ROAD	1986	Yes	No	No		



71	GROSVENOR ROAD	1988	Yes	No	No		
76	GROSVENOR ROAD	1986	Yes	No	No		
85	GROSVENOR ROAD	1986	Yes	No	No		
86	GROSVENOR ROAD	1986	No				
91	GROSVENOR ROAD	1986	Yes	No	No		
98	GROSVENOR ROAD	1986	No				
101	GROSVENOR ROAD	1986	Yes	No	No		
107	GROSVENOR ROAD	1986	Yes	No	No		
111	GROSVENOR ROAD	1986	Yes	No	No		
117	GROSVENOR ROAD	1986	Yes	No	No		
118	GROSVENOR ROAD	1986	Yes	No	No		
122	GROSVENOR ROAD	1986	Yes	No	No		
127	GROSVENOR ROAD	1986	Yes	No	No		
130	GROSVENOR ROAD	1986	Yes	No	No		
136	GROSVENOR ROAD	1986	Yes	No	No		
9/11	GUILD ROAD	1986	No				
9/17	GUILD ROAD	1986	No				
10/12	GUILD ROAD	1986	Yes	No	No		
17/19	GUILD ROAD	1988	No				
20/22	GUILD ROAD	1986	Yes	No	No		
24/26	GUILD ROAD	1986	Yes	No	No		
25/27	GUILD ROAD	1988	No				
11	HAMILTON PLACE	1986	Yes	No	No		
17	HAMILTON PLACE	1986	Yes	No	No		
27	HAMILTON PLACE	1986	No				
33	HAMILTON PLACE	1988	Yes	No	No		
3	HAMPTON AVE	1986	Yes	No	No		
12	HAMPTON AVE	1988	Yes	No	No		
25	HAMPTON AVE	1988	No				
34	HAMPTON AVE	1988	No				
40	HAMPTON AVE	1986	Yes	No	No		
46	HAMPTON AVE	1988	Yes	No	No		
54	HAMPTON AVE	1988	Yes	No	No		
60	HAMPTON AVE	1988	No				
66	HAMPTON AVE	1988	No				
74	HAMPTON AVE	1988	Yes	No	No		
2	HANCOCK ROAD	1988	No				
6	HANCOCK ROAD	1987	Yes	Yes	Yes	PLUMBING	
7	HANCOCK ROAD	1988	Yes	Yes	Yes	PLUMBING	
14	HANCOCK ROAD	1987	Yes	No	Yes	GROUND	
15	HANCOCK ROAD	1988	Yes	Yes	Yes	GROUND	
25	HANCOCK ROAD	1987	Yes	No	No		
28	HANCOCK ROAD	1988	Yes	No	No		
33	HANCOCK ROAD	1988	Yes	No	No		



<u> </u>		Т	1	1	1	1	1	1
34	HANCOCK ROAD	1988	Yes	No	No			
41	HANCOCK ROAD	1987	Yes	No	No			
44	HANCOCK ROAD	1988	No					
49	HANCOCK ROAD	1988	No					
50	HANCOCK ROAD	1988	Yes	No	No			
55	HANCOCK ROAD	1988	Yes	No	No			
58	HANCOCK ROAD	1988	Yes	No	No			
58	HANCOCK ROAD	1994	No					DRIVEWAY DRAIN, ROOF LEADER
63	HANCOCK ROAD	1988	Yes	No	No			
64	HANCOCK ROAD	1988	No					
64	HANCOCK ROAD	1994	No					ROOF LEADER
68	HANCOCK ROAD	1987	Yes	No	No			
68	HANCOCK ROAD	1994	No					DRIVEWAY DRAIN
74	HANCOCK ROAD	1987	Yes	No	No			
77	HANCOCK ROAD	1988	Yes	No	No			
77	HANCOCK ROAD	1994	No					ROOF LEADER
80	HANCOCK ROAD	1988	No					
87	HANCOCK ROAD	1987	Yes	No	No			
98	HANCOCK ROAD	1987	Yes	No	No			
11	HARDING ROAD	1986	Yes	No	No			
11	HARDING ROAD	2008	No					
12	HARDING ROAD	1989	Yes	No	No			
12	HARDING ROAD	2008	Yes	No				
19	HARDING ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	
20	HARDING ROAD	1986	Yes	No	No			
20	HARDING ROAD	2008	Yes	No				
26	HARDING ROAD	1985	Yes	No	No			
26	HARDING ROAD	2008	Yes	No				
29	HARDING ROAD	1986	Yes	No	No			
29	HARDING ROAD	2008	Yes	Yes				
14	HARRIS AVE	1986	Yes	No	No			
15	HARRIS AVE	1988	No					
24	HARRIS AVE	1988	Yes	No	No			
27	HARRIS AVE	1988	Yes	No	No			
37	HARRIS AVE	1986	Yes	No	Yes		PLUMBING	
43	HARRIS AVE	1986	Yes	No	No			
44	HARRIS AVE	1988	Yes	No	No			
51	HARRIS AVE	1988	Yes	No	No			
66	HARRIS AVE	1988	Yes	No	No			
69	HARRIS AVE	1988	Yes	No	No			
78	HARRIS AVE	1988	Yes	No	No			
79	HARRIS AVE	1988	Yes	No	No			
84	HARRIS AVE	1984	No		1			



87	HARRIS AVE	1986	Yes	Yes	Yes	SINK	
94	HARRIS AVE	1988	Yes	No	No	SIIVK	
99	HARRIS AVE	1988	Yes	No	No		
100	HARRIS AVE	1986	Yes	No	No		
114	HARRIS AVE	1988	No	INO	INO		
114	HARRIS AVE	1986	Yes	No	Yes	SEWER	
122		1986			+	SEVVER	
	HARRIS AVE		Yes	No	No		
130 135	HARRIS AVE HARRIS AVE	1988 1988	Yes	No	No		
			No				
140	HARRIS AVE	1986	No	NI-	NI-		
148	HARRIS AVE	1988	Yes	No	No		
149	HARRIS AVE		Yes	No	No		
161	HARRIS AVE	1988	No				
168	HARRIS AVE	1988	No				
169	HARRIS AVE	1988	Yes	No	No		
179	HARRIS AVE	1986	No				
189	HARRIS AVE	1986	Yes	No	No		
195	HARRIS AVE	1986	Yes	No	No		
219	HARRIS AVE	1986	Yes	No	No		
234	HARRIS AVE	1988	No				
238	HARRIS AVE	1988	Yes	No	No		
243	HARRIS AVE	1986	Yes	No	No		
244	HARRIS AVE	1986	Yes	No	No		
248	HARRIS AVE	1988	No				
249	HARRIS AVE	1986	Yes	No	No		
260	HARRIS AVE	1988	Yes	No	No		
265	HARRIS AVE	1988	No				
268	HARRIS AVE	1986	Yes	No	No		
276	HARRIS AVE	1986	Yes	No	No		
277	HARRIS AVE	1988	No				
284	HARRIS AVE	1988	No				
290	HARRIS AVE	1986	Yes	No	No		
310	HARRIS AVE	1986	Yes	No	No		
315	HARRIS AVE	1988	Yes	No	No		
62/64	HARRIS AVE	1988	No				
5	HARVARD CIRCLE	1988	Yes	No	Yes	SINK	
11	HARVARD CIRCLE	1988	Yes	No	No		
12	HARVARD CIRCLE	1986	Yes	No	No		
17	HARVARD CIRCLE	1988	Yes	No	No		
20	HARVARD CIRCLE	1988	No				
23	HARVARD CIRCLE	1986	Yes	No	No		
26	HARVARD CIRCLE	1988	No				
30	HARVARD CIRCLE	1988	No				
9/11	HARVARD CIRCLE	1987	No				



17/19	HARVARD CIRCLE	1987	Yes	No	No		
20/22	HARVARD CIRCLE	1988	Yes	No	No		
23/25	HARVARD CIRCLE	1987	No	110	110		
26/28	HARVARD CIRCLE	1987	Yes	No	No		
29/31	HARVARD CIRCLE	1987	Yes	No	No		
32/34	HARVARD CIRCLE	1988	Yes	No	No		
4	HAWTHORNE AVE	1989	Yes	No	No		
15	HAWTHORNE AVE	1989	No				
16	HAWTHORNE AVE	1989	Yes	No	No		
21	HAWTHORNE AVE	1988	Yes	No	No		
22	HAWTHORNE AVE	1988	Yes	No	No		
25	HAWTHORNE AVE	1986	Yes	No	No		
26	HAWTHORNE AVE	1988	Yes	No	No		
29	HAWTHORNE AVE	1988	Yes	No	No		
32	HAWTHORNE AVE	1986	Yes	No	No		
35	HAWTHORNE AVE	1999	Yes	No	Yes	GROUND	
36	HAWTHORNE AVE	1986	Yes	Yes	Yes	SINK	
41	HAWTHORNE AVE	1989	Yes	No	No		
42	HAWTHORNE AVE	1988	Yes	No	No		
47	HAWTHORNE AVE	1988	Yes	No	No		
48	HAWTHORNE AVE	1988	Yes	Yes	Yes	SINK	
53	HAWTHORNE AVE	1988	Yes	No	No		
54	HAWTHORNE AVE	1986	Yes	Yes	Yes	GROUND	BACKWATER VALVE ON SEWER
57	HAWTHORNE AVE	1988	Yes	No	Yes		
58	HAWTHORNE AVE	1989	No				
63	HAWTHORNE AVE	1988	Yes	Yes	Yes	GROUND	
64	HAWTHORNE AVE	1988	Yes	Yes	Yes	SEWER	
67	HAWTHORNE AVE	1988	Yes	No	No		
77	HAWTHORNE AVE	1986	Yes	No	No		
78	HAWTHORNE AVE	1989	Yes	No	No		
83	HAWTHORNE AVE	1989	Yes	No	No		
86	HAWTHORNE AVE		Yes	Yes	Yes	FRONT	
89	HAWTHORNE AVE	1988	Yes	No	No		
93	HAWTHORNE AVE	1986	Yes	No	No		
94	HAWTHORNE AVE	1988	Yes	Yes	Yes	SINK	
98	HAWTHORNE AVE	1986	Yes	No	No		
99	HAWTHORNE AVE	1986	Yes	No	No		
104	HAWTHORNE AVE	1986	Yes	No	No		
105	HAWTHORNE AVE	1988	Yes	Yes	Yes	GROUND	
110	HAWTHORNE AVE	1988	Yes	No	No		
111	HAWTHORNE AVE	1988	Yes	No	No		
113	HAWTHORNE AVE	1988	No				
114	HAWTHORNE AVE	1986	Yes	No	No		



117	HAWTHORNE AVE	1989	No				
121	HAWTHORNE AVE	1986	Yes	No	No		
122	HAWTHORNE AVE	1989	No	110	110		
133	HAWTHORNE AVE	1989	Yes	No	No		
14	HAZEL LANE	1988	No	110	110		
15	HAZEL LANE	1987	Yes	No	No		
22	HAZEL LANE	1987	Yes	No	No		
27	HAZEL LANE	1988	No	7.0			
28	HAZEL LANE	1987	Yes	No	No		
34	HAZEL LANE	1988	Yes	No	No		
37	HAZEL LANE	1987	Yes	No	No		
40	HAZEL LANE	1988	No	-			
46	HAZEL LANE	1987	Yes	No	No		
52	HAZEL LANE	1987	Yes	No	No		
3	HAZELTON AVE	1986	Yes	No	No		
9	HAZELTON AVE	1986	Yes	No	No		
10	HAZELTON AVE	1986	Yes	Yes	No		CAP OFF
15	HAZELTON AVE	1988	Yes	No	No		
18	HAZELTON AVE	1989	No				
25	HAZELTON AVE	1989	Yes	No	No		
26	HAZELTON AVE	1988	Yes	Yes	No		
31	HAZELTON AVE	1988	Yes	No	No		
34	HAZELTON AVE	1988	Yes	No	No		
37	HAZELTON AVE	1986	Yes	No	No		
43	HAZELTON AVE	1986	Yes	No	No		
3	HELEN ROAD	1986	Yes	No	No		
8	HELEN ROAD	1989	No				
11	HELEN ROAD	1986	Yes	No	No		
16	HELEN ROAD	1988	Yes	No	No		
19	HELEN ROAD	1989	Yes	No	No		
25	HELEN ROAD	1988	Yes	No	No		
30	HELEN ROAD	1989	Yes	No	No		
31	HELEN ROAD	1986	Yes	No	Yes	GROUND	
37	HELEN ROAD	1986	Yes	No	Yes	GROUND	
38	HELEN ROAD	1989	No				
43	HELEN ROAD	1986	Yes	No	No		
53	HELEN ROAD	1986	Yes	No	No		
58	HELEN ROAD	1986	Yes	No	No		
64	HELEN ROAD	1986	Yes	No	No		
67	HELEN ROAD	1988	Yes	Yes	Yes	GROUND	
70	HELEN ROAD	1988	Yes	No	No		
74	HELEN ROAD	1988	Yes	No	No		
8	HEMLOCK STREET	1988	Yes	No	No		
9	HEMLOCK STREET	1986	Yes	No	No		



14	HEMLOCK STREET	1988	No					
15	HEMLOCK STREET	1988	Yes	No	Yes			
22	HEMLOCK STREET	1988	No	INO	163			+
28		1986	No					NO SEWED CONNECTED
34	HEMLOCK STREET			No	No			NO SEWER CONNECTED
35	HEMLOCK STREET	1988 1988	Yes No	No	No			+
41	HEMLOCK STREET			No	No			
	HEMLOCK STREET	1986	Yes	No	No			
43	HEMLOCK STREET	1988	No	NI-	NI-			
44 47	HEMLOCK STREET	1988	Yes	No No	No			
	HEMLOCK STREET	1986	Yes	No	No			
52	HEMLOCK STREET	1988	Yes	No	No			
53	HEMLOCK STREET	1988	Yes	No	No			
57	HEMLOCK STREET	1986	Yes	No	No			
63	HEMLOCK STREET	1988	No					
64	HEMLOCK STREET	1986	Yes	No	No			
10	HENDERSON STREET	1986	Yes	No	No			
10	HENDERSON STREET	2008	Yes					
16	HENDERSON STREET	1985	Yes	No	No			
16	HENDERSON STREET	2008	Yes	Yes	Yes	1	YARD	
17	HENDERSON STREET	1986	Yes	No	Yes		GROUND	
17	HENDERSON STREET	2008	Yes	Yes	Yes	1	DRIVEWAY	
23	HENDERSON STREET	1985	Yes	No	Yes			
23	HENDERSON STREET	2008	Yes	No				
32	HENDERSON STREET	1985	Yes	No	No			
32	HENDERSON STREET	2008	Yes	Yes	Yes	1	YARD	
33	HENDERSON STREET	1985	Yes	No	No			
33	HENDERSON STREET	2008	Yes	Yes	Yes	1	OWNER SAYS TO DRYWELL	
37	HENDERSON STREET	1986	Yes	No	No			
37	HENDERSON STREET	2008	Yes	Yes	Yes	1	YARD	
38	HENDERSON STREET	1985	Yes	No	No			
38	HENDERSON STREET	2008	No					
42	HENDERSON STREET	1986	Yes	No	No			
42	HENDERSON STREET	2008	Yes	No				
53	HENDERSON STREET	1986	Yes	No	No			
53	HENDERSON STREET	2008	Yes	No				
59	HENDERSON STREET	1985	Yes	No	No			
59	HENDERSON STREET	2008	Yes	Yes				NO SUMP PUMP, OWNERS WAIT FOR WATER TO EVAPORATE
62	HENDERSON STREET	1985	Yes	Yes	Yes			PUMP NOT CONNECTED
62	HENDERSON STREET	2008	No					
65	HENDERSON STREET	1986	Yes	No	No			
65	HENDERSON STREET	2008	No					



RSON STREET	1985	Yes	No	No			
	2000	.,	.,				
RSON STREET	2008	Yes	Yes				
				No			
			No	No			
RSON STREET	2008	No					
RSON STREET	1986	Yes	No	No			
RSON STREET	2008	Yes	Yes	Yes	2	SEWER	
RSON STREET	1985	Yes	No	No			
RSON STREET	2008	Yes	No				
RSON STREET	1986	Yes	No	No			
RSON STREET	2008	Yes	No	Yes	1	HOSED TO YARD	TENANT
RSON STREET	2008	No					
RSON STREET	2008	Yes					HOME ON SLAB
RSON STREET	1985	Yes	No	No			
RSON STREET	2008	Yes	No				
RSON STREET	1985	Yes	No	No			
RSON STREET	2008	Yes	No				
	1991	No					
RSON STREET	2008	Yes	No	Yes	1	PIPE INTO GROUND OUTSIDE OF HOUSE	
RSON STREET	1985	Yes	No	No			
RSON STREET	2008	Yes	No				
RSON STREET	1986	Yes	Yes	Yes		SINK	
RSON STREET	2008	Yes	Yes	Yes	2	YARD	
RSON STREET	1986	Yes	No	No			
RSON STREET	2008	Yes					HOME ON SLAB
	1985	Yes	No	No			
RSON STREET	2008	No					
RSON STREET	1989	Yes	No	No			
	2008	No					NO SUMP PUMP (BY OWNER)
RSON STREET	1985	No					NO CELLARS
TTT CIRCLE	1988	Yes	No	No			
ITT CIRCLE	1986	Yes	No	No			
	1986	Yes	No	No			CLEANOUT IN GARAGE
	1986	Yes	No	No			
	1988	Yes	No	No			
	1986	No					
+	1988	No					
	1986	Yes	No	No			
	1986	Yes	No	No			
	1988		No				
GATE STREET	1988	Yes	No	No			
JAIL JINEEL							
	RISON STREET RISON	RSON STREET 2008 RSON STREET 1985 RSON STREET 2008 RSON STREET 1986 RSON STREET 2008 RSON S	RESON STREET	RESON STREET	RESON STREET	RESON STREET	RESON STREET



26	HIGH GATE STREET	1987	Yes	No	No		
32	HIGH GATE STREET	1987	Yes	No	No		
44	HIGH GATE STREET	1988	Yes	No	No		
50	HIGH GATE STREET	1988	No				
63	HIGH GATE STREET	1989	Yes	No	No		
91	HIGH GATE STREET	1986	Yes	No	No		
97	HIGH GATE STREET	1989	Yes	Yes	No		
98	HIGH GATE STREET	1986	Yes	Yes	Yes	GROUND	
104	HIGH GATE STREET	1988	Yes	No	No		
105	HIGH GATE STREET	1988	Yes	No	No		
112	HIGH GATE STREET	1986	Yes	No	No		
115	HIGH GATE STREET	1989	Yes	No	No		
118	HIGH GATE STREET	1986	Yes	No	No		
121	HIGH GATE STREET	1988	Yes	Yes	Yes	GROUND	
124	HIGH GATE STREET	1986	Yes	No	No		
127	HIGH GATE STREET	1988	Yes	Yes	Yes	GROUND	
130	HIGH GATE STREET	1988	Yes	Yes	Yes	GROUND	
135	HIGH GATE STREET	1988	Yes	No	No		
138	HIGH GATE STREET	1989	No				
143	HIGH GATE STREET	1986	Yes	No	No		
144	HIGH GATE STREET	1989	No				
152	HIGH GATE STREET	1986	Yes	Yes	Yes	GROUND	
165	HIGH GATE STREET	1986	Yes	Yes	Yes	GROUND	
172	HIGH GATE STREET	1986	Yes	Yes	Yes	DRY WELL	
173	HIGH GATE STREET	1989	No				
176	HIGH GATE STREET	1989	Yes	No	Yes	GROUND	
180	HIGH GATE STREET	1986	Yes	Yes	Yes	GROUND	
181	HIGH GATE STREET	1988	Yes	No	No		
188	HIGH GATE STREET	1986	Yes	Yes	Yes	GROUND	
189	HIGH GATE STREET	1988	Yes	No	No		
196	HIGH GATE STREET	1986	Yes	Yes	Yes	GROUND	
197	HIGH GATE STREET	1988	Yes	No	No		
203	HIGH GATE STREET	1986	Yes	No	No		
204	HIGH GATE STREET	1986	Yes	Yes	Yes	GROUND	
211	HIGH GATE STREET	1988	Yes	No	Yes		
219	HIGH GATE STREET	1988	Yes	No	No		
40	HIGH ROCK STREET	1987	Yes	Yes	Yes	GROUND	
54	HIGH ROCK STREET	1988	No				
91	HIGH ROCK STREET	1987	Yes	No	No		
92	HIGH ROCK STREET	1987	Yes	No	No		
103	HIGH ROCK STREET	1988	Yes	No	No		
104	HIGH ROCK STREET	1987	Yes	Yes	Yes	SEWER	
111	HIGH ROCK STREET	1987	Yes	No	No		
115	HIGH ROCK STREET	1988	Yes	No	No		



120	HIGH ROCK STREET	1988	Yes	No	Yes		GROUND	
129	HIGH ROCK STREET	1988	Yes	Yes	Yes		GROUND	
144	HIGH ROCK STREET	1985	Yes	No	No		GROUND	
158	HIGH ROCK STREET	1986	Yes	No	No			
168					+		CROLIND	
169	HIGH ROCK STREET	1985 1986	Yes	No	Yes		GROUND GROUND	
	HIGH ROCK STREET		Yes	Yes	Yes			
178	HIGH ROCK STREET	1986	Yes	Yes	Yes		PLUMBING	
179	HIGH ROCK STREET	1985	Yes	No	No		00011110	
185	HIGH ROCK STREET	1985	Yes	No	Yes		GROUND	
191	HIGH ROCK STREET	1985	Yes	No	No			
197	HIGH ROCK STREET	1985	Yes	No	No			
202	HIGH ROCK STREET	1985	Yes	No	Yes		GROUND	
203	HIGH ROCK STREET	1985	Yes	No	Yes		GROUND	
211	HIGH ROCK STREET	1985	Yes	No	Yes		GROUND	
217	HIGH ROCK STREET	1985	Yes	No	No			
223	HIGH ROCK STREET	1985	Yes	No	No			
229	HIGH ROCK STREET	1985	Yes	No	No			
239	HIGH ROCK STREET	1989	No					
257	HIGH ROCK STREET	1985	Yes	No	No			
257	HIGH ROCK STREET	2008	No					
267	HIGH ROCK STREET	1991	Yes	No	Yes		GROUND	
267	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	
275	HIGH ROCK STREET	1986	Yes	No	Yes			
275	HIGH ROCK STREET	2008	Yes	Yes	Yes	2	YARD	1 HARDPIPED, 1 SOFTPIPED
281	HIGH ROCK STREET	1985	No					
287	HIGH ROCK STREET	1986	Yes	Yes	Yes		GROUND	
287	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	
293	HIGH ROCK STREET	1985	Yes	No	No			
293	HIGH ROCK STREET	2008	No					
299	HIGH ROCK STREET	1985	Yes	No	No			
299	HIGH ROCK STREET	2008	Yes	No				
307	HIGH ROCK STREET	1986	Yes	No	No			
307	HIGH ROCK STREET	2008	No					
313	HIGH ROCK STREET	1991	No					
315	HIGH ROCK STREET	2008	Yes					
319	HIGH ROCK STREET	1989	Yes	No	No			
319	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	SEWER CONNECTION IN GARAGE,
323	HIGH ROCK STREET	1986	Yes	Yes	Yes		GROUND	
323	HIGH ROCK STREET	2008	No					
331	HIGH ROCK STREET	1991	Yes	No	No			
331	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	
342	HIGH ROCK STREET	2008	No			-	.,2	



343	HIGH ROCK STREET	1985	Yes	No	No			
343	HIGH ROCK STREET	2008	No	140	110			
352	HIGH ROCK STREET	1985	Yes	Yes	Yes		GROUND	
352	HIGH ROCK STREET	2008	No	. 00			5.1.5	
361	HIGH ROCK STREET	1985	Yes	No	No			
361	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	OWNER SAYS TO TOWN DRAIN	
364	HIGH ROCK STREET	1989	Yes	No	No			
364	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	HOSED TO YARD	
367	HIGH ROCK STREET	1989	Yes	No	No			
367	HIGH ROCK STREET	2008	No	-				
368	HIGH ROCK STREET	1985	Yes	Yes	No			
368	HIGH ROCK STREET	2008	No					
373	HIGH ROCK STREET	1985	Yes	No	No			
373	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	DRIVEWAY	
378	HIGH ROCK STREET	1986	Yes	No	No			
378	HIGH ROCK STREET	2008	Yes	No				
381	HIGH ROCK STREET	1986	Yes	No	No			
381	HIGH ROCK STREET	2008	Yes	No				
384	HIGH ROCK STREET	1985	Yes	No	No			
384	HIGH ROCK STREET	2008	Yes	Yes	110			
387	HIGH ROCK STREET	1986	Yes	No	No			
387	HIGH ROCK STREET	2008	Yes	No	110			
390	HIGH ROCK STREET	1986	Yes	Yes	Yes		SINK	
390	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	HOSED TO YARD	HOLE IN FLOOR, USES PUMP WHEN NEEDED, 1 BACKUP PUMP
395	HIGH ROCK STREET	1985	Yes	Yes	No			
395	HIGH ROCK STREET	2008	Yes	No				
398	HIGH ROCK STREET	1989	Yes	Yes	Yes		GROUND	
398	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	OWNER SAYS TO TOWN DRAIN	
401	HIGH ROCK STREET	1985	Yes	Yes	No			
401	HIGH ROCK STREET	2008	Yes	No				
404	HIGH ROCK STREET	1986	Yes	Yes	Yes		GROUND	
404	HIGH ROCK STREET	2008	Yes	No				
407	HIGH ROCK STREET	1985	Yes	No	No			
407	HIGH ROCK STREET	2008	Yes	No				
410	HIGH ROCK STREET	1991	No					
410	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	
418	HIGH ROCK STREET	1985	Yes	Yes	No			
418	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	FRENCH DRAIN INSIDE BASEMENT
424	HIGH ROCK STREET	1991	No					



424	HIGH ROCK STREET	2008	No					
430	HIGH ROCK STREET	1985	Yes	Yes	No			
430	HIGH ROCK STREET	2008	No					
431	HIGH ROCK STREET	1985	Yes	Yes	Yes		GROUND	
431	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	HOSED TO YARD	
437	HIGH ROCK STREET	1986	Yes	No	No			
437	HIGH ROCK STREET	2008	Yes					
443	HIGH ROCK STREET	1985	Yes	No	No			
443	HIGH ROCK STREET	2008	Yes	No				
449	HIGH ROCK STREET	1985	Yes	No	No			
449	HIGH ROCK STREET	2008	Yes	No				HALF FINISHED BASEMENT
452	HIGH ROCK STREET	1991	Yes	No	No			
452	HIGH ROCK STREET	2008	No					
455	HIGH ROCK STREET	1985	Yes	No	No			
455	HIGH ROCK STREET	2008	Yes	No				
456	HIGH ROCK STREET	1985	Yes	No	No			
456	HIGH ROCK STREET	2008	Yes	No				
461	HIGH ROCK STREET	1985	Yes	No	No			
462	HIGH ROCK STREET	1985	Yes	Yes	Yes		GROUND	
462	HIGH ROCK STREET	2008	No					
463	HIGH ROCK STREET	2008	No					
472	HIGH ROCK STREET	1985	Yes	No	No			
472	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	
473	HIGH ROCK STREET	1985	Yes	No	No			
473	HIGH ROCK STREET	2008	No					
480	HIGH ROCK STREET	1985	Yes	No	No			
480	HIGH ROCK STREET	2008	Yes	No				
493	HIGH ROCK STREET	1986	Yes	No	No			
493	HIGH ROCK STREET	2008	No					
494	HIGH ROCK STREET	1986	No					
494	HIGH ROCK STREET	1989	Yes	No	No			
494	HIGH ROCK STREET	2008	Yes	No	Yes	2	OWNER SAYS TO	
434	THOT NOCK STREET	2000	163	140	163		DRYWELL	
503	HIGH ROCK STREET	1986	Yes	No	No			
503	HIGH ROCK STREET	2008	Yes	No				
506	HIGH ROCK STREET	1985	Yes	No	No			
506	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	HOSED TO YARD	
515	HIGH ROCK STREET	1985	Yes	No	No			
515	HIGH ROCK STREET	2008	No					
516	HIGH ROCK STREET	1985	Yes	No	No			
516	HIGH ROCK STREET	2008	No					
521	HIGH ROCK STREET	1986	Yes	Yes	Yes		GROUND	
521	HIGH ROCK STREET	2008	Yes	Yes	Yes	2	YARD	
522	HIGH ROCK STREET	1991	Yes	No	Yes			



522	HIGH ROCK STREET	2008	No					
529	HIGH ROCK STREET	1991	No					
			140					INFREQUENT WATER IN
529	HIGH ROCK STREET	2008	Yes	Yes				BASEMENT
530	HIGH ROCK STREET	1986	Yes	No	No			S/ (SEWIE) V
530	HIGH ROCK STREET	2008	Yes	Yes	Yes	2	SEWER	
536	HIGH ROCK STREET	1985	Yes	No	No	_	02.772.77	
536	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	
541	HIGH ROCK STREET	1985	Yes	No	Yes		SINK	
541	HIGH ROCK STREET	2008	No					
542	HIGH ROCK STREET	1985	Yes	No	No			
542	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	
549	HIGH ROCK STREET	1985	Yes	Yes	Yes		GROUND	
549	HIGH ROCK STREET	2008	No					
557	HIGH ROCK STREET	1985	Yes	Yes	Yes		SINK	
567	HIGH ROCK STREET	1985	Yes	No	No			
567	HIGH ROCK STREET	2008	Yes	No				
570	HIGH ROCK STREET	1991	Yes	No	No			
570	HIGH ROCK STREET	2008	Yes	No				
579	HIGH ROCK STREET	1985	Yes	No	No			
579	HIGH ROCK STREET	2008	Yes	No				
580	HIGH ROCK STREET	1985	Yes	No	No			
580	HIGH ROCK STREET	2008	No					
589	HIGH ROCK STREET	2008	Yes	Yes	Yes	1	YARD	
590	HIGH ROCK STREET	1989	No					
590	HIGH ROCK STREET	2008	No					
597	HIGH ROCK STREET	1989	No					
597	HIGH ROCK STREET	2008	Yes					
600	HIGH ROCK STREET	1985	Yes	No	No			
600	HIGH ROCK STREET	2008	Yes	No				
604	HIGH ROCK STREET	2008	Yes					
609	HIGH ROCK STREET	1985	Yes	No	No			
612	HIGH ROCK STREET	1985	Yes	No	Yes		GROUND	
9	HIGH STREET	1986	Yes	No	No			
15	HIGH STREET	1986	Yes	No	No			
21	HIGH STREET	1986	Yes	No	No			
31	HIGH STREET	1986	Yes	No	No			
32	HIGH STREET	1985	Yes	No	No			
40	HIGH STREET	1985	Yes	No	No			
46	HIGH STREET	1986	No					NOT CONNECTED TO SEWER
54	HIGH STREET	1985	Yes	No	No			
55	HIGH STREET	1986	Yes	No	No			
59	HIGH STREET	1989	Yes	Yes	No			
60	HIGH STREET	1985	Yes	No	No			



60	LUCU STREET	4005						1
68	HIGH STREET	1985	Yes	No	No			
74	HIGH STREET	1986	Yes	No	No			
77	HIGH STREET	1986	Yes	No	No			
82	HIGH STREET	1986	Yes	No	No			
83	HIGH STREET	1989	No					
87	HIGH STREET	1985	Yes	No	No			
88	HIGH STREET	1986	Yes	No	No			
94	HIGH STREET	1985	Yes	No	No			
100	HIGH STREET	1985	Yes	No	No			
103/105	HIGH STREET	1986	Yes	No	No			
22/24	HIGH STREET	1985	Yes	No	No			
588	HIGHLAND AVE	1988	No					
589	HIGHLAND AVE	1988	No					
590	HIGHLAND AVE	1988	Yes	No				
596	HIGHLAND AVE	1988	Yes	No	No			CONNECTED TO MANHOLE
607	HIGHLAND AVE	1988	Yes	No	No			
612	HIGHLAND AVE	1987	Yes	No	No			
613	HIGHLAND AVE	1987	Yes	No	No			
619	HIGHLAND AVE	1987	Yes	No	No			
620	HIGHLAND AVE	1988	Yes	No	No			
716	HIGHLAND AVE	1989	No					VACANT
720	HIGHLAND AVE	1986	Yes	No	No			
736	HIGHLAND AVE	1985	Yes	No	No			
740	HIGHLAND AVE	1986	Yes	No	Yes		GROUND	
746	HIGHLAND AVE	1986	Yes	No	No			
767	HIGHLAND AVE	1985	Yes	No	No			
770	HIGHLAND AVE	1985	Yes	No	No			
780	HIGHLAND AVE	1985	Yes	No	No			
781	HIGHLAND AVE	1986	Yes	No	No			
785	HIGHLAND AVE	1985	Yes	Yes	Yes		SEWER	
790	HIGHLAND AVE	1985	Yes	No	No			
791	HIGHLAND AVE	1985	Yes	Yes	Yes		SEWER	
797	HIGHLAND AVE	1985	Yes	No	No		0217211	
1049	HIGHLAND AVE	1985	Yes	Yes	Yes		GROUND	
1052	HIGHLAND AVE	1985	Yes	No	No		CITOGITE	
1055	HIGHLAND AVE	1989	Yes	No	No			
1058	HIGHLAND AVE	1985	Yes	No	No			
1061	HIGHLAND AVE	1988	Yes	No	No			
1061	HIGHLAND AVE	1985	Yes	No	No			
1062	HIGHLAND AVE	1986	Yes	No	No			
1072	HIGHLAND AVE	1986	Yes	No	No			
1072	HIGHLAND AVE	1985	Yes	No	No			
1075		1985		No	No			
	HIGHLAND AVE		Yes					
1081	HIGHLAND AVE	1986	Yes	No	No			L



			No	No	Vac	1005	LUCIU AND AVE	1002
			No	No	Yes	1985	HIGHLAND AVE	1082
			No	Yes	Yes	1985	HIGHLAND AVE	1090
			No	No	Yes	1989	HIGHLAND AVE	1092
			No	No	Yes	1986	HIGHLAND AVE	1095
			No	No	Yes	1985	HIGHLAND AVE	1096
					No	1986	HIGHLAND AVE	1101
			No	No	Yes	1986	HIGHLAND AVE	1102
			No	No	Yes	1986	HIGHLAND AVE	1111
		SEWER	Yes	Yes	Yes	1985	HIGHLAND AVE	1112
			No	No	Yes	1986	HIGHLAND AVE	773/775
					No	1988	HILLCREST ROAD	9
			No	No	Yes	1988	HILLCREST ROAD	12
2 SUMP PUMPS		GROUND	Yes	Yes	Yes	1988	HILLCREST ROAD	15
			No	No	Yes	1986	HILLCREST ROAD	18
			No	No	Yes	1988	HILLCREST ROAD	28
			No	No	Yes	1986	HILLCREST ROAD	35
			No	No	Yes	1988	HILLCREST ROAD	36
			No	No	Yes	1986	HILLCREST ROAD	41
			No	No	Yes	1986	HILLCREST ROAD	42
			No	No	Yes	1988	HILLCREST ROAD	46
					No	1988	HILLCREST ROAD	49
					No	1988	HILLCREST ROAD	63
EANOUT NOT VISIBLE	CLE		No	No	Yes	1988	HILLCREST ROAD	66
			No	No	Yes	1988	HILLCREST ROAD	70
					No	1988	HILLCREST ROAD	74
			No	No	Yes	1986	HILLCREST ROAD	79
			No	No	Yes	1988	HILLCREST ROAD	80
			No	No	Yes	1986	HILLCREST ROAD	85
					No	1986	HILLCREST ROAD	89
			No	No	Yes	1988	HILLCREST ROAD	89
					No	1988	HILLCREST ROAD	94
			No	No	Yes	1986	HILLCREST ROAD	99
			No	No	Yes	1988	HILLCREST ROAD	103
-			No	No	Yes	1986	HILLCREST ROAD	125
			No	No	Yes	1988	HILLCREST ROAD	128
			No	No	Yes	1986		134
								_
IO SUCH ADDRESS?	N	?	?	?				
	 	· · · · · · · · · · · · · · · · · · ·	•					
			140	140				
	N	?	No No	No No			HILLCREST ROAD	



159	HILLCREST ROAD	1986	Yes	No	No		
165	HILLCREST ROAD	1986	Yes	No	No		CLEANOUT NOT VISIBLE
166	HILLCREST ROAD	1986	Yes	No	No		
176	HILLCREST ROAD	1986	Yes	No	No		
184	HILLCREST ROAD	1986	Yes	No	No		
193	HILLCREST ROAD	1988	Yes	No	No		
197	HILLCREST ROAD	1986	Yes	No	No		CLEANOUT NOT VISIBLE
198	HILLCREST ROAD	1988	Yes	No	No		
203	HILLCREST ROAD	1988	Yes	No	No		
204	HILLCREST ROAD	1988	Yes	No	No		
208	HILLCREST ROAD	1988	Yes	No	No		
211	HILLCREST ROAD	1988	Yes	No	Yes	GROUND	
214	HILLCREST ROAD	1989	Yes	No	No		
217	HILLCREST ROAD	1988	Yes	No	No		
221	HILLCREST ROAD	1986	Yes	No	No		
224	HILLCREST ROAD	1986	Yes	No	No		CLEANOUT GOES OUT BACK
227	HILLCREST ROAD	1986	Yes	No	No		
233	HILLCREST ROAD	1986	Yes	No	No		
242	HILLCREST ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE
245	HILLCREST ROAD	1986	Yes	No	Yes	SINK	
250	HILLCREST ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
253	HILLCREST ROAD	1988	Yes	No	No		
256	HILLCREST ROAD	1986	Yes	No	No		
259	HILLCREST ROAD	1989	No				
262	HILLCREST ROAD	1988	Yes	No	No		
267	HILLCREST ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
289	HILLCREST ROAD	1986	Yes	Yes	Yes	SINK	
300	HILLCREST ROAD	1986	Yes	No	Yes	GROUND	
301	HILLCREST ROAD	1986	Yes	Yes	No		
307	HILLCREST ROAD	1989	Yes	No	No		
313	HILLCREST ROAD	1989	Yes	No	No		
319	HILLCREST ROAD	1989	Yes	No	No		
324	HILLCREST ROAD	1986	Yes	No	No		
332	HILLCREST ROAD	1989	No				
342	HILLCREST ROAD	1986	Yes	No	No		
348	HILLCREST ROAD	1986	Yes	No	No		
349	HILLCREST ROAD	1989	No				
351	HILLCREST ROAD	1989	No				
356	HILLCREST ROAD	1989	No				
361	HILLCREST ROAD	1988	Yes	No	No		
362	HILLCREST ROAD	1989	No				
368	HILLCREST ROAD	1986	Yes	No	No		
369	HILLCREST ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
375	HILLCREST ROAD	1986	Yes	No	No		



376	HILLCREST ROAD	1989	No				
381	HILLCREST ROAD	1986	Yes	No	No		
384	HILLCREST ROAD	1989	Yes	No	No		
390	HILLCREST ROAD	1989	Yes	No	No		CLEANOUT NOT VISIBLE
393	HILLCREST ROAD	1986	Yes	No	No		CELANOOT NOT VISIBLE
398	HILLCREST ROAD	1989	No	INO	INO		
403	HILLCREST ROAD	1988	Yes	No	No		
406	HILLCREST ROAD	1988	Yes	No	No		
412	HILLCREST ROAD	1988	Yes	No	No		
25/27	HILLCREST ROAD	1988	No	INO	INO		ALREADY DONE
13	HILLSIDE AVE	1988	Yes	No	No		ALREADT DONE
28	HILLSIDE AVE	1988	Yes	No	No		
34	HILLSIDE AVE	1986			Yes	CDOLIND	
40	HILLSIDE AVE	1986	Yes	Yes No		GROUND GROUND	
50	HILLSIDE AVE	1988	Yes	_	Yes	GROUND	
58	HILLSIDE AVE		Yes	No	No		
		1988	No	NI-	NI-		
64	HILLSIDE AVE	1986	Yes	No	No		
70	HILLSIDE AVE	1986	Yes	No	No		
71	HILLSIDE AVE	1988	Yes	No	No		
80	HILLSIDE AVE	1986	Yes	No	No		
81	HILLSIDE AVE	1988	No				
86	HILLSIDE AVE	1988	Yes	No	No		CAP HAS WASHER CONNECTED
87	HILLSIDE AVE	1986	Yes	No	No		
90	HILLSIDE AVE		No				
94	HILLSIDE AVE	1986	Yes	No	No		CLEANOUT BY FURNACE
96	HILLSIDE AVE	1986	Yes	No	No		
97	HILLSIDE AVE	1988	No				
101	HILLSIDE AVE	1988	Yes	No	No		
102	HILLSIDE AVE	1988	Yes	No	No		
106	HILLSIDE AVE	1986	Yes	No	No		
114	HILLSIDE AVE	1987	Yes	No	No		
115	HILLSIDE AVE	1987	Yes	No	No		
120	HILLSIDE AVE	1987	Yes	No	No		
128	HILLSIDE AVE	1987	Yes	No	No		
130	HILLSIDE AVE	1987	Yes	Yes	Yes	PLUMBING	
131	HILLSIDE AVE	1987	No				
175	HILLSIDE AVE	1988	Yes	No	No		
180	HILLSIDE AVE	1987	No				
183	HILLSIDE AVE	1988	Yes	No	No		
217	HILLSIDE AVE	1987	No				
222	HILLSIDE AVE	1987	Yes	No	No		
230	HILLSIDE AVE	1987	No				
249	HILLSIDE AVE	1987	Yes	No	No		CLEANOUT NOT VISIBLE



254	HILLSIDE AVE	1987	Yes	No	No		
257	HILLSIDE AVE	1987	No	110	110		
264	HILLSIDE AVE	1987	No				UNDER RECONSTRUCTION?
280	HILLSIDE AVE	1987	No				SHEER RECONSTRUCTION.
283	HILLSIDE AVE	1987	No				
297	HILLSIDE AVE	1988	Yes	No	No		
335	HILLSIDE AVE	1987	Yes	No	No		
368	HILLSIDE AVE	1987	Yes	No	No		
378	HILLSIDE AVE	1987	No	110	140		
381	HILLSIDE AVE	1987	No				
388	HILLSIDE AVE	1987	Yes	No	No		
395	HILLSIDE AVE	1987	No	NO	INO		
121/123	HILLSIDE AVE	1987	Yes	No	No		
132/134	HILLSIDE AVE	1987		Yes	+	GROUND	CLEANOUT NOT VISIBLE
136/140	HILLSIDE AVE	1987	Yes Yes	No	Yes No	GROUND	CLEANOUT NOT VISIBLE
197/199	HILLSIDE AVE	1987		INO	INO		
,			No				
229/231	HILLSIDE AVE	1987	No	NI-	NI-		CLEANIOLIT MOTA/ICIDLE
263/265	HILLSIDE AVE	1987	Yes	No	No		CLEANOUT NOT VISIBLE
309/311	HILLSIDE AVE	1987	No				
321/323	HILLSIDE AVE	1987	Yes	No	No		
369/371	HILLSIDE AVE	1987	Yes	No	No		
14	HOLLAND STREET	1986	Yes	No	No		WASHING MACHINE HOOKED TO CLEANOUT
15	HOLLAND STREET	1986	Yes	No	No		
21	HOLLAND STREET	1988	No	?	3	?	NO SUCH ADDRESS?
24	HOLLAND STREET	1986	Yes	No	No		
4	HOLLAND TERRACE	1986	Yes	No	No		
9	HOLLAND TERRACE	1988	No				HOUSE NOT OCCUPIED
10	HOLLAND TERRACE	1986	Yes	No	No		
14	HOLLAND TERRACE	1988	Yes	No	No		
15	HOLLAND TERRACE	1986	Yes	No	No		
20	HOLLAND TERRACE	1986	Yes	No	No		
21	HOLLAND TERRACE	1986	No				
7	HOLLOW RIDGE ROAD	1987	Yes	No	No		
10	HOLLOW RIDGE ROAD	1988	Yes	No	No		
17	HOLLOW RIDGE ROAD	1987	Yes	No	No		
18	HOLLOW RIDGE ROAD	1987	Yes	No	No		
24	HOLLOW RIDGE ROAD	1988	Yes	No	No		
25	HOLLOW RIDGE ROAD	1988	No		1		
30	HOLLOW RIDGE ROAD	1987	Yes	No	No		
31	HOLLOW RIDGE ROAD	1988	Yes	No	No		
40	HOLLOW RIDGE ROAD	1988	No	1.5	1		
3	HOLMES STREET	1985	Yes	No	No		
11	HOLMES STREET	1988	Yes	No	No		



25	HOLMES STREET	1986	Yes	No	No		
26	HOLMES STREET	1986	Yes	No	No		
46	HOLMES STREET	1986	Yes	No	No		
52	HOLMES STREET	1988	Yes	No	No		
55	HOLMES STREET	1989	No	110	110		
58	HOLMES STREET	1986	Yes	No	No		
61	HOLMES STREET	1988	Yes	No	No		
67	HOLMES STREET	1988	Yes	No	Yes		CLEANOUT NOT VISIBLE
15	HOMESTEAD PARK	1985	Yes	No	No		CLL/11/001 1/01 VISIBLE
18	HOMESTEAD PARK	1985	No				
19	HOMESTEAD PARK	1986	Yes	No	No		
24	HOMESTEAD PARK	1986	Yes	No	No		
25	HOMESTEAD PARK	1985	Yes	No	Yes	SEWER	
29	HOMESTEAD PARK	1985	Yes	No	Yes	SINK	
30	HOMESTEAD PARK	1986	Yes	No	No	Sirtic	
36	HOMESTEAD PARK	1985	Yes	No	No		
41	HOMESTEAD PARK	1985	Yes	No	No		
46	HOMESTEAD PARK	1985	Yes	No	No		
53	HOMESTEAD PARK	1985	Yes	No	No		
54	HOMESTEAD PARK	1985	Yes	No	No		
12	HOOVER ROAD	1985	Yes	No	No		
15	HOOVER ROAD	1985	Yes	No	No		
18	HOOVER ROAD	1986	Yes	No	No		
19	HOOVER ROAD	1985	Yes	No	No		
25	HOOVER ROAD	1985	Yes	No	No		
26	HOOVER ROAD	1986	Yes	Yes	Yes		
32	HOOVER ROAD	1986	Yes	No	No		
33	HOOVER ROAD	1988	Yes	No	No		
45	HOOVER ROAD	1985	Yes	No	No		
46	HOOVER ROAD	1985	Yes	No	No		
51	HOOVER ROAD	1985	Yes	No	No		
54	HOOVER ROAD	1985	Yes	No	No		
60	HOOVER ROAD	1986	Yes	No	No		
61	HOOVER ROAD	1989	No				
67	HOOVER ROAD	1985	Yes	No	No		
68	HOOVER ROAD	1986	Yes	No	No		
75	HOOVER ROAD	1985	Yes	No	No		
81	HOOVER ROAD	1986	Yes	No	No		
99	HOOVER ROAD	1986	Yes	No	No		
100	HOOVER ROAD		Yes	No	No		
107	HOOVER ROAD	1986	Yes	No	No		
108	HOOVER ROAD	1986	Yes	No	No		
111	HOOVER ROAD	1986	Yes	No	No		
112	HOOVER ROAD	1989	Yes	No	No		



117	HOOVER ROAD		No				
118	HOOVER ROAD	1985	Yes	No	No		
122	HOOVER ROAD	1989	No	-			
123	HOOVER ROAD	1989	Yes	No	No		
137	HOOVER ROAD	1985	Yes	No	No		
140	HOOVER ROAD	1985	Yes	No	No		
26	HORACE STREET	1986	No	-			
28	HORACE STREET	1988	Yes	No	No		
34	HORACE STREET	1986	Yes	No	No		
39	HORACE STREET	1986	Yes	No	No		
43	HORACE STREET	1988	Yes	No	No		
46	HORACE STREET	1986	Yes	No	No		
49	HORACE STREET	1986	Yes	No	No		
54	HORACE STREET	1986	Yes	No	No		
55	HORACE STREET	1988	No				
60	HORACE STREET	1986	Yes	No	No		
7	HOWE ROAD	1986	Yes	No	No		
8	HOWE ROAD	1986	Yes	No	No		
14	HOWE ROAD	1986	Yes	No	No		
15	HOWE ROAD	1986	Yes	No	No		
21	HOWE ROAD	1986	Yes	Yes	Yes	PLUMBING	
22	HOWE ROAD	1986	Yes	No	No		
27	HOWE ROAD	1986	Yes	No	No		
28	HOWE ROAD	1986	Yes	No	No		
35	HOWE ROAD	1986	Yes	No	No		
36	HOWE ROAD	1986	Yes	No	No		
19	HOWLAND STREET	1988	No				
23	HOWLAND STREET	1987	Yes	No	No		
29	HOWLAND STREET	1987	Yes	No	No		
30	HOWLAND STREET	1987	Yes	No	No		
36	HOWLAND STREET	1988	Yes	No	No		
39	HOWLAND STREET	1988	Yes	No	No		
42	HOWLAND STREET	1987	Yes	No	No		
44	HOWLAND STREET	1987	Yes	No	No		
45	HOWLAND STREET	1987	Yes	No	Yes	GROUND	
56	HOWLAND STREET	1988	No				
60	HOWLAND STREET	1987	No				NOT CONNECTED
68	HOWLAND STREET	1987	Yes	No	No		CLEANOUT NOT VISIBLE
69	HOWLAND STREET	1987	Yes	No	No		CLEANOUT NOT VISIBLE
76	HOWLAND STREET	1987	Yes	Yes	Yes	GROUND	
46/48	HOWLAND STREET	1987	Yes	No	No		
8	HUNNEWELL STREET	1986	Yes	No	No		
14	HUNNEWELL STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
26	HUNNEWELL STREET	1988	Yes	No	Yes	GROUND	



30	HUNNEWELL STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
38	HUNNEWELL STREET	1986	Yes	No	No		
44	HUNNEWELL STREET	1986	Yes	No	No		
53	HUNNEWELL STREET	1988	No				
56	HUNNEWELL STREET	1988	No				
61	HUNNEWELL STREET	1988	No				
66	HUNNEWELL STREET	1986	Yes	No	No		
67	HUNNEWELL STREET	1988	Yes	No	No		
76	HUNNEWELL STREET	1988	Yes	No	No		
79	HUNNEWELL STREET	1988	Yes	No	No		
87	HUNNEWELL STREET	1988	Yes	No	No		
90	HUNNEWELL STREET	1988	No				
95	HUNNEWELL STREET	1988	No				
98	HUNNEWELL STREET	1986	Yes	No	No		
101	HUNNEWELL STREET	1988	Yes	No	No		
104	HUNNEWELL STREET	1986	Yes	Yes	No		
112	HUNNEWELL STREET	1988	Yes	No	No		
113	HUNNEWELL STREET	1988	Yes	No	No		
122	HUNNEWELL STREET	1988	No				
128	HUNNEWELL STREET	1988	No				
133	HUNNEWELL STREET	1988	Yes	No	No		
134	HUNNEWELL STREET	1986	Yes	No	No		
137	HUNNEWELL STREET	1986	Yes	No	No		
143	HUNNEWELL STREET	1988	Yes	No	No		CLEANOUT UNDER RUG @ REAR GROUND LEVEL ENTRANCE
159	HUNNEWELL STREET	1988	No				
161	HUNNEWELL STREET	1988	No				
166	HUNNEWELL STREET	1988	Yes	No	No		
169	HUNNEWELL STREET	1986	Yes	No	No		
172	HUNNEWELL STREET	1988	Yes	No	No		
175	HUNNEWELL STREET	1986	Yes	No	No		
178	HUNNEWELL STREET	1988	Yes	No	No		
184	HUNNEWELL STREET	1986	Yes	No	No		
190	HUNNEWELL STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
193	HUNNEWELL STREET	1986	No				
200	HUNNEWELL STREET	1986	Yes	No	No		
207	HUNNEWELL STREET	1986	No				
208	HUNNEWELL STREET	1988	No				
212	HUNNEWELL STREET	1988	Yes	No	Yes	GROUND	
213	HUNNEWELL STREET	1988	No				
219	HUNNEWELL STREET	1986	Yes	No	No		
220	HUNNEWELL STREET	1988	Yes	No	No		
223	HUNNEWELL STREET	1988	Yes	No	No		



224	HUNNEWELL STREET	1988	Yes	No	No		
235	HUNNEWELL STREET	1988	No	?	?	?	NO SUCH ADDRESS?
237	HUNNEWELL STREET	1986	Yes	Yes	No		
238	HUNNEWELL STREET	1988	No				
245	HUNNEWELL STREET	1988	No				
246	HUNNEWELL STREET	1988	Yes	No	No		
252	HUNNEWELL STREET	1986	Yes	No	No		
254	HUNNEWELL STREET	1986	Yes	No	No		
260	HUNNEWELL STREET	1988	Yes	No	No		
263	HUNNEWELL STREET	1986	Yes	No	No		
264	HUNNEWELL STREET	1988	No		No		
266	HUNNEWELL STREET	1986	No				
267	HUNNEWELL STREET	1986	Yes	Yes	No		
270	HUNNEWELL STREET	1988	Yes	No	No		
273	HUNNEWELL STREET	1988	Yes	No	No		
274	HUNNEWELL STREET	1988	No				
282	HUNNEWELL STREET	1986	Yes	No	No		
284	HUNNEWELL STREET	1986	Yes	No	No		
287	HUNNEWELL STREET	1986	Yes	Yes	No		
292	HUNNEWELL STREET	1986	Yes	No	No		
300	HUNNEWELL STREET	1988	Yes	No	No		
303	HUNNEWELL STREET	1988	No		No		
308	HUNNEWELL STREET	1988	Yes	No	No		
312	HUNNEWELL STREET	1988	No				
316	HUNNEWELL STREET	1986	Yes	No	No		
318	HUNNEWELL STREET	1988	No				
322	HUNNEWELL STREET	1986	Yes	No	No		
325	HUNNEWELL STREET	1988	No				
330	HUNNEWELL STREET	1986	Yes	No	No		
331	HUNNEWELL STREET	1988	No				
335	HUNNEWELL STREET	1986	Yes	No	No		
336	HUNNEWELL STREET	1988	Yes	Yes	No		
337	HUNNEWELL STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
338	HUNNEWELL STREET	1986	No				
340	HUNNEWELL STREET	1986	No				
341	HUNNEWELL STREET	1988	No				
342	HUNNEWELL STREET	1988	No				NO SEWER
343	HUNNEWELL STREET	1986	Yes	No	No		
344	HUNNEWELL STREET	1986	Yes	No	No		
348	HUNNEWELL STREET	1988	No				
349	HUNNEWELL STREET	1988	No				
350	HUNNEWELL STREET	1988	No				
351	HUNNEWELL STREET	1988	No				
352	HUNNEWELL STREET	1986	Yes	No	No		



354	HUNNEWELL STREET	1988	Yes	No	No			
358	HUNNEWELL STREET	1988	No	110	110			
359	HUNNEWELL STREET	1988	Yes	No	No			
360	HUNNEWELL STREET	1988	No	110	110			
363	HUNNEWELL STREET	1986	Yes	No	No			
364	HUNNEWELL STREET	1988	No	110	110			
366	HUNNEWELL STREET	1988	No					
367	HUNNEWELL STREET	1988	No					
370	HUNNEWELL STREET	1988	No					
373	HUNNEWELL STREET	1988	Yes	No	No			
379	HUNNEWELL STREET	1988	Yes	No	No			
381	HUNNEWELL STREET	1988	Yes	No	No			
390	HUNNEWELL STREET	1988	Yes	No	No			
396	HUNNEWELL STREET	1988	No	INU	INO			
540	HUNNEWELL STREET	1985	Yes	No	No			
546	HUNNEWELL STREET	1989	Yes	No	No			CLEANOUT IN CRAWL SPACE
565	HUNNEWELL STREET	1986	Yes	Yes	Yes		SEWER	CLEANOUT IN CRAWL SPACE
566	HUNNEWELL STREET	1986	Yes	Yes	Yes		GROUND	
569	HUNNEWELL STREET	1986	Yes	No	No		GROUND	
					+			
574 578	HUNNEWELL STREET	1986 1985	Yes Yes	No No	No No			
578	HUNNEWELL STREET	1985			No			
	HUNNEWELL STREET		Yes	No	+			
601	HUNNEWELL STREET	1989	Yes	No	No		CINII	N/IOLATION
609	HUNNEWELL STREET	1985	Yes	No	Yes		SINK	VIOLATION
615	HUNNEWELL STREET	1989	No	N.				
295/297	HUNNEWELL STREET	1988	Yes	No	No			
306/608	HUNNEWELL STREET	1988	No					
379/381	HUNNEWELL STREET	1988	No		.			
526/528	HUNNEWELL STREET	1985	Yes	No	No			
573/575	HUNNEWELL STREET	1985	Yes	No	Yes			
15	HUNTING ROAD	1988	Yes	No	No			
35	HUNTING ROAD	1988	No					
36	HUNTING ROAD	1988	No		-	1		
43	HUNTING ROAD	1988	No		 	1		0.170.05.55
44	HUNTING ROAD	1988	Yes	No	No	-		OUTSIDE FOUNDATION
49	HUNTING ROAD	1988	No	ļ	1	ļ		
55	HUNTING ROAD	1987	Yes	No	No	ļ		
60	HUNTING ROAD	1987	Yes	No	No	ļ		
61	HUNTING ROAD	1988	No	1	1	ļ		
69	HUNTING ROAD	1988	Yes	No	No			NO SEWER IN HOUSE
78	HUNTING ROAD	1988	No					
83	HUNTING ROAD	1988	Yes	No	No			
89	HUNTING ROAD	1987	Yes	No	No			
103	HUNTING ROAD	1988	No]				



104	HUNTING ROAD	1988	No				
115	HUNTING ROAD	1987	Yes	No	No		
129	HUNTING ROAD	1987	Yes	No	No		
135	HUNTING ROAD	1988	Yes	No	No		
143	HUNTING ROAD	1988	Yes	Yes	Yes	GROUND	
147	HUNTING ROAD	1988	Yes	No	No	0002	
153	HUNTING ROAD	1988	No	1.0			
161	HUNTING ROAD	1988	Yes	No	No		
167	HUNTING ROAD	1987	Yes	No	No		
176	HUNTING ROAD	1988	Yes	No	No		MANHOLE
177	HUNTING ROAD	1988	No				,
183	HUNTING ROAD	1988	Yes	No	No		
189	HUNTING ROAD	1988	No	110	110		
190	HUNTING ROAD	1987	No				
197	HUNTING ROAD	1988	Yes	No	No		
200	HUNTING ROAD	1987	Yes	No	No		BEHIND PANEL
203	HUNTING ROAD	1987	Yes	No	No		DETINO 1744EE
209	HUNTING ROAD	1987	Yes	No	No		CAP HIDDEN
210	HUNTING ROAD	1988	No				G.W. 1.112 Z.11
220	HUNTING ROAD	1988	No				
228	HUNTING ROAD	1988	Yes	No	No		
236	HUNTING ROAD	1987	Yes	No	No		
244	HUNTING ROAD	1988	Yes	No	No		
250	HUNTING ROAD	1988	Yes	No	No		
260	HUNTING ROAD	1988	Yes	No	No		MANHOLE
286	HUNTING ROAD	1987	No	110	110		NATIOEE .
290	HUNTING ROAD	1988	Yes	No	No		
296	HUNTING ROAD	1987	Yes	No	No		
10	INA ROAD	1986	Yes	No	No		CLEANOUT NOT VISIBLE
11	INA ROAD	1988	Yes	No	No		
18	INA ROAD	1986	Yes	No	No		CLEANOUT BURIED IN GARAGE
19	INA ROAD	1988	Yes	No	No		
24	INA ROAD	1986	Yes	No	No		
27	INA ROAD	1989	Yes	No	No		
9	INGLESIDE ROAD	1988	Yes	No	No		
14	INGLESIDE ROAD	1986	Yes	No	No		
21	INGLESIDE ROAD	1988	No	INO	INO		
22	INGLESIDE ROAD	1988	Yes	No	No		
	INGLESIDE NOAD	1300	163	INO	INO		WASHING MACHINE HOOKED
42	INGLESIDE ROAD	1986	Yes	No	No		INTO SEWER CLEANOUT
6	INTERVALE ROAD	1987	Yes	No	No		
7	INTERVALE ROAD	1987	Yes	No	Yes	GROUND	
12	INTERVALE ROAD	1987	Yes	No	No		



15	INTERVALE ROAD	1987	Yes	Yes	Yes	PLUMBING	
16	INTERVALE ROAD	1988	Yes	No	No	FLOWIDING	
19	INTERVALE ROAD	1988	Yes	No	No		
23	INTERVALE ROAD	1987	Yes	No	No		
8	JAMES AVE	1989	No	INO	INU		
11	JAMES AVE	1989	Yes	Yes	Yes	GROUND	
14	JAMES AVE	1988	Yes	Yes	Yes	GROUND	
17	JAMES AVE	1988	Yes	No	Yes	GROUND	
20	JAMES AVE	1988	Yes	No	Yes	GROUND	
23	JAMES AVE	1986	Yes	Yes	Yes	GROUND	
4	JARVIS CIRCLE	1989		No	No	GROUND	
			Yes	1			
5	JARVIS CIRCLE	1988	Yes	No	No		
12	JARVIS CIRCLE	1988	Yes	No	No		
15	JARVIS CIRCLE	1988	Yes	No	No	CELLIER	NOTHIGIDLE
18	JARVIS CIRCLE	1989	Yes	No	Yes	SEWER	NOT VISIBLE
24	JARVIS CIRCLE	1988	Yes	Yes	Yes	GROUND	
29	JARVIS CIRCLE	1986	Yes	No	No		
32	JARVIS CIRCLE	1989	No				
38	JARVIS CIRCLE	1989	No				
41	JARVIS CIRCLE	1989	Yes	Yes	Yes	GROUND	
44	JARVIS CIRCLE	1988	Yes	Yes	Yes	PLUMBING	
44	JARVIS CIRCLE	1989	No				
50	JARVIS CIRCLE	1989	No				
51	JARVIS CIRCLE	1986	Yes	No	Yes	GROUND	
61	JARVIS CIRCLE	1986	Yes	No	Yes	GROUND	
90	JARVIS CIRCLE	1989	Yes	No	No		
94	JARVIS CIRCLE	1988	Yes	No	No		
97	JARVIS CIRCLE	1989	Yes	No	No		CLEANOUT HIDDEN UNDER BATHROOM
103	JARVIS CIRCLE	1986	Yes	No	No		
120	JARVIS CIRCLE	1988	Yes	No	No		
126	JARVIS CIRCLE	1989	Yes	No	No		
131	JARVIS CIRCLE	1988	Yes	No	No		
134	JARVIS CIRCLE	1988	Yes	No	No		
140	JARVIS CIRCLE	1988	Yes	No	No		
149	JARVIS CIRCLE	1986	Yes	No	No		
152	JARVIS CIRCLE	1988	Yes	No	No		
160	JARVIS CIRCLE	1989	No				
163	JARVIS CIRCLE	1988	Yes	No	No		CLEANOUT STRAIGHT TO BACK, PIPE GOES TO SIDE OF HOUSE
166	JARVIS CIRCLE	1988	Yes	No	No		
171	JARVIS CIRCLE	1986	Yes	No	No		
172	JARVIS CIRCLE	1986	Yes	No	No		



177	JARVIS CIRCLE	1986	Yes	No	No		
178	JARVIS CIRCLE	1988	Yes	No	No		
100/102	JARVIS CIRCLE	1988	Yes	No	No		PIPE NOT VISIBLE
							WASHING MACHINE HOOKED
106/108	JARVIS CIRCLE	1989	Yes	No	No		INTO SEWER CLEANOUT
112/114	JARVIS CIRCLE	1988	Yes	No	No		
54/56	JARVIS CIRCLE	1988	Yes	No	No		
60/62	JARVIS CIRCLE	1989	No				
66/68	JARVIS CIRCLE	1988	Yes	Yes	Yes	SINK	
71/73	JARVIS CIRCLE	1989	Yes	No	Yes		
72/74	JARVIS CIRCLE	1988	Yes	No	Yes	PLUMBING	
78/80	JARVIS CIRCLE	1989	No				
12	JAYNE ROAD	1988	Yes	No	No		
18	JAYNE ROAD	1988	Yes	No	No		
21	JAYNE ROAD	1987	Yes	No	No		
24	JAYNE ROAD	1988	No				
28	JAYNE ROAD	1988	No				
29	JAYNE ROAD	1988	Yes	No	No		
33	JAYNE ROAD	1987	Yes	No	No		CAP HIDDEN
36	JAYNE ROAD	1987	Yes	No	No		
43	JAYNE ROAD	1988	No				
11	JOHN STREET	1986	Yes	No	No		
16	JOHN STREET	1986	Yes	No	No		CLEANOUT BURIED IN GARAGE
22	JOHN STREET	1986	Yes	No	No		
25	JOHN STREET	1986	Yes	No	No		
28	JOHN STREET	1986	Yes	No	No		CLEANOUT IN GARAGE
34	JOHN STREET	1986	Yes	No	No		
37	JOHN STREET	1988	Yes	Yes	Yes	GROUND	
40	JOHN STREET	1986	Yes	No	No		
45	JOHN STREET	1986	Yes	No	No		
50	JOHN STREET	1986	Yes	No	No		
10	JULIA ROAD	1986	Yes	No	No		
11	JULIA ROAD	1986	Yes	No	No		
18	JULIA ROAD	1988	Yes	No	No		
21	JULIA ROAD	1989	No				
24	JULIA ROAD	1989	No				
29	JULIA ROAD	1989	No				
32	JULIA ROAD	1988	Yes	No	No		
11	KEARNEY ROAD	1987	No				
18	KEARNEY ROAD	1987	No				
19	KEARNEY ROAD	1987	Yes	No	No		
25	KEARNEY ROAD	1987	Yes	No	No		
30	KEARNEY ROAD	1987	No		No		



21	KEARNEY ROAD	1987	Vos	No	No		
31 34		1987	Yes	No	No		
37	KEARNEY ROAD KEARNEY ROAD	1987	No Yes	No	No		
40		1987		No			
	KEARNEY ROAD		Yes	No	No		
43	KEARNEY ROAD	1987	No	?	?	?	NO CHOH ADDRESS
49	KEARNEY ROAD	1987	No	-	-	· · ·	NO SUCH ADDRESS
55	KEARNEY ROAD	1987	Yes	No	No		
56	KEARNEY ROAD	1987	No	NI-	NI-		
61 67	KEARNEY ROAD	1987	Yes	No	No		
	KEARNEY ROAD	1987	No				
68	KEARNEY ROAD	1987	No				
11	KENNY STREET	1988	Yes	No	No		
18	KENNY STREET	1988	Yes	No	No		
30	KENNY STREET	1988	Yes	No	No		
34	KENNY STREET	1988	No				
36	KENNY STREET	1988	Yes	No	No		
43	KENNY STREET	1988	Yes	No	No		
49	KENNY STREET	1988	Yes	No	No		CLEANOUT IN GARAGE BELOW FLOOR
56	KENNY STREET	1988	No				
67	KENNY STREET	1988	Yes	No	No		
68	KENNY STREET	1988	No				
8	KERRDALE ROAD	1986	Yes	No	No		
14	KERRDALE ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE
17	KERRDALE ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE
20	KERRDALE ROAD	1986	Yes	No	No		
4	KIMBALL STREET	1988	Yes	No	No		
12	KIMBALL STREET	1988	Yes	No	No		
13	KIMBALL STREET	1986	Yes	No	Yes		
18	KIMBALL STREET	1988	Yes	No	No		
34	KIMBALL STREET	1986	Yes	No	No		
41	KIMBALL STREET	1985	Yes	No	Yes	PLUMBING	
44	KIMBALL STREET	1985	Yes	No	Yes	SEWER	
45	KIMBALL STREET	1985	Yes	No	No		
62	KIMBALL STREET	1986	Yes	No	No		
68	KIMBALL STREET	1985	Yes	No	No		
69	KIMBALL STREET	1986	Yes	No	No		
76	KIMBALL STREET	1985	Yes	No	Yes	GROUND	
10	KINGSBURY STREET	1989	Yes	Yes	Yes	GROUND	
15	KINGSBURY STREET	1985	Yes	No	No		
23	KINGSBURY STREET	1986	Yes	No	No		
33	KINGSBURY STREET	1989	Yes	No	No		CLEANOUT NOT VISIBLE
43	KINGSBURY STREET	1985	Yes	No	No		
46	KINGSBURY STREET	1985	Yes	No	No		



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55	KINGSBURY STREET	1985	Yes	Yes	No			
56	KINGSBURY STREET	1989	Yes	No	No			
61	KINGSBURY STREET	1985	Yes	No	No			
68	KINGSBURY STREET	1985	Yes	No	No			
75	KINGSBURY STREET	1989	Yes	No	No			
76	KINGSBURY STREET	1986	Yes	No	No			
84	KINGSBURY STREET	1985	Yes	No	No			
5	LAKE DRIVE	1988	Yes	No	No			CLEANOUT NOT VISIBLE
11	LAKE DRIVE	1987	Yes	No	No			
16	LAKE DRIVE	1987	Yes	No	No			
19	LAKE DRIVE	1988	No					
23	LAKE DRIVE	1988	No	?	?		?	NO SUCH ADDRESS
24	LAKE DRIVE	1987	Yes	No	No			BACKWATER VALVE
25	LAKE DRIVE	1987	No					
31	LAKE DRIVE	1988	Yes	No	No			CLEANOUT NOT VISIBLE
32	LAKE DRIVE	1987	Yes	No	No			
37	LAKE DRIVE	1987	Yes	No	No			
40	LAKE DRIVE	1987	Yes	No	No			
43	LAKE DRIVE	1988	No					
48	LAKE DRIVE	1988	No					
10	LAKIN STREET	1986	Yes	No	No			WASHING MACHINE HOOKED INTO CLEANOUT
20	LAKIN STREET	1988	Yes	No	No			
25	LAKIN STREET	1986	Yes	No	No			
30	LAKIN STREET	1988	Yes	No	No			
33	LAKIN STREET	1986	Yes	No	No			
42	LAKIN STREET	1988	Yes	No	No			
7	LANCASTER ROAD	1989	Yes	No	No			
10	LANCASTER ROAD	1989	No					
15	LANCASTER ROAD	1986	Yes	No	No			
16	LANCASTER ROAD	1989	Yes	No	Yes		GROUND	
19	LANCASTER ROAD	1988	Yes	No	No			CLEANOUT NOT VISIBLE
21	LANCASTER ROAD	1988	Yes	No	No			
22	LANCASTER ROAD	1988	Yes	No	No			
27	LANCASTER ROAD	1988	Yes	No	No			
28	LANCASTER ROAD	1986	Yes	No	No			
32	LANCASTER ROAD	1986	Yes	No	No			
33	LANCASTER ROAD	1986	Yes	No	No			
41	LANCASTER ROAD	1986	Yes	No	No			
20	LANTERN LANE	1988	No					
27	LANTERN LANE	1987	Yes	No	No			
33	LANTERN LANE	1988	Yes	No	No			
39	LANTERN LANE	1987	Yes	No	No			
40	LANTERN LANE	1988	No	.,0	.,,			
→ U	LATITICAL LATIN	1,700	140	1	1	L	l .	



48	LANTEDNIJANE	1987	Vos	No	No		
	LANTERN LANE		Yes	No	No		
55	LANTERN LANE	1987	Yes	No	No		
56	LANTERN LANE	1988	Yes	No	No		
60	LANTERN LANE	1987	Yes	No	No		
4	LARKSPUR ROAD	1987	Yes	No	No		
5	LARKSPUR ROAD	1988	No				
11	LARKSPUR ROAD	1986	Yes	No	No		
11	LARKSPUR ROAD	1988	No				
12	LARKSPUR ROAD	1988	Yes	No	No		
14	LARKSPUR ROAD	1988	Yes	No	No		
15	LARKSPUR ROAD	1988	No				
15	LARKSPUR ROAD	1988	No				
14	LASALLE ROAD	1988	Yes	No	No		
15	LASALLE ROAD	1986	No				
18	LASALLE ROAD	1988	Yes	No	No		
21	LASALLE ROAD	1986	Yes	No	No		
24	LASALLE ROAD	1986	Yes	No	No		
25	LASALLE ROAD	1986	No		No		
30	LASALLE ROAD	1986	Yes	No	No		
31	LASALLE ROAD	1986	Yes	No	No		
36	LASALLE ROAD	1986	Yes	No	No		
41	LASALLE ROAD	1986	Yes	No	No		
42	LASALLE ROAD	1988	Yes	No	No		
2	LAUREL DRIVE	1986	Yes	No	No		
5	LAUREL DRIVE	1986	Yes	No	No		
12	LAUREL DRIVE	1986	Yes	No	No		
13	LAUREL DRIVE	1985	Yes	Yes	Yes	SEWER	
15	LAUREL DRIVE	1985	Yes	No	No		
16	LAUREL DRIVE	1985	Yes	No	No		
16	LAUREL DRIVE	1985	Yes	No	No		
17	LAUREL DRIVE	1986	Yes	No	No		
20	LAUREL DRIVE	1986	Yes	Yes	Yes	GROUND	
21	LAUREL DRIVE	1985	Yes	No	No		
21	LAUREL DRIVE	1986	Yes	No	No		SINK HOOKED INTO CLEANOUT
26	LAUREL DRIVE	1985	Yes	No	No		
27	LAUREL DRIVE	1986	Yes	No	No		
31	LAUREL DRIVE	1985	Yes	No	No		+
35	LAUREL DRIVE	1986	Yes	No	No		+
36	LAUREL DRIVE	1991	No	.,,	.,,		+
40	LAUREL DRIVE	1985	Yes	No	No		+
41	LAUREL DRIVE	1989	Yes	Yes	Yes	GROUND	+
45	LAUREL DRIVE	1986	Yes	No	No	GROOM	+
46	LAUREL DRIVE	1985	Yes	No	No		CLEANOUT BURIED
40	LAUNEL DRIVE	1303	162	INU	NO		CLEANOUT BURIED



50	LAUREL DRIVE	1985	Yes	No	No		
51	LAUREL DRIVE	1986	Yes	No	No		
55	LAUREL DRIVE	1986	Yes	Yes	Yes	GROUND	PUMP USED ONLY ON HEAVY RAINY DAYS
60	LAUREL DRIVE	1986	Yes	No	No		
61	LAUREL DRIVE	1985	Yes	No	No		
66	LAUREL DRIVE	1985	Yes	No	No		
69	LAUREL DRIVE	1991	Yes	No	No		
72	LAUREL DRIVE	1986	Yes	No	No		
75	LAUREL DRIVE	1989	Yes	No	No		
76	LAUREL DRIVE	1991	No				
80	LAUREL DRIVE	1986	Yes	No	No		
86	LAUREL DRIVE	1985	Yes	No	No		
90	LAUREL DRIVE	1985	Yes	No	No		
91	LAUREL DRIVE	1985	Yes	No	Yes	GROUND	
94	LAUREL DRIVE	1985	Yes	No	No		
98	LAUREL DRIVE	1985	Yes	No	No		
103	LAUREL DRIVE	1986	Yes	Yes	Yes	GROUND	
116	LAUREL DRIVE	1986	Yes	No	No		
117	LAUREL DRIVE	1986	Yes	No	No		
120	LAUREL DRIVE	1986	Yes	Yes	Yes	GROUND	
121	LAUREL DRIVE	1986	Yes	No	No		CLEANOUT BURIED
127	LAUREL DRIVE	1989	Yes	No	No		CLEANOUT NOT VISIBLE
128	LAUREL DRIVE	1986	Yes	No	No		
133	LAUREL DRIVE	1986	Yes	No	No		CLEANOUT IN GARAGE
134	LAUREL DRIVE	1985	Yes	No	No		
139	LAUREL DRIVE	1985	Yes	No	No		
140	LAUREL DRIVE	1985	Yes	No	No		
144	LAUREL DRIVE	1986	Yes	No	No		
145	LAUREL DRIVE	1986	Yes	No	No		
149	LAUREL DRIVE	1986	Yes	No	No		
150	LAUREL DRIVE	1985	Yes	No	No		
154	LAUREL DRIVE	1985	Yes	No	No		
155	LAUREL DRIVE	1986	Yes	No	No		
158	LAUREL DRIVE	1991	No				
159	LAUREL DRIVE	1986	Yes	No	No		
163	LAUREL DRIVE	1989	Yes	No	No		
164	LAUREL DRIVE	1985	Yes	No	Yes	GROUND	
169	LAUREL DRIVE	1986	No				
172	LAUREL DRIVE	1985	Yes	No	No		
173	LAUREL DRIVE	1985	Yes	Yes	No		
180	LAUREL DRIVE	1986	Yes	Yes	Yes	SEWER	
10	LAWRENCE ROAD	1989	Yes	No	No		
11	LAWRENCE ROAD	1988	Yes	No	No		OUTSIDE YARD MANHOLE



12	LAWTON ROAD	1986	Yes	No	No			
15	LAWTON ROAD	1986	Yes	Yes	Yes		GROUND	
16	LAWTON ROAD	1986	Yes	No	No		CHOCHE	
16	LAWTON ROAD	1988	Yes	No	No			
21	LAWTON ROAD	1986	Yes	No	No			
22	LAWTON ROAD	1988	Yes	No	No			
25	LAWTON ROAD	1986	Yes	Yes	Yes			
26	LAWTON ROAD	1986	Yes	No	Yes		SINK	
33	LAWTON ROAD	1986	Yes	No	Yes		GROUND	
36	LAWTON ROAD	1986	Yes	No	No		GROONE	
37	LAWTON ROAD	1986	Yes	Yes	Yes		GROUND	
39	LAWTON ROAD	1988	Yes	No	No		GROONE	
42	LAWTON ROAD	1988	Yes	No	No			
45	LAWTON ROAD	1986	Yes	No	No			
46	LAWTON ROAD	1989	Yes	Yes	Yes		GROUND	
50	LAWTON ROAD	1988	Yes	No	No		GROOND	
51	LAWTON ROAD	1986	Yes	No	Yes		GROUND	
54	LAWTON ROAD	1988	Yes	No	No		GNOOND	CLEANOUT NOT VISIBLE
57	LAWTON ROAD	1986	Yes	No	No			CLEANOOT NOT VISIBLE
58	LAWTON ROAD	1986	Yes	No	No			
63	LAWTON ROAD	1986	Yes	No	No			
66	LAWTON ROAD	1986	Yes	No	No			
67	LAWTON ROAD	1988	Yes	No	No			
72	LAWTON ROAD	1989	Yes	No	No			
75	LAWTON ROAD	1989	No	INO	INO			+
75 76	LAWTON ROAD	1989	Yes	Yes	Yes			NOT CONNECTED
81	LAWTON ROAD	1986	Yes	No	Yes			NOT CONNECTED
85	LAWTON ROAD	1989	No	INO	162			+
88	LAWTON ROAD			No	No			CLEANOUT NOT VISIBLE
94		1988	Yes	No	No			CLEANOUT NOT VISIBLE
103	LAWTON ROAD LAWTON ROAD	1986 1989	No No					+
20	LEE ROAD	1986	Yes	No	No			+
21	LEE ROAD	1986	Yes	No	No			+
26	LEE ROAD	1986	Yes	No	No			+
32	LEE ROAD							+
33	LEE ROAD	1986 1986	Yes	No No	No No			+
38	LEE ROAD	1986	Yes					
			Yes	No	No			
41 44	LEE ROAD LEE ROAD	1986 1986	Yes	No No	No No			
44	LEE ROAD	1986	Yes					
			Yes	No	No			CLEANOLIT LINDED STAIRS
50 55	LEE ROAD	1986	Yes	No	No			CLEANOUT UNDER STAIRS
	LEE ROAD	1986	Yes	No	No			
56	LEE ROAD	1986	Yes	No	No	 		
61	LEE ROAD	1986	Yes	No	No			



62	LEE ROAD	1986	Yes	No	No		
4	LEWIS STREET	1988	No				
5	LEWIS STREET	1988	Yes	No	No		
10	LEWIS STREET	1987	Yes	No	No		
12	LEWIS STREET	1986	Yes	No	No		
13	LEWIS STREET	1986	Yes	No	No		
15	LEWIS STREET	1987	Yes	No	No		
16	LEWIS STREET	1987	Yes	No	No		
21	LEWIS STREET	1987	Yes	No	No		
22	LEWIS STREET	1987	Yes	No	No		
27	LEWIS STREET	1987	Yes	No	No		
33	LEWIS STREET	1987	Yes	No	No		
38	LEWIS STREET	1988	Yes	No	No		
39	LEWIS STREET	1987	No				
39	LEWIS STREET	1994	No				DRIVEWAY DRAIN
44	LEWIS STREET	1990	Yes	No	No		
45	LEWIS STREET	1987	Yes	No	No		
45	LEWIS STREET	1994	No				DRIVEWAY DRAIN
50	LEWIS STREET	1987	No				
60	LEWIS STREET	1987	Yes	No	No		
5	LEXINGTON AVE	1986	?	,	?	?	NO SUCH ADDRESS?
7	LEXINGTON AVE	1986	No				
8	LEXINGTON AVE	1985	Yes	No	Yes	GROUND	
16	LEXINGTON AVE	1985	Yes	No	No		
17	LEXINGTON AVE	1985	Yes	No	No		
21	LEXINGTON AVE	1986	Yes	Yes	Yes	PLUMBING	
24	LEXINGTON AVE	1986	Yes	No	No		
31	LEXINGTON AVE	1986	Yes	Yes	Yes		
34	LEXINGTON AVE	1986	No				
41	LEXINGTON AVE	1985	Yes	No	No		
42	LEXINGTON AVE	1985	Yes	No	No		CLEANOUT BURIED
54	LEXINGTON AVE	1986	Yes	No	No		
55	LEXINGTON AVE	1986	Yes	No	No		CLEANOUT BURIED
56	LEXINGTON AVE	1986	No				
61	LEXINGTON AVE	1985	Yes	No	Yes	PLUMBING	
64	LEXINGTON AVE	1986	Yes	No	No		
67	LEXINGTON AVE	1985	Yes	No	No		
72	LEXINGTON AVE	1986	Yes	No	No		
73	LEXINGTON AVE	1986	No				
78	LEXINGTON AVE	1986	Yes	No	No		
79	LEXINGTON AVE	1986	Yes	No	No		
84	LEXINGTON AVE	1986	Yes	No	No		
88	LEXINGTON AVE	1986	Yes	No	No		
101	LEXINGTON AVE	1985	Yes	No	No		



102	LEVINCTON AVE	1005	V	N-	NI-		
102	LEXINGTON AVE	1985	Yes	No	No		
107	LEXINGTON AVE	1985	Yes	No	No		
115	LEXINGTON AVE	1985	No				
120	LEXINGTON AVE	1986	Yes	No	No		
127	LEXINGTON AVE	1985	Yes	No	No		
128	LEXINGTON AVE	1986	Yes	No	No		
149	LEXINGTON AVE	1989	Yes	No	No		
154	LEXINGTON AVE	1989	Yes	No	No		
157	LEXINGTON AVE	1989	Yes	No	No		
160	LEXINGTON AVE	1989	Yes	No	No		
32	LINCOLN STREET	1986	Yes	No	No		
43	LINCOLN STREET	1985	Yes	No	No		
44	LINCOLN STREET	1985	Yes	No	No		
54	LINCOLN STREET	1985	Yes	No	No		
59	LINCOLN STREET	1985	Yes	No	No		
78	LINCOLN STREET	1985	Yes	No	No		
82	LINCOLN STREET	1985	Yes	No	Yes	SEWER	
86	LINCOLN STREET	1986	Yes	No	No		
92	LINCOLN STREET	1986	Yes	No	No		CLEANOUT BURIED UNDER FLOOP
98	LINCOLN STREET	1985	Yes	No	Yes	GROUND	
104	LINCOLN STREET	1986	Yes	No	No		
114	LINCOLN STREET	1986	Yes	No	No		
115	LINCOLN STREET	1986	Yes	No	Yes	GROUND	
123	LINCOLN STREET	1989	Yes	Yes	Yes	GROUND	
129	LINCOLN STREET	1985	Yes	No	Yes	GROUND	
132	LINCOLN STREET	1985	Yes	No	Yes	GROUND	
137	LINCOLN STREET	1985	Yes	No	No		
138	LINCOLN STREET	1985	Yes	No	No		
143	LINCOLN STREET	1985	Yes	No	Yes	GROUND	
146	LINCOLN STREET	1986	Yes	Yes	No		CLEANOUT UNDER FLOOR
37/39	LINCOLN STREET	1985	Yes	No	No		
38/40	LINCOLN STREET	1985	Yes	No	No		
48/50	LINCOLN STREET	1986	Yes	No	No		
6	LINDBERGH AVE	1989	Yes	No	Yes	GROUND	
11	LINDBERGH AVE	1988	Yes	No	No		
12	LINDBERGH AVE	1989	Yes	No	No		
18	LINDBERGH AVE	1989	Yes	No	No		
24	LINDBERGH AVE	1988	Yes	No	No		
25	LINDBERGH AVE	1988	Yes	No	No		
32	LINDBERGH AVE	1988	Yes	No	No		
41	LINDBERGH AVE	1986	Yes	No	No		
44	LINDBERGH AVE	1989	Yes	Yes	Yes	GROUND	CLEANOUT HIDDEN BEHIND SHELVES



51	LINDBERGH AVE	1989	No					
52	LINDBERGH AVE	1986	Yes	Yes	Yes		GROUND	
56	LINDBERGH AVE	1986	Yes	No	No			
64	LINDBERGH AVE	1988	Yes	No	No			
65	LINDBERGH AVE	1988	Yes	No	No			
70	LINDBERGH AVE	1988	Yes	No	No			CLEANOUT BURIED UNDER CONCRETE GARAGE
71	LINDBERGH AVE	1989	Yes	No	Yes		GROUND	CONCRETE GARAGE
76	LINDBERGH AVE	1986	Yes	No	Yes		GROUND	
77	LINDBERGH AVE	1988	Yes	No	No		GIGGIAD	
84	LINDBERGH AVE	1986	Yes	No	No			
88	LINDBERGH AVE	1986	Yes	No	No			
94	LINDBERGH AVE	1986	Yes	No	Yes		GROUND	
102	LINDBERGH AVE	1988	Yes	Yes	Yes		GROUND	
103	LINDBERGH AVE	1989	Yes	Yes	Yes		GROUND	
108	LINDBERGH AVE	1988	Yes	No	No		GROOND	CLEANOUT OPEN, OPEN CAP USED TO DRAIN WATER
109	LINDBERGH AVE	1988	No					OSED TO DIVAIN WATER
116	LINDBERGH AVE	1986	Yes	Yes	Yes		GROUND	
117	LINDBERGH AVE	1989	No	163	163		GIGGIAD	
122	LINDBERGH AVE	1988	Yes	No	No			CLEANOUT NOT VISIBLE
130	LINDBERGH AVE	1989	No	110	INO			CLEANOOT NOT VISIBLE
131	LINDBERGH AVE	1989	Yes	Yes	Yes		GROUND	CLEANOUT NOT VISIBLE
135	LINDBERGH AVE	1988	Yes	No	No		GIGGIAD	CELTINGOT NOT VISIBLE
136	LINDBERGH AVE	1300	Yes	Yes	Yes		GROUND	
143	LINDBERGH AVE	1988	No	103	103		GROOND	
147	LINDBERGH AVE	1988	Yes	Yes	Yes		GROUND	
148	LINDBERGH AVE	1986	Yes	No	No		GINOOND	CLEANOUT BURIED
165	LINDBERGH AVE	1986	Yes	No	No			CELANOOT BONIED
166	LINDBERGH AVE	1986	Yes	No	No			CLEANOUT BURIED
171	LINDBERGH AVE	1988	Yes	No	No			CELANOOT BONIED
177	LINDBERGH AVE	1988	Yes	No	No			
178	LINDBERGH AVE	1986	Yes	No	No			
184	LINDBERGH AVE	1989	No	140	140			
185	LINDBERGH AVE	1986	Yes	No	No			CLEANOUT BURIED
189	LINDBERGH AVE	1988	Yes	No	No	+		CELAIVOUT BUILLED
190	LINDBERGH AVE	1986	Yes	No	No			
193	LINDBERGH AVE	1988	Yes	Yes	No	+		
194	LINDBERGH AVE	1988	Yes	No	No			
202	LINDBERGH AVE	1986	Yes	No	No			PIPE BEHIND PANELS
203	LINDBERGH AVE	1988	No	140	140			THE BEINING FAMELS
11	LINDEN STREET	2008	Yes	Yes				
20	LINDEN STREET	1985	Yes	No	No			
20	LINDEN STREET	2008	Yes	No	140			



21	LINDEN STREET	1985	Yes	No	No			
21	LINDEN STREET	2008	Yes	No	140			
26	LINDEN STREET	1986	Yes	No	No			
26	LINDEN STREET	2008	Yes	No	140			
31	LINDEN STREET	1985	Yes	No	No			
31	LINDEN STREET	2008	No	NO	INO			
32	LINDEN STREET	1986	Yes	No	No			
32	LINDEN STREET	2008	No	NO	INO			
35	LINDEN STREET	2008	Yes	No				
37	LINDEN STREET	1986	Yes	No	No			
37	LINDEN STREET	2008	No	NO	INO			
40	LINDEN STREET	1986		No	No			
40		2008	Yes	INO	INO			
	LINDEN STREET		Yes	No	No			
48	LINDEN STREET	1986 2008	Yes	No	No			
48 49	LINDEN STREET LINDEN STREET	1985	Yes Yes	No No	No			
					INO			
49	LINDEN STREET	2008	Yes	No	NI-			
55	LINDEN STREET	1985	Yes	No	No			
55	LINDEN STREET	2008	No					
58	LINDEN STREET	2008	No	NI.	NI.			
59	LINDEN STREET	1985	Yes	No	No			
59	LINDEN STREET	2008	Yes	No	2		2	NO CHCH ADDDESCO
60	LINDEN STREET	1989	No	?	?		?	NO SUCH ADDRESS?
63	LINDEN STREET	1985	Yes	No	No			
63	LINDEN STREET	2008	Yes	No				
64	LINDEN STREET	1991	Yes	No	No			
64	LINDEN STREET	2008	Yes	No				
67	LINDEN STREET	1985	Yes	No	No			
67	LINDEN STREET	2008	No					
70	LINDEN STREET	1986	Yes	No	No			
70	LINDEN STREET	2008	No					
73	LINDEN STREET	1991	Yes	No	No			
73	LINDEN STREET	2008	No					
79	LINDEN STREET	1989	Yes	No	No			
79	LINDEN STREET	2008	Yes	No			01:	
80	LINDEN STREET	1985	Yes	Yes	Yes		SINK	
80	LINDEN STREET	2008	Yes	Yes	Yes	1	HOSED TO YARD	
90	LINDEN STREET	1985	Yes	Yes	Yes		GROUND	
90	LINDEN STREET	2008	No					
95	LINDEN STREET	1986	Yes	No	Yes			BOTTOM OF CLEANOUT OPEN
95	LINDEN STREET	2008	No					
98	LINDEN STREET	1985	Yes	Yes	Yes		GROUND	
98	LINDEN STREET	2008	No					
99	LINDEN STREET	1986	Yes	No	Yes		GROUND	



00	LINDEN CEREET	2000	V	V	V		VADD	
99	LINDEN STREET	2008	Yes	Yes	Yes	1	YARD	
109	LINDEN STREET	2008	Yes	No				
109	LINDEN STREET		Yes	No	No			SPLIT LEVEL
110	LINDEN STREET	1985	Yes	Yes	Yes		GROUND	
110	LINDEN STREET	2008	Yes	Yes	Yes	1	HOSED TO YARD	
117	LINDEN STREET	1991	No					
120	LINDEN STREET	1991	No					
120	LINDEN STREET	2008	Yes	No				
129	LINDEN STREET	1985	Yes	No	No			SLAB
129	LINDEN STREET	2008	Yes					
130	LINDEN STREET	1985	Yes	No	No			SPLIT LEVEL, OPEN PIT BELOW WATER METER
130	LINDEN STREET	2008	Yes	Yes	Yes	1	YARD	
135	LINDEN STREET	1985	Yes	No	No			
135	LINDEN STREET	2008	Yes					
208	LINDEN STREET	2008	Yes					HOME ON SLAB
213	LINDEN STREET	2008	Yes					HOME ON SLAB
214	LINDEN STREET	2008	Yes					HOME ON SLAB
223	LINDEN STREET	2008	Yes					HOME ON SLAB
229	LINDEN STREET	2008	Yes					HOME ON SLAB
232	LINDEN STREET	2008	Yes					HOME ON SLAB
237	LINDEN STREET	2008	Yes					HOME ON SLAB
243	LINDEN STREET	2008	Yes					HOME ON SLAB
247	LINDEN STREET	2008	Yes					HOME ON SLAB
253	LINDEN STREET	2008	Yes					HOME ON SLAB
261	LINDEN STREET	2008	Yes					HOME ON SLAB
265	LINDEN STREET	2008	Yes					HOME ON SLAB
269	LINDEN STREET	2008	Yes					HOME ON SLAB
289	LINDEN STREET	2008	Yes					HOME ON SLAB
296	LINDEN STREET	2008	Yes					HOME ON SLAB
297	LINDEN STREET	2008	Yes					HOME ON SLAB
?	LINDEN STREET	2008	Yes					
?	LINDEN STREET	2008	Yes					
?	LINDEN STREET	2008	Yes					
?	LINDEN STREET	2008	Yes					
?	LINDEN STREET	2008	No					MAINTENANCE MAN SAID SOME HAD PUMPS BUT TENANTS NEED 48HRS NOTICE TO INSPECT AND PUMPS WERE IN CRAWL SPACES
282-286	LINDEN STREET	2008	Yes		No			HOME ON SLAB
33/35	LINDEN STREET	1985	Yes	No	No			
56/58	LINDEN STREET	1985	Yes	No	No			
74/76	LINDEN STREET	1985	Yes	Yes	Yes		SINK	



74-76	LINDEN STREET	2008	No					
11	LIVINGSTON CIRCLE	1986	Yes	Yes	No			
12	LIVINGSTON CIRCLE	1986	Yes	No	No			
20	LIVINGSTON CIRCLE	1986	Yes	No	No			
29	LIVINGSTON CIRCLE	1986	Yes	No	No			
30	LIVINGSTON CIRCLE	1988	Yes	No	No			
35	LIVINGSTON CIRCLE	1986	Yes	No	No			
40	LIVINGSTON CIRCLE	1986	Yes	No	No			
45	LIVINGSTON CIRCLE	1989	Yes	No	No			
48	LIVINGSTON CIRCLE	1986	Yes	No	No			
53	LIVINGSTON CIRCLE	1986	Yes	No	No			
58	LIVINGSTON CIRCLE	1986	Yes	No	No			
59	LIVINGSTON CIRCLE	1986	Yes	No	No			
65	LIVINGSTON CIRCLE	1986	Yes	No	No			
71	LIVINGSTON CIRCLE	1988	Yes	No	No			
79	LIVINGSTON CIRCLE	1989	No	-	_			
86	LIVINGSTON CIRCLE	1986	Yes	No	No			
89	LIVINGSTON CIRCLE	1989	Yes	No	No			
96	LIVINGSTON CIRCLE	1988	Yes	No	No			
97	LIVINGSTON CIRCLE	1988	Yes	No	No			
99	LIVINGSTON CIRCLE	1988	Yes	No	No			
105	LIVINGSTON CIRCLE	1986	Yes	No	No			
113	LIVINGSTON CIRCLE	1986	Yes	No	No			
119	LIVINGSTON CIRCLE	1986	Yes	No	No			
127	LIVINGSTON CIRCLE	1989	Yes	No	No			
132	LIVINGSTON CIRCLE	1989	No					
141	LIVINGSTON CIRCLE	1988	Yes	No	No			
146	LIVINGSTON CIRCLE	1986	Yes	No	No			
147	LIVINGSTON CIRCLE	1986	Yes	No	No			
216	LIVINGSTON CIRCLE	1986	Yes	No	No			
26	LOCUST LANE	1988	Yes	No	No			
27	LOCUST LANE	1987	No					
41	LOCUST LANE	1987	Yes	No	No			CLEANOUT UNDER STAIRWELL IN CLOSET
44	LOCUST LANE	1987	Yes	No	No			
59	LOCUST LANE	1987	Yes	No	No			CAP INSIDE CLOSET, CLEANOUT OUTSIDE HOUSE
60	LOCUST LANE	1987	Yes	No	No			CLEANOUT NOT VIISIBLE
74	LOCUST LANE	1987	Yes	No	No	1		CLEANOUT NOT VIISIBLE
80	LOCUST LANE	1987	Yes	No	No			CLEANOUT IN CLOSET
89	LOCUST LANE	1988	No					322
94	LOCUST LANE	1988	No					
97	LOCUST LANE	1987	Yes	Yes	Yes		SINK	CAP NOT VISIBLE, NO SET UP FOR SUMP PUMP



107	LOCUST LANE	1987	Yes	No	No			
108	LOCUST LANE	1987	Yes	No	No			
119	LOCUST LANE	1987	No	INO	NO			
120	LOCUST LANE	1987	Yes	No	No			
130	LOCUST LANE	1987		INO	NO	+		
131	LOCUST LANE	1988	No	No	No			
131			Yes	No	No			
	LOIS LANE	1988	No			1		
15	LOIS LANE	1988	No		+			
18	LOIS LANE	1988	Yes	No	No			
21	LOIS LANE	1988	No					
24	LOIS LANE	1988	No					
29	LOIS LANE	1987	Yes	No	No			
32	LOIS LANE	1988	Yes	No	No			CLEANOUT HIDDEN UNDER RUG
14	LONGACRE ROAD	1988	Yes	No	No			
21	LONGACRE ROAD	1989	Yes	No	No			
22	LONGACRE ROAD	1985	Yes	Yes	Yes		SEWER	
23	LONGACRE ROAD	1986	Yes	No	Yes		PLUMBING	
27	LONGACRE ROAD	1988	Yes	No	Yes		PLUMBING	
30	LONGACRE ROAD	1989	No					
33	LONGACRE ROAD	1989	No					
44	LONGACRE ROAD	1986	Yes	Yes	Yes		SEWER	
52	LONGACRE ROAD	1986	No	163	163		SEWER	
58	LONGACRE ROAD	1988	Yes	Yes	Yes		GROUND	
4	LONGFELLOW ROAD	1989	Yes	No	No		GROOND	
5	LONGFELLOW ROAD	1985	Yes	No	No			
11	LONGFELLOW ROAD	1986	Yes	No	No			
12	LONGFELLOW ROAD	1989	No	INO	INU			
17	LONGFELLOW ROAD	1989	Yes	No	No	+		
18		1986			No			
22	LONGFELLOW ROAD	1986	Yes	No			CDOLIND	
	LONGFELLOW ROAD		Yes	Yes	Yes		GROUND	
23	LONGFELLOW ROAD	1986	Yes	No	No	1		
24	LONGFELLOW ROAD	1988	Yes	No	No	1		
28	LONGFELLOW ROAD	1986	No	<u> </u>	N			
29	LONGFELLOW ROAD	1986	Yes	No	No			
30	LONGFELLOW ROAD	1986	Yes	No	No			
34	LONGFELLOW ROAD	1986	No	Ş	?		?	NO SUCH ADDRESS
35	LONGFELLOW ROAD	1989	No	1				
36	LONGFELLOW ROAD	1985	Yes	No	No			
41	LONGFELLOW ROAD	1985	Yes	Yes	No			CLEANOUT CONNECTED TO ILLEGAL OPEN BACK WATER VALVE
42	LONGFELLOW ROAD	1989	Yes	No	No			
45	LONGFELLOW ROAD	1986	Yes	Yes	No			



48	LONGFELLOW ROAD	1989	Yes	No	No		
51	LONGFELLOW ROAD	1986	Yes	No	No		
54	LONGFELLOW ROAD	1986	Yes	No	No		
58	LONGFELLOW ROAD	1986	No	INO	INO		
82	LONGFELLOW ROAD	1986	No				
3	LUDWIG ROAD	1986	Yes	No	No		
5	LUDWIG ROAD	1988	No	INO	INO		
8	LUDWIG ROAD	1988	No				
16	LUDWIG ROAD	1988	No				
11/15	LUDWIG ROAD	1988	Yes	No	No		
4	LYNN ROAD	1986	Yes	No	No		
11	LYNN ROAD	1986	Yes	No	No		
14	LYNN ROAD	1986	Yes	No	No		
17	LYNN ROAD	1986	Yes	No	No		
23	LYNN ROAD	1986	Yes	No	No		
30	LYNN ROAD	1986	Yes	No	No		
36	LYNN ROAD	1986	Yes	No	No		
44	LYNN ROAD	1986	Yes	No	No		
14	MACKINTOSH ROAD	1986	Yes	No	No		
15	MACKINTOSH ROAD	1989	Yes	No	No		
20	MACKINTOSH ROAD	1986	Yes	No	No		
23	MACKINTOSH ROAD	1986	Yes	No	No		
26	MACKINTOSH ROAD	1986	Yes	No	No		
27	MACKINTOSH ROAD	1986	Yes	No	No		
33	MACKINTOSH ROAD	1989	Yes	No	No		
34	MACKINTOSH ROAD	1986	Yes	No	No		
42	MACKINTOSH ROAD	1986	Yes	No	No		
48	MACKINTOSH ROAD	1986	Yes	No	Yes	GROUND	
54	MACKINTOSH ROAD	1986	Yes	Yes	Yes	GROUND	
67	MACKINTOSH ROAD	1986	Yes	No	No		
68	MACKINTOSH ROAD	1986	Yes	No	No		
73	MACKINTOSH ROAD	1989	No				
74	MACKINTOSH ROAD	1986	Yes	Yes	Yes	GROUND	
79	MACKINTOSH ROAD	1986	Yes	No	No		
80	MACKINTOSH ROAD	1986	Yes	No	No		
85	MACKINTOSH ROAD	1986	Yes	No	No		
86	MACKINTOSH ROAD	1986	Yes	No	No		
93	MACKINTOSH ROAD	1989	No				
94	MACKINTOSH ROAD	1986	Yes	Yes	Yes	GROUND	
99	MACKINTOSH ROAD	1986	Yes	No	No		
100	MACKINTOSH ROAD	1989	Yes	No	No		
12	MALLARD ROAD	1988	Yes	No	No		
15	MALLARD ROAD	1987	Yes	No	No		
20	MALLARD ROAD	1988	Yes	No	No	_	



25	MALLARD ROAD	1987	Yes	No	No		
26	MALLARD ROAD	1988	No	INU	INU		
33	MALLARD ROAD	1987	Yes	No	No		
36	MALLARD ROAD	1988	Yes	No	No		
39	MALLARD ROAD	1988	No	INU	INU		
14	MANN AVE	1986	Yes	No	No		
17	MANN AVE	1986	Yes	No	No		
20	MANN AVE	1988	Yes	No	No		
39	MANN AVE	1986	Yes	No	No		
45	MANN AVE	1988	Yes	No	No		
46	MANN AVE	1988		No	No		
			Yes				
51	MANN AVE	1988	Yes	No	No		
53	MANN AVE	1986	No	NI.	No		
57	MANN AVE	1988	Yes	No	No		
62	MANN AVE	1988	Yes	No	No		
65	MANN AVE	1986	Yes	No	No		
70	MANN AVE	1988	Yes	No	No		
73	MANN AVE	1986	Yes	No	No		
80	MANN AVE	1988	No				NOT CONNECTED TO SEWER
83	MANN AVE	1988	No				NOT CONNECTED TO SEWER
5	MANNING STREET	1985	Yes	Yes	No		
6	MANNING STREET	1985	Yes	No	No		
10	MANNING STREET	1986	Yes	No	No		
16	MANNING STREET	1985	Yes	No	No		
17	MANNING STREET	1985	Yes	No	No		
21	MANNING STREET	1986	Yes	No	No		
25	MANNING STREET	1989	No				
26	MANNING STREET	1985	Yes	No	Yes	GROUND	
27	MANNING STREET	1985	Yes	No	Yes	SEWER	
32	MANNING STREET	1986	Yes	No	Yes	SEWER	
33	MANNING STREET	1986	Yes	No	Yes	OTHER	
38	MANNING STREET	1989	Yes	No	No		
53	MANNING STREET	1986	Yes	No	No		
58	MANNING STREET	1986	Yes	No	No		
73	MANNING STREET	1985	Yes	No	Yes	GROUND	
80	MANNING STREET	1985	No				
90	MANNING STREET	1989	Yes	No	No		
96	MANNING STREET	1985	Yes	No	No		
97	MANNING STREET	1986	Yes	No	No		
101	MANNING STREET	1986	Yes	No	No		
102	MANNING STREET	1986	Yes	No	No		
107	MANNING STREET	1988	Yes	No	No		
108	MANNING STREET	1985	Yes	No	No		
114	MANNING STREET	1986	Yes	No	No		



117 MANNING STREET 1988 Yes No 123 MANNING STREET 1986 No 129 MANNING STREET 1986 Yes No 130 MANNING STREET 1986 Yes No 136 MANNING STREET 1988 Yes No 139 MANNING STREET 1986 Yes No 142 MANNING STREET 1986 Yes Yes 146 MANNING STREET 1989 Yes Yes 149 MANNING STREET 1986 Yes No 150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	No No No No No Yes SEWER Yes GROUND No Yes PLUMBING
129 MANNING STREET 1986 Yes No 130 MANNING STREET 1986 Yes No 136 MANNING STREET 1988 Yes No 139 MANNING STREET 1986 Yes No 142 MANNING STREET 1986 Yes Yes 146 MANNING STREET 1989 Yes Yes 149 MANNING STREET 1986 Yes No 150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	No No No SEWER Yes GROUND No Yes PLUMBING PLUMBING
130 MANNING STREET 1986 Yes No 136 MANNING STREET 1988 Yes No 139 MANNING STREET 1986 Yes No 142 MANNING STREET 1986 Yes Yes 146 MANNING STREET 1989 Yes Yes 149 MANNING STREET 1986 Yes No 150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	No No No SEWER Yes GROUND No Yes PLUMBING PLUMBING
136 MANNING STREET 1988 Yes No 139 MANNING STREET 1986 Yes No 142 MANNING STREET 1986 Yes Yes 146 MANNING STREET 1989 Yes Yes 149 MANNING STREET 1986 Yes No 150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	No No No SEWER Yes GROUND No PLUMBING
139 MANNING STREET 1986 Yes No 142 MANNING STREET 1986 Yes Yes 146 MANNING STREET 1989 Yes Yes 149 MANNING STREET 1986 Yes No 150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	No SEWER Yes GROUND No PLUMBING
142 MANNING STREET 1986 Yes Yes 146 MANNING STREET 1989 Yes Yes 149 MANNING STREET 1986 Yes No 150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	Yes SEWER Yes GROUND No PLUMBING
146 MANNING STREET 1989 Yes Yes 149 MANNING STREET 1986 Yes No 150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	Yes GROUND No Yes PLUMBING
149 MANNING STREET 1986 Yes No 150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	No Yes PLUMBING
150 MANNING STREET 1986 Yes Yes 155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	Yes PLUMBING
155 MANNING STREET 1988 Yes No 156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	
156 MANNING STREET 1988 Yes Yes 163 MANNING STREET 1986 Yes No	No N
163 MANNING STREET 1986 Yes No	Yes OTHER
	No OTHER
179 MANNING STREET 1986 Yes No	No No
179 MANNING STREET 1986 Yes No 185 MANNING STREET 1988 Yes No	No No
191 MANNING STREET 1986 Yes No	No No
192 MANNING STREET 1989 No	NO
197 MANNING STREET 1986 Yes No	No
198 MANNING STREET 1986 Yes No	Yes SINK
201 MANNING STREET 1986 Yes No	No Sink
202 MANNING STREET 1986 Yes No	No No
222 MANNING STREET 1988 Yes No	No No
223 MANNING STREET 1989 Yes No	No No
228 MANNING STREET 1989 No	NO I
229 MANNING STREET 1986 Yes No	No
232 MANNING STREET 1989 Yes No	No No
233 MANNING STREET 1986 Yes No	No No
236 MANNING STREET 1988 No	NO I
239 MANNING STREET 1986 Yes No	No
246 MANNING STREET 1986 Yes No	No No
247 MANNING STREET 1986 Yes No	No No
251 MANNING STREET 1988 Yes No	No No
252 MANNING STREET 1986 No	
258 MANNING STREET 1988 No	
261 MANNING STREET 1986 Yes No	No
267 MANNING STREET 1986 Yes No	No No
268 MANNING STREET 1988 No	
273 MANNING STREET 1986 Yes No	No
274 MANNING STREET 1986 Yes No	No No
277 MANNING STREET 1986 Yes No	No No
280 MANNING STREET 1988 Yes No	No
285 MANNING STREET 1988 No	
290 MANNING STREET 1986 Yes No	No
295 MANNING STREET 1988 No	·



298	MANNING STREET	1986	Yes	No	No		
299	MANNING STREET	1988	Yes	No	No		
305	MANNING STREET	1988	Yes	No	No		
306	MANNING STREET	1986	Yes	No	No		
312	MANNING STREET	1986	Yes	No	No		
322	MANNING STREET	1986	Yes	No	No		
325	MANNING STREET		No	7.0			
326	MANNING STREET	1988	Yes	No	No		
347	MANNING STREET	1988	Yes	No	No		
351	MANNING STREET	1986	Yes	No	No		
354	MANNING STREET	1988	Yes	No	No		
357	MANNING STREET	1986	Yes	No	No		
362	MANNING STREET	1986	Yes	No	No		
369	MANNING STREET	1986	Yes	No	No		
377	MANNING STREET	1986	Yes	No	No		
378	MANNING STREET	1986	Yes	No	No		
383	MANNING STREET	1988	Yes	No	No		
384	MANNING STREET	1986	Yes	No	No		
388	MANNING STREET	1986	Yes	No	No		
389	MANNING STREET	1988	No				
394	MANNING STREET	1988	Yes	No	No		
6	MANSON ROAD	1985	Yes	No	No		
10	MANSON ROAD	1986	Yes	No	Yes	GROUND	
16	MANSON ROAD	1986	Yes	No	No		
20	MANSON ROAD	1986	Yes	No	No		
21	MANSON ROAD	1985	Yes	No	No		
22	MANSON ROAD	1986	Yes	No	No		
8	MAPLE STREET	1985	Yes	Yes	No		
13	MAPLE STREET	1985	Yes	Yes	Yes		
14	MAPLE STREET	1986	Yes	Yes	Yes	GROUND	
28	MAPLE STREET	1986	Yes	No	No		
29	MAPLE STREET	1986	Yes	No	No		
35	MAPLE STREET	1985	Yes	No	No		
36	MAPLE STREET	1985	Yes	No	No		
44	MAPLE STREET	1985	Yes	No	No		
50	MAPLE STREET	1985	Yes	No	No		
59	MAPLE STREET	1986	Yes	No	No		
60	MAPLE STREET	1986	Yes	No	No		
69	MAPLE STREET	1986	Yes	No	No		
74	MAPLE STREET	1986	Yes	No	No		
85	MAPLE STREET	1985	Yes	No	No		
85	MAPLE STREET	2008	Yes	Yes			
99	MAPLE STREET	1986	Yes	No	No		
102	MAPLE STREET	1989	Yes	No	No		



103	MAPLE STREET	1986	Yes	Yes	Yes		
106	MAPLE STREET	1986	No	103	103		
109	MAPLE STREET	1985	Yes	No	No		
110	MAPLE STREET	1985	Yes	No	No		
116	MAPLE STREET	1985	Yes	No	No		
120	MAPLE STREET	1985	Yes	No	No		
128	MAPLE STREET	1985	Yes	No	No		
136	MAPLE STREET	1985		No	No		
136			Yes	INO	INO		
160	MAPLE STREET	1989 1989	No	No	No		
204	MAPLE STREET	1989	Yes	No	No		
	MAPLE STREET		Yes	No	No		
115/115A	MAPLE STREET	1985	Yes	No	No		
124/126	MAPLE STREET	1985	Yes	No	No		
13/21	MAPLE STREET	1986	Yes	No	No		
135/137	MAPLE STREET	1986	Yes	No	No		
141/143	MAPLE STREET	1986	Yes	No	No		
147/149	MAPLE STREET	1986	Yes	Yes	Yes	GROUND	
163/165	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
164/166	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
169/171	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
172/174	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
175/177	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
178/180	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
183/185	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
184/186	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
190/192	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
191/193	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
196/198	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
199/201	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
207/209	MAPLE STREET	1985	Yes	Yes	Yes	GROUND	
210/212	MAPLE STREET	1986	Yes	No	No		
22/24	MAPLE STREET	1986	Yes	No	No		
65/67	MAPLE STREET	1986	Yes	No	No		
66/68	MAPLE STREET	1985	Yes	No	No		
71/73	MAPLE STREET	1985	Yes	No	No		
75/77	MAPLE STREET	1986	Yes	No	No		
78/80	MAPLE STREET	1986	Yes	No	No		
79/81	MAPLE STREET	1989	Yes	No	No		
3	MAPLE TERRACE	1985	Yes	No	No		
4	MAPLE TERRACE	1985	Yes	No	No		
7	MAPLE TERRACE	1986	Yes	No	No		
8	MAPLE TERRACE	1986	Yes	No	No		
17	MAPLE TERRACE	1986	Yes	No	No		
18	MAPLE TERRACE	1985	Yes	No	No		



11	MARKIELDOAD	1005	Vas	No	No	1		1
11	MARK LEE ROAD	1985	Yes	No No	No			
12 17	MARK LEE ROAD	1986	Yes	No	No			
	MARK LEE ROAD	1985 1989	Yes	No	No			
18	MARK LEE ROAD		Yes	No	No			
32	MARK LEE ROAD	1985	Yes	No	No			
39	MARK LEE ROAD	1985	Yes	No	No		00011110	
44	MARK LEE ROAD	1985	Yes	No	Yes		GROUND	
6	MARKED TREE ROAD	1985	Yes	No	No			
6	MARKED TREE ROAD	2008	Yes	No				
11	MARKED TREE ROAD	1986	Yes	No	No			
11	MARKED TREE ROAD	2008	Yes	No				
19	MARKED TREE ROAD	1985	Yes	No	No			
19	MARKED TREE ROAD	2008	Yes					NO SUMP PUMP OR WATER ISSUES (BY OWNER)
20	MARKED TREE ROAD	1991	No					
20	MARKED TREE ROAD	2008	Yes	No				
25	MARKED TREE ROAD	1986	Yes	Yes	Yes		GROUND	
25	MARKED TREE ROAD	2008	Yes	Yes	Yes	2	OWNER SAYS TO DRYWELL	1 PUMP HARDPIPED TO DRYWELL, 1 SOFTPIPED OUTSIDE
26	MARKED TREE ROAD	1986	Yes	No	No			
26	MARKED TREE ROAD	2008	Yes	No				
29	MARKED TREE ROAD	1991	No					
29	MARKED TREE ROAD	2008	Yes	No				HALF FINISHED BASEMENT
35	MARKED TREE ROAD	1986	Yes	Yes	No			
35	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	SEWER/SINK	
36	MARKED TREE ROAD	1985	Yes	No	No			
36	MARKED TREE ROAD	2008	Yes	Yes				
43	MARKED TREE ROAD	2008	No					
43	MARKED TREE ROAD		Yes	No	No			
46	MARKED TREE ROAD	1985	Yes	No	No			
51	MARKED TREE ROAD	1985	Yes	No	No			
51	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	DRIVEWAY	FRENCH WALL, LEDGE INSIDE
54	MARKED TREE ROAD	1986	Yes	No	No			
54	MARKED TREE ROAD	2008	Yes	No				
54	MARKED TREE ROAD	2008	Yes					
57	MARKED TREE ROAD	1985	Yes	No	No			
57	MARKED TREE ROAD	2008	Yes	No				
58	MARKED TREE ROAD	1985	Yes	No	No			
58	MARKED TREE ROAD	2008	Yes	No				
66	MARKED TREE ROAD	1986	Yes	Yes	Yes		GROUND	
66	MARKED TREE ROAD	2008	Yes	No				
67	MARKED TREE ROAD	1986	Yes	No	No			
67	MARKED TREE ROAD	2008	No					



72	MARKED TREE ROAD	1985	Yes	Yes	Yes		GROUND	
72	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	YARD	
77	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	YARD	
78	MARKED TREE ROAD	2008	Yes	No				
82	MARKED TREE ROAD	1985	Yes	No	No			
82	MARKED TREE ROAD	2008	No					
89	MARKED TREE ROAD	1986	Yes	No	No			
89	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	OWNER SAYS TO DRYWELL	FRENCH DRAIN PLUS DRY WELL (FROM OWNER)
92	MARKED TREE ROAD	1986	Yes	No	No		211111222	(intern contain)
92	MARKED TREE ROAD	2008	No					
95	MARKED TREE ROAD	1985	Yes	No	No			
95	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	YARD	HALF FINISHED BASEMENT
100	MARKED TREE ROAD	1985	Yes	No	No	_		
100	MARKED TREE ROAD	2008	Yes	No	Yes	1	YARD	
103	MARKED TREE ROAD	1985	Yes	No	No	_		
103	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	
106	MARKED TREE ROAD	1986	Yes	Yes	No	_		
106	MARKED TREE ROAD	2008	No					
107	MARKED TREE ROAD	1986	Yes	No	No			
107	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	SEWER, SOFT PIPED INTO SEWER PIPE	
114	MARKED TREE ROAD	1986	Yes	No	No		JEVVEIX FIFE	
114	WANKED THEE HOAD	1980	163	NO	NO		OWNER SAYS TO FRENCH	
114	MARKED TREE ROAD	2008	Yes	No	Yes	1	DRAIN	
115	MARKED TREE ROAD	1989	Yes	Yes	Yes		GROUND	
115	MARKED TREE ROAD	2008	Yes	No	Yes	1	UNK	
124	MARKED TREE ROAD	1986	Yes	No	No			
124	MARKED TREE ROAD	2008	Yes	Yes				
127	MARKED TREE ROAD	1986	Yes	No	No			
127	MARKED TREE ROAD	2008	Yes	No				
133	MARKED TREE ROAD	1985	Yes	No	No			
133	MARKED TREE ROAD	2008	No					
134	MARKED TREE ROAD	1991	No					
134	MARKED TREE ROAD	2008	Yes					FINISHED BASEMENT
141	MARKED TREE ROAD	1985	Yes	No	No			
141	MARKED TREE ROAD	2008	Yes	Yes				
142	MARKED TREE ROAD	1989	Yes	No	No			
142	MARKED TREE ROAD	2008	Yes	Yes				
148	MARKED TREE ROAD	1989	Yes	No	No			
148	MARKED TREE ROAD	2008	Yes	No				
149	MARKED TREE ROAD	1985	Yes	No	No			
149	MARKED TREE ROAD	2008	Yes					NO SUMP PUMP
155	MARKED TREE ROAD	1985	Yes	No	No			



155	MARKED TREE ROAD	2008	Yes	Yes				RARELY GETS GROUNDWATER
158	MARKED TREE ROAD	1989	Yes	Yes	Yes		GROUND	
159	MARKED TREE ROAD	1991	No					
159	MARKED TREE ROAD	2008	No					
168	MARKED TREE ROAD	1991	No					
168	MARKED TREE ROAD	2008	Yes	Yes				
169	MARKED TREE ROAD	1985	Yes	No	No			
169	MARKED TREE ROAD	2008	Yes	No				
176	MARKED TREE ROAD	1986	Yes	Yes	Yes		GROUND	
177	MARKED TREE ROAD	1985	Yes	No	No			
177	MARKED TREE ROAD	2008	Yes	No				
182	MARKED TREE ROAD	1986	Yes	No	No			
182	MARKED TREE ROAD	2008	Yes	Yes				
206	MARKED TREE ROAD	1985	Yes	Yes	Yes		DRAIN	
206	MARKED TREE ROAD	2008	No					
207	MARKED TREE ROAD	1989	Yes	No	No			
207	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	YARD	
208	MARKED TREE ROAD	2008	Yes	No				
213	MARKED TREE ROAD	1985	Yes	Yes	Yes		SINK	
213	MARKED TREE ROAD	2008	Yes	Yes	Yes	2	YARD	
218	MARKED TREE ROAD	1985	Yes	Yes	Yes		GROUND	
218	MARKED TREE ROAD	2008	Yes	Yes	Yes	2	DRIVEWAY	
222	MARKED TREE ROAD	1985	Yes	Yes	No			
222	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	DRIVEWAY	FINISHED BASEMENT
228	MARKED TREE ROAD	1991	No					
228	MARKED TREE ROAD	2008	No					
234	MARKED TREE ROAD	1986	Yes	No	No			
234	MARKED TREE ROAD	2008	No					
237	MARKED TREE ROAD	1986	Yes	No	No			
237	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	YARD	
242	MARKED TREE ROAD	1986	Yes	Yes	Yes		GROUND	
242	MARKED TREE ROAD	2008	No					
243	MARKED TREE ROAD	1986	Yes	No	No			
243	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	YARD	
248	MARKED TREE ROAD	1986	Yes	Yes	Yes		GROUND	
248	MARKED TREE ROAD	2008	No					
249	MARKED TREE ROAD	1986	Yes	No	No			
249	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	YARD	
254	MARKED TREE ROAD	1985	Yes	No	No			
254	MARKED TREE ROAD	2008	Yes					
257	MARKED TREE ROAD	1986	Yes	No	No			
257	MARKED TREE ROAD	2008	Yes					
262	MARKED TREE ROAD	1985	Yes	No	No			
262	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	



268	MARKED TREE ROAD	1985	Yes	No	No			
274	MARKED TREE ROAD	1986	Yes	No	No			
277	MARKED TREE ROAD	1985	Yes	Yes	Yes		GROUND	
277	MARKED TREE ROAD	2008	Yes	Yes	Yes	1	SEWER	
283	MARKED TREE ROAD	1985	Yes	No	No	-	JEWEN.	
283	MARKED TREE ROAD	2008	Yes	110	140			
284	MARKED TREE ROAD	1989	Yes	Yes	Yes		PLUMBING	
297	MARKED TREE ROAD	2008	Yes	. 55				
298	MARKED TREE ROAD	2008	No					
?	MARKED TREE ROAD	2008	Yes	Yes				
?	MARKED TREE ROAD	2008	Yes	No				
?	MARKED TREE ROAD	2008	No					
158	MARKET ROAD	2008	Yes	Yes	Yes	1	YARD	
3	MARLEY STREET	1986	Yes	No	No			
4	MARLEY STREET	1986	Yes	No	No			
8	MARLEY STREET	1986	Yes	No	No			
9	MARLEY STREET	1989	No					
12	MARLEY STREET	1986	Yes	No	No			
15	MARLEY STREET	1988	Yes	No	No			
18	MARLEY STREET	1986	Yes	No	No			
21	MARLEY STREET	1988	Yes	No	No			
27	MARLEY STREET	1988	Yes	Yes	Yes		GROUND	
35	MARLEY STREET	1988	Yes	No	No			
36	MARLEY STREET	1988	Yes	No	No			
86	MARLEY STREET	1986	Yes	No	No			
42	MARSHALL STREET	1988	No					
48	MARSHALL STREET	1988	Yes	No	No			
52	MARSHALL STREET	1988	No					
53	MARSHALL STREET	1988	Yes	No	No			
58	MARSHALL STREET	1988	No					
69	MARSHALL STREET	1987	Yes	No	No			
78	MARSHALL STREET	1987	Yes	No	No			
62/64	MARSHALL STREET	1988	No					
70/72	MARSHALL STREET	1988	No					
3	MARY CHILTON ROAD	1989	Yes	No	No			
6	MARY CHILTON ROAD	1985	Yes	No	No			
11	MARY CHILTON ROAD	1985	Yes	No	No			
14	MARY CHILTON ROAD	1985	Yes	No	No			
17	MARY CHILTON ROAD	1986	Yes	No	No			
22	MARY CHILTON ROAD	1989	Yes	No	No			
28	MARY CHILTON ROAD	1986	Yes	No	No			
29	MARY CHILTON ROAD	1986	Yes	No	No			
37	MARY CHILTON ROAD	1986	Yes	No	No			
40	MARY CHILTON ROAD	1989	No					



43	MARY CHILTON ROAD	1986	Yes	No	No		
48	MARY CHILTON ROAD	1986	Yes	No	No		
51	MARY CHILTON ROAD	1986	Yes	No	No		
57	MARY CHILTON ROAD	1985	Yes	No	No		
65	MARY CHILTON ROAD	1985	Yes	No	No		
69	MARY CHILTON ROAD	1985	Yes	No	No		
72	MARY CHILTON ROAD	1986	Yes	No	No		
77	MARY CHILTON ROAD	1986	Yes	No	No		
80	MARY CHILTON ROAD	1986	Yes	No	No		
85	MARY CHILTON ROAD	1986	Yes	No	No		
86	MARY CHILTON ROAD	1985	Yes	No	No		
91	MARY CHILTON ROAD	1985	Yes	No	No		
92	MARY CHILTON ROAD	1985	Yes	No	No		
95	MARY CHILTON ROAD	1986	Yes	No	No		
99		1986	Yes	No	No		
100	MARY CHILTON ROAD	1985	Yes	No	No		
107	MARY CHILTON ROAD MARY CHILTON ROAD	1985		No	No		
117		1985	Yes		No		
12	MASON ROAD		Yes	No			
	MASON ROAD	1986	Yes	No	No		
19 20	MASON ROAD	1986	Yes	No	No		
	MASON ROAD	1986	Yes	No	No		
26	MASON ROAD	1986	Yes	Yes	No		
36	MASON ROAD	1986	Yes	No	No		
41	MASON ROAD	1986	Yes	No	No		
11	MAY STREET	1986	Yes	No	No		
12	MAY STREET	1985	Yes	No	No		
18	MAY STREET	1986	Yes	No	No		
19	MAY STREET	1986	Yes	Yes	No		
24	MAY STREET	1985	Yes	No	No		
25	MAY STREET	1985	Yes	No	No		
33	MAY STREET	1986	Yes	No	No		
37	MAY STREET	1989	No				
43	MAY STREET	1986	Yes	No	No		
47	MAY STREET	1984	Yes	No	No		
50	MAY STREET	1985	Yes	No	No		
57	MAY STREET	1989	Yes	No	No		
67	MAY STREET	1985	Yes	No	No		
70	MAY STREET	1986	No				
73	MAY STREET	1985	Yes	No	No		
76	MAY STREET	1986	Yes	No	No		
77	MAY STREET	1989	Yes	No	No		
89	MAY STREET	1985	Yes	No	No		
101	MAY STREET	1986	Yes	No	No		
114	MAY STREET	1985	Yes	No	No		



210 218 226 232	MAY STREET MAY STREET	1987	Yes	No	No	
226	MAYSIREEI		V	NI-	NI-	
	NANY CEDEET	1987	Yes	No	No	
232	MAY STREET	1988	Yes	No	No	
	MAY STREET	1987	Yes	No	No	
235	MAY STREET	1987	No	NI.		
235	MAY STREET	1988	Yes	No	No	
241	MAY STREET	1987	Yes	No	No	
110/112	MAY STREET	1985	Yes	No	No	
81/83	MAY STREET	1986	Yes	No	No	
5	MAYFLOWER ROAD	1985	Yes	No	No	
10	MAYFLOWER ROAD	1986	Yes	No	No	
16	MAYFLOWER ROAD	1985	Yes	No	No	
17	MAYFLOWER ROAD	1985	Yes	No	No	
22	MAYFLOWER ROAD	1989	Yes	No	No	
23	MAYFLOWER ROAD	1985	Yes	No	No	
30	MAYFLOWER ROAD	1986	Yes	No	No	
31	MAYFLOWER ROAD	1989	Yes	No	No	
35	MAYFLOWER ROAD	1985	Yes	No	No	
38	MAYFLOWER ROAD	1985	Yes	No	No	
42	MAYFLOWER ROAD	1985	Yes	No	No	
43	MAYFLOWER ROAD	1986	Yes	No	No	
49	MAYFLOWER ROAD	1986	Yes	No	No	
50	MAYFLOWER ROAD	1985	Yes	No	No	
57	MAYFLOWER ROAD	1986	Yes	No	No	
58	MAYFLOWER ROAD	1985	Yes	No	No	
63	MAYFLOWER ROAD	1985	Yes	No	No	
64	MAYFLOWER ROAD	1989	Yes	No	No	
72	MAYFLOWER ROAD	1985	Yes	No	No	
77	MAYFLOWER ROAD	1986	Yes	No	No	
85	MAYFLOWER ROAD	1986	Yes	No	No	
86	MAYFLOWER ROAD	1985	Yes	No	No	
93	MAYFLOWER ROAD	1985	Yes	No	No	
94	MAYFLOWER ROAD	1986	Yes	No	No	
97	MAYFLOWER ROAD	1985	Yes	No	No	
100	MAYFLOWER ROAD	1986	Yes	No	No	
2	MAYO AVE	1986	No			
6	MAYO AVE	1988	Yes	No	No	
11	MAYO AVE	1986	Yes	No	No	
13	MAYO AVE	1988	No			NO SUCH ADDRESS?
14	MAYO AVE	1988	No		İ	
19	MAYO AVE	1988	No			
20	MAYO AVE	1988	Yes	No	No	
24	MAYO AVE	1988	Yes	No	No	
25	MAYO AVE	1988	No	-		



			Τ	1	ı	T	
30	MAYO AVE	1986	Yes	No	No		
35	MAYO AVE	1988	Yes	No	No		
39	MAYO AVE	1986	Yes	Yes	No		
44	MAYO AVE	1986	Yes	No	No		
47	MAYO AVE	1986	Yes	No	No		
48	MAYO AVE	1988	No				
49	MAYO AVE	1986	Yes	No	No		
52	MAYO AVE	1988	Yes	No	No		
53	MAYO AVE	1988	No				
58	MAYO AVE	1986	Yes	No	No		
61	MAYO AVE	1986	Yes	No	No		
64	MAYO AVE	1986	Yes	No	No		
67	MAYO AVE	1988	Yes	No	No		
71	MAYO AVE	1988	No				
72	MAYO AVE	1988	No				
77	MAYO AVE	1986	No				
80	MAYO AVE	1986	Yes	No	No		
11	MCCULLOCH STREET	1987	Yes	No	No		
19	MCCULLOCH STREET	1987	Yes	No	No		
10/12	MCCULLOCH STREET	1987	No				
16/18	MCCULLOCH STREET	1987	Yes	No	No		
14	MEADOW LANE	1987	Yes	No	No		
15	MEADOW LANE	1987	Yes	No	No		
20	MEADOW LANE	1988	Yes	No	No		
20	MEADOW LANE	1994	No				ROOF LEADER
28	MEADOW LANE	1988	Yes	No	No		
3	MEADOWBROOK ROAD	1987	Yes	No	No		
11	MEADOWBROOK ROAD	1987	Yes	No	No		
17	MEADOWBROOK ROAD	1987	Yes	No	No		
18	MEADOWBROOK ROAD	1987	No				
26	MEADOWBROOK ROAD	1987	No				
27	MEADOWBROOK ROAD	1990	Yes	Yes	Yes	PLUMBING	
34	MEADOWBROOK ROAD	1987	Yes	No	Yes	GROUND	
35	MEADOWBROOK ROAD	1987	No				
45	MEADOWBROOK ROAD	1987	Yes	No	No		
45	MEADOWBROOK ROAD	1994	No				ROOF LEADER
48	MEADOWBROOK ROAD	1987	No				
48	MEADOWBROOK ROAD	1994	No				ROOF LEADER
51	MEADOWBROOK ROAD	1987	No				
56	MEADOWBROOK ROAD	1987	Yes	No	No		
61	MEADOWBROOK ROAD	1987	Yes	No	No		
61	MEADOWBROOK ROAD	1994	No				ROOF LEADER
62	MEADOWBROOK ROAD	1987	Yes	No	No		
68	MEADOWBROOK ROAD	1987	Yes	No	No		



74	MEADOWBROOK ROAD	1987	No				
81	MEADOWBROOK ROAD	1987	Yes	No	No		
89	MEADOWBROOK ROAD	1987	No	-			
93	MEADOWBROOK ROAD	1987	No				
93	MEADOWBROOK ROAD	1994	No				ROOF LEADER
94	MEADOWBROOK ROAD	1987	No				
94	MEADOWBROOK ROAD	1994	No				ROOF LEADER
97	MEADOWBROOK ROAD	1987	No				
97	MEADOWBROOK ROAD	1994	No				ROOF LEADER
105	MEADOWBROOK ROAD	1987	Yes	No	No		
108	MEADOWBROOK ROAD	1987	Yes	No	No		
108	MEADOWBROOK ROAD	1994	No				ROOF LEADER
109	MEADOWBROOK ROAD	1987	No				
109	MEADOWBROOK ROAD	1994	No				ROOF LEADER
116	MEADOWBROOK ROAD	1987	No				
116	MEADOWBROOK ROAD	1994	No				ROOF LEADER
119	MEADOWBROOK ROAD	1987	No				
122	MEADOWBROOK ROAD	1987	No				
122	MEADOWBROOK ROAD	1994	No				ROOF LEADER
125	MEADOWBROOK ROAD	1987	Yes	No	No		
130	MEADOWBROOK ROAD	1987	No				
131	MEADOWBROOK ROAD	1987	Yes	Yes	Yes	GROUND	
137	MEADOWBROOK ROAD	1987	No				
140	MEADOWBROOK ROAD	1987	Yes	No	No		
145	MEADOWBROOK ROAD	1987	No				
150	MEADOWBROOK ROAD	1987	Yes	No	No		
153	MEADOWBROOK ROAD	1987	No				
158	MEADOWBROOK ROAD	1987	Yes	No	No		
158	MEADOWBROOK ROAD	1994	No				ROOF LEADER
164	MEADOWBROOK ROAD	1987	No				
6	MEETINGHOUSE CIRCLE	1987	No				
7	MEETINGHOUSE CIRCLE	1987	Yes	No	No		
15	MEETINGHOUSE CIRCLE	1987	No				
18	MEETINGHOUSE CIRCLE	1987	Yes	No	No		
26	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
29	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
35	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
40	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
47	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
50	MEETINGHOUSE CIRCLE	1987	Yes	No	No		
62	MEETINGHOUSE CIRCLE	1987	Yes	No	No		
74	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
87	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
92	MEETINGHOUSE CIRCLE	1987	Yes	No	No		



97	MEETINGHOUSE CIRCLE	1988	No				
121	MEETINGHOUSE CIRCLE	1988	No				
146	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
146	MEETINGHOUSE CIRCLE	1994	No				ROOF LEADER
147	MEETINGHOUSE CIRCLE	1988	No				
152	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
153	MEETINGHOUSE CIRCLE	1988	Yes	No	Yes	GROUND	
159	MEETINGHOUSE CIRCLE	1987	Yes	No	No		
159	MEETINGHOUSE CIRCLE	1994	No				ROOF LEADER
160	MEETINGHOUSE CIRCLE	1988	Yes	Yes	No		
165	MEETINGHOUSE CIRCLE	1988	No				
166	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
166	MEETINGHOUSE CIRCLE	1994	No				ROOF LEADER
172	MEETINGHOUSE CIRCLE	1988	Yes	No	No		
172	MEETINGHOUSE CIRCLE	1994	No				ROOF LEADER
180	MEETINGHOUSE CIRCLE	1987	Yes	No	No		
181	MEETINGHOUSE CIRCLE	1988	No				
29	MEETINGHOUSE ROAD	1994	No				DRIVEWAY DRAIN
8	MELLEN STREET	1989	No				PIPE NOT VISIBLE, NO BASEMENT
			110				THE THOT VISIBLE, THE BASEWIETT
9	MELLEN STREET	1985	Yes	No	No		
12	MELLEN STREET	1986	Yes	No	No		
15	MELLEN STREET	1985	Yes	No	No		
18	MELLEN STREET	1985	Yes	No	No		
21	MELLEN STREET	1985	Yes	No	No		
24	MELLEN STREET	1986	Yes	No	No		
27	MELLEN STREET	1985	Yes	No	No		
28	MELLEN STREET	1989	Yes	Yes	Yes	GROUND	
32	MELLEN STREET	1985	Yes	No	No		
33	MELLEN STREET	1985	Yes	No	No		
36	MELLEN STREET	1986	Yes	No	No		
37	MELLEN STREET	1985	Yes	No	No		
40	MELLEN STREET	1989	Yes	No	No		
41	MELLEN STREET	1985	Yes	No	No		
44	MELLEN STREET	1985	Yes	No	No		
47	MELLEN STREET	1985	Yes	No	No		
48	MELLEN STREET	1985	Yes	No	No		
53	MELLEN STREET	1986	Yes	Yes	Yes	PLUMBING	
5	MELROSE AVE	1988	Yes	Yes	Yes	SINK	
9	MELROSE AVE	1989	Yes	No	No		
10	MELROSE AVE	1986	Yes	No	No		
11	MELROSE AVE	1986	Yes	No	No		
14	MELROSE AVE	1986	Yes	No	No		
15	MELROSE AVE	1988	No				



4.0	MELBOCE AVE	4000	V			1	
16	MELROSE AVE	1988	Yes	No	No		
17	MELROSE AVE	1989	Yes	No	No		
20	MELROSE AVE	1987	Yes	No	No		
21	MELROSE AVE	1988	Yes	Yes	Yes	GROUND	
22	MELROSE AVE	1986	Yes	No	No		
24	MELROSE AVE	1987	Yes	No	No		
29	MELROSE AVE	1987	Yes	No	No		
30	MELROSE AVE	1987	Yes	No	No		
32	MELROSE AVE	1986	Yes	No	No		
32	MELROSE AVE	1988	Yes	No	No		
33	MELROSE AVE	1986	Yes	No	No		
36	MELROSE AVE	1986	Yes	No	No		
37	MELROSE AVE	1988	Yes	No	No		
43	MELROSE AVE	1988	Yes	No	No		
45	MELROSE AVE	1986	No				
46	MELROSE AVE	1986	Yes	No	No		
56	MELROSE AVE	1986	No				NOT CONNECTED TO SEWER
57	MELROSE AVE	1986	No				NOT CONNECTED TO SEWER
63	MELROSE AVE	1988	Yes	No	No		
68	MELROSE AVE	1988	Yes	No	No		
69	MELROSE AVE	1988	Yes	Yes	Yes	GROUND	
74	MELROSE AVE	1988	Yes	No	Yes	GROUND	
78	MELROSE AVE	1988	Yes	Yes	Yes	GROUND	
89	MELROSE AVE	1988	Yes	No	Yes	GROUND	
97	MELROSE AVE	1988	Yes	No	Yes	GROUND	
113	MELROSE AVE	1988	No				
122	MELROSE AVE	1986	Yes	No	No		
123	MELROSE AVE	1988	Yes	No	No		
128	MELROSE AVE	1988	No				
129	MELROSE AVE	1988	Yes	No	No		
134	MELROSE AVE	1988	No				
138	MELROSE AVE	1986	Yes	No	No		
139	MELROSE AVE	1986	Yes	No	No		
143	MELROSE AVE	1986	Yes	No	No		
146	MELROSE AVE	1986	Yes	No	No		
149	MELROSE AVE	1986	Yes	No	No		
157	MELROSE AVE	1988	Yes	No	No		
158	MELROSE AVE	1986	Yes	No	No		
161	MELROSE AVE	1988	Yes	No	No		
166	MELROSE AVE	1988	No	-			
169	MELROSE AVE	1988	Yes	No	No		
172	MELROSE AVE	1988	Yes	No	No		
173	MELROSE AVE	1988	Yes	No	No		
176	MELROSE AVE	1988	Yes	No	No		



179	MELROSE AVE	1986	Yes	No	No	
182	MELROSE AVE	1988	No	140	110	
187	MELROSE AVE	1988	No			
193	MELROSE AVE	1988	Yes	No	No	
186/188	MELROSE AVE	1986	Yes	No	No	
9	MELVERN ROAD	1987	Yes	No	No	
3	MEMORIAL CIRCLE	2008	Yes	140	110	HOME ON SLAB
4	MEMORIAL CIRCLE	2008	Yes			HOME ON SLAB
10	MEMORIAL CIRCLE	2008	Yes			HOME ON SLAB
14	MEMORIAL CIRCLE	2008	Yes			HOME ON SLAB
17	MEMORIAL CIRCLE	2008	Yes			HOME ON SLAB
18	MEMORIAL CIRCLE	2008	Yes			HOME ON SLAB
10	MERCER ROAD	1986	Yes	No	No	HOME ON SEAD
15	MERCER ROAD	1989	No	140	110	
21	MERCER ROAD	1986	Yes	No	No	
22	MERCER ROAD	1985	Yes	No	No	
10	MEREDITH CIRCLE	1987	Yes	No	No	
16	MEREDITH CIRCLE	1994	No	140	110	YARD DRAIN
12	MILLER STREET	1985	Yes	No	No	TARE BRAIN
12	MILLER STREET	2008	Yes	No	110	
17	MILLER STREET	2008	Yes	No		
18	MILLER STREET	1985	Yes	No	No	
18	MILLER STREET	2008	No	140	110	
22	MILLER STREET	2008	Yes	No		
12	MILLS ROAD	1988	Yes	No	No	
16	MILLS ROAD	1987	Yes	No	No	
19	MILLS ROAD	1988	No	110	110	
20	MILLS ROAD	1987	Yes	No	No	
22	MILLS ROAD	1988	No	110	110	
32	MILLS ROAD	1988	No			
33	MILLS ROAD	1988	No			
5	MORNINGSIDE ROAD	1986	Yes	No	Yes	
6	MORNINGSIDE ROAD	1986	Yes	No	No	
9	MORNINGSIDE ROAD	1989	No	1.0	1.0	
14	MORNINGSIDE ROAD	1986	Yes	No	No	
15	MORNINGSIDE ROAD	1989	No	1.2		
21	MORNINGSIDE ROAD	1988	Yes	No	No	
24	MORNINGSIDE ROAD	1989	No	1.2		
27	MORNINGSIDE ROAD	1989	No			
30	MORNINGSIDE ROAD	1986	Yes	No	No	
33	MORNINGSIDE ROAD	1988	Yes	No	No	
36	MORNINGSIDE ROAD	1988	Yes	No	No	
43	MORNINGSIDE ROAD	1989	No			
44	MORNINGSIDE ROAD	1989	No			



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45	MORNINGSIDE ROAD	1988	Yes	No	No		
50	MORNINGSIDE ROAD	1988	Yes	No	No		
51	MORNINGSIDE ROAD	1989	No				
56	MORNINGSIDE ROAD	1988	Yes	No	No		
75	MORNINGSIDE ROAD	1986	Yes	No	No		
78	MORNINGSIDE ROAD	1988	Yes	No	No		
84	MORNINGSIDE ROAD	1986	Yes	No	No		
85	MORNINGSIDE ROAD	1986	Yes	No	No		
90	MORNINGSIDE ROAD	1988	Yes	No	No		
91	MORNINGSIDE ROAD	1989	Yes	No	No		
9	MORTON STREET	1985	Yes	No	No		
12	MORTON STREET	1986	Yes	No	No		
15	MORTON STREET	1989	Yes	No	No		
18	MORTON STREET	1985	Yes	No	No		
22	MORTON STREET	1989	Yes	No	Yes	GROUND	
23	MORTON STREET	1986	Yes	No	No		
27	MORTON STREET	1985	Yes	No	No		
28	MORTON STREET	1986	Yes	Yes	Yes	GROUND	
34	MORTON STREET	1989	Yes	No	No		
35	MORTON STREET	1986	Yes	Yes	No		BACK WATER VALVE CONNECTED ON CAP
40	MORTON STREET	1985	Yes	No	No		
43	MORTON STREET	1985	Yes	No	No		
46	MORTON STREET		Yes	No	No		
51	MORTON STREET	1986	Yes	No	No		
52	MORTON STREET	1989	No				
58	MORTON STREET	1986	Yes	No	Yes	GROUND	
82	MORTON STREET	1989	Yes	No	No		
10	MOSELY AVE	1988	No				
11	MOSELY AVE	1988	No				
29	MOSELY AVE	1987	Yes	Yes	Yes	GROUND	
32	MOSELY AVE	1987	Yes	Yes	Yes	GROUND	
37	MOSELY AVE	1988	Yes	No	No		
42	MOSELY AVE	1987	Yes	No	Yes	GROUND	
48	MOSELY AVE	1988	No				
19	MT VERNON AVE	1988	Yes	No	Yes	GROUND	
24	MT VERNON AVE	1988	No				
25	MT VERNON AVE	1988	Yes	No	No		
35	MT VERNON AVE	1986	Yes	No	No		
42	MT VERNON AVE	1988	Yes	Yes	Yes	GROUND	
47	MT VERNON AVE	1988	No				
50	MT VERNON AVE	1986	Yes	No	No		
53	MT VERNON AVE	1988	Yes	No	No		
59	MT VERNON AVE	1986	Yes	No	No		



60	MT VERNON AVE	1986	Yes	No	No		
65	MT VERNON AVE	1988	No	110	110		
6	MURPHY ROAD	2008	Yes			HOME ON SLAB	
16	MURPHY ROAD	2008	Yes			HOME ON SLAB	
24	MURPHY ROAD	2008	Yes			HOME ON SLAB	
30	MURPHY ROAD	2008	Yes			HOME ON SLAB	
39	MURPHY ROAD	2008	Yes			HOME ON SLAB	
45	MURPHY ROAD	2008	Yes			HOME ON SLAB	
51	MURPHY ROAD	2008	Yes			HOME ON SLAB	
58	MURPHY ROAD	2008	Yes			HOME ON SLAB	
?	MURPHY ROAD	2008	Yes				
?	MURPHY ROAD	2008	No				
14	MYRTLE STREET	2008	No				
15	MYRTLE STREET	2008	Yes				
11	NARDONE STREET	1986	Yes	No	No		
12	NARDONE STREET	1989	No		.,,		
17	NARDONE STREET	1988	Yes	No	No		
23	NARDONE STREET	1988	Yes	No	No		
29	NARDONE STREET	1986	Yes	No	No		
37	NARDONE STREET	1986	Yes	No	No		
38	NARDONE STREET	1986	Yes	No	No		
47	NARDONE STREET	1989	Yes	No	No		
50	NARDONE STREET	1986	Yes	No	No		
55	NARDONE STREET	1988	Yes	No	No		
60	NARDONE STREET	1986	Yes	No	No		
63	NARDONE STREET	1988	No				
69	NARDONE STREET	1988	Yes	No	No		
74	NARDONE STREET	1988	Yes	No	No		
77	NARDONE STREET	1986	No				
103	NARDONE STREET	1989	Yes	No	No		
108	NARDONE STREET	1989	Yes	No	No		
109	NARDONE STREET	1988	Yes	No	No		
116	NARDONE STREET	1986	Yes	No	No		
1	NEEDHAMDALE ROAD	1988	Yes	No	No		
7	NEEDHAMDALE ROAD	1986	Yes	No	No		
15	NEEDHAMDALE ROAD	1988	No		İ		
21	NEEDHAMDALE ROAD	1986	No		İ	SEWER NOT CONNECT	ED
29	NEEDHAMDALE ROAD	1986	Yes	No	No		
32	NEEDHAMDALE ROAD	1989	No		İ		
37	NEEDHAMDALE ROAD	1986	Yes	No	No		
42	NEEDHAMDALE ROAD	1988	Yes	No	No		
45	NEEDHAMDALE ROAD	1986	Yes	No	No		
51	NEEDHAMDALE ROAD	1988	Yes	No	No		
52	NEEDHAMDALE ROAD	1988	Yes	No	No		



59	NEEDHAMDALE ROAD	1988	Yes	No	No		
27	NEHOIDEN STREET	1987	Yes	No	No		
30	NEHOIDEN STREET	1988	Yes	No	No		
36	NEHOIDEN STREET	1987	Yes	No	No		
41	NEHOIDEN STREET	1988	Yes	No	No		
44	NEHOIDEN STREET	1988	Yes	No	No		
51	NEHOIDEN STREET	1988	Yes	No	No		
52	NEHOIDEN STREET	1988	Yes	No	No		
60	NEHOIDEN STREET	1987	Yes	No	No		
69	NEHOIDEN STREET	1988	Yes	No	No		
76	NEHOIDEN STREET	1988	Yes	No	No		
77	NEHOIDEN STREET	1988	No	INO	INO		
83	NEHOIDEN STREET	1987	Yes	No	No		
91	NEHOIDEN STREET	1988	Yes	No	No		
99	NEHOIDEN STREET	1988	Yes	No	No		
105	NEHOIDEN STREET	1987	Yes	No	No		
111	NEHOIDEN STREET	1988	Yes	No	No		
119	NEHOIDEN STREET	1988	No	NO	INU		
144	NEHOIDEN STREET	1987	Yes	No	No		
145	NEHOIDEN STREET	1988	No	INO	INU		
151	NEHOIDEN STREET	1988	No				
154	NEHOIDEN STREET	1988	Yes	No	No		
161	NEHOIDEN STREET	1987	Yes	No	No		
162	NEHOIDEN STREET	1987	Yes	No	No		
167	NEHOIDEN STREET	1988	Yes	No	No		
170	NEHOIDEN STREET	1987		_	No		
189	NEHOIDEN STREET	1987	Yes Yes	No No	No		
190	NEHOIDEN STREET	1987	Yes	No	No		
195	NEHOIDEN STREET	1988	Yes	No	No		
198	NEHOIDEN STREET	1987	Yes	No	No		
200	NEHOIDEN STREET	1988	Yes	No	No		
205	NEHOIDEN STREET	1987	Yes	No	No		
205	NEHOIDEN STREET	1994	No	NO	NO		ROOF LEADER
220	NEHOIDEN STREET	1987	Yes	No	No		NOO! LLADEN
225	NEHOIDEN STREET	1987	Yes	No	No		
233	NEHOIDEN STREET	1988	Yes	No	No		
233	NEHOIDEN STREET	1987	Yes	No	No		
241	NEHOIDEN STREET	1987	Yes	No	No		
249	NEHOIDEN STREET	1988	No	INU	INO		ROOF LEADER
263	NEHOIDEN STREET	1994	Yes	No	No		NOO! LEADEN
273	NEHOIDEN STREET	1988	Yes	No	No		
2/3		1988	Yes	No	No		
280	NEHOIDEN STREET NEHOIDEN STREET	1988	No	INU	INU		ROOF LEADER
280		1994		No	No		NOOF LEADER
283	NEHOIDEN STREET	1987	Yes	No	No		



283	NEHOIDEN STREET	1994	No				ROOF LEADER, YARD DRAIN
286	NEHOIDEN STREET	1987	Yes	No	No		· ·
291	NEHOIDEN STREET	1988	Yes	No	No		
291	NEHOIDEN STREET	1994	No				ROOF LEADER
294	NEHOIDEN STREET	1988	Yes	No	No		
301	NEHOIDEN STREET	1987	Yes	No	No		
302	NEHOIDEN STREET	1987	Yes	No	No		
310	NEHOIDEN STREET	1988	Yes	No	No		
313	NEHOIDEN STREET	1988	No				
318	NEHOIDEN STREET	1988	No				
323	NEHOIDEN STREET	1988	Yes	No	No		
330	NEHOIDEN STREET	1988	No				
333	NEHOIDEN STREET	1987	Yes	No	No		
338	NEHOIDEN STREET	1988	No				
341	NEHOIDEN STREET	1987	Yes	No	No		
346	NEHOIDEN STREET	1988	Yes	No	No		
8	NEVADA ROAD	1987	No				
11	NEVADA ROAD	1989	Yes	No	No		
19	NEVADA ROAD	1989	Yes	No	No		
22	NEVADA ROAD	1987	Yes	No	No		CAP HIDDEN
27	NEVADA ROAD	1989	No				
30	NEVADA ROAD	1989	Yes	No	No		
36	NEVADA ROAD	1989	Yes	No	Yes	GROUND	
39	NEVADA ROAD	1987	Yes	No	No		CAP HIDDEN
44	NEVADA ROAD	1989	Yes	No	No		
47	NEVADA ROAD	1987	Yes	No	No		
50	NEVADA ROAD	1987	Yes	No	No		
3	NEWBURY PARK	1986	Yes	No	No		
9	NEWBURY PARK	1986	Yes	No	No		
17	NEWBURY PARK	1988	Yes	No	No		
18	NEWBURY PARK	1986	Yes	No	No		
23	NEWBURY PARK	1988	Yes	No	No		
24	NEWBURY PARK	1988	No				
30	NEWBURY PARK	1986	Yes	No	No		
35	NEWBURY PARK	1986	Yes	No	No		
36	NEWBURY PARK	1988	Yes	No	No		
42	NEWBURY PARK	1986	Yes	No	No		
7	NEWELL AVE	1987	Yes	No	No		
11	NEWELL AVE	1987	Yes	No	No		
17	NEWELL AVE	1987	Yes	No	No		
20	NEWELL AVE	1987	Yes	No	Yes	GROUND	
21	NEWELL AVE	1987	Yes	No	No		
24	NEWELL AVE	1988	Yes	No	No		
27	NEWELL AVE	1988	Yes	No	No		



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31	NEWELL AVE	1987	Yes	No	No			
34	NEWELL AVE	1988	Yes	No	No			
37	NEWELL AVE	1988	Yes	No	No			
43	NEWELL AVE	1988	Yes	No	No			
46	NEWELL AVE	1988	Yes	No	No			
49	NEWELL AVE	1988	Yes	No	No			
52	NEWELL AVE	1988	Yes	No	No			
53	NEWELL AVE	1988	Yes	No	No			
55	NEWELL AVE	1988	No					
62	NEWELL AVE	1988	No					
86	NEWELL AVE	1988	No					
89	NEWELL AVE	1987	Yes	No	No			
92	NEWELL AVE	1988	No					
93	NEWELL AVE	1988	Yes	No	No			
97	NEWELL AVE	1988	Yes	No	No			
98	NEWELL AVE	1988	No					
103	NEWELL AVE	1987	Yes	No	No			
104	NEWELL AVE	1988	Yes	No	No			
108	NEWELL AVE	1987	Yes	No	No			
111	NEWELL AVE	1988	Yes	No	No			
114	NEWELL AVE	1987	Yes	No	No			
115	NEWELL AVE	1987	Yes	No	No			
120	NEWELL AVE	1988	Yes	No	No			
121	NEWELL AVE	1987	Yes	No	No			
126	NEW ELL AVE	1000	V	N	NI-			CAP OFF, WASHING MACHINE
126	NEWELL AVE	1988	Yes	No	No			AND SINK TIED IN SEWER
17	NEWELL AVENUE	1994	No					ROOF LEADER
24	NEWELL AVENUE	1994	No					ROOF LEADER
37	NEWELL AVENUE	1994	No					ROOF LEADER
52	NEWELL AVENUE	1994	No					DRIVEWAY DRAIN
93	NEWELL AVENUE	1994	No					DRIVEWAY DRAIN, ROOF LEADER
103	NEWELL AVENUE	1994	No					DRIVEWAY DRAIN
104	NEWELL AVENUE	1994	No					ROOF LEADER
108	NEWELL AVENUE	1994	No					ROOF LEADER
115	NEWELL AVENUE	1994	No					ROOF LEADER
4	NICHOLS ROAD	1986	Yes	No	No			
7	NICHOLS ROAD	1986	Yes	No	No			
10	NICHOLS ROAD	1988	Yes	Yes	Yes		SEWER	
13	NICHOLS ROAD	1989	Yes	No	No			CLEANOUT NOT VISIBLE
14	NICHOLS ROAD	1989	No	1.15	1			
27	NICHOLS ROAD	1986	Yes	No	No			
35	NICHOLS ROAD	1986	Yes	No	No	1		
55	NICHOLS ROAD	1988	Yes	Yes	Yes	+	GROUND	+
JJ	MICHOLD NOAD	1,00	1 5	1 €3	163		GNOOND	



56	NICHOLS ROAD	1988	Yes	No	No		
15	NOANETT ROAD	1986	Yes	Yes	No		
18	NOANETT ROAD	1986	Yes	No	No		
22	NOANETT ROAD	1986	Yes	No	No		
33	NOANETT ROAD	1988	Yes	No	No		
34	NOANETT ROAD	1986	Yes	No	No		
41	NOANETT ROAD	1986	No	110	110		
42	NOANETT ROAD	1988	Yes	No	No		
51	NOANETT ROAD	1988	No	110	110		
52	NOANETT ROAD	1986	Yes	No	No		
57	NOANETT ROAD	1988	Yes	No	No		
62	NOANETT ROAD	1986	Yes	No	No		
67	NOANETT ROAD	1986	Yes	No	No		
70	NOANETT ROAD	1986	Yes	No	No		
73	NOANETT ROAD	1986	Yes	No	No		
76	NOANETT ROAD	1986	Yes	No	No		
82	NOANETT ROAD	1986	Yes	No	No		
83	NOANETT ROAD	1988	No				
86	NOANETT ROAD	1986	Yes	No	No		
91	NOANETT ROAD	1986	Yes	No	No		
92	NOANETT ROAD	1986	Yes	No	No		CLEANOUT NOT VISIBLE
99	NOANETT ROAD	1986	No				
100	NOANETT ROAD	1986	Yes	No	No		
106	NOANETT ROAD	1986	Yes	No	No		
109	NOANETT ROAD	1986	No	-			
110	NOANETT ROAD	1988	No		No		
115	NOANETT ROAD	1986	Yes	No	No		
119	NOANETT ROAD	1986	Yes	No	No		
120	NOANETT ROAD	1988	No		No		
126	NOANETT ROAD	1986	Yes	No	No		
127	NOANETT ROAD	1988	Yes	No	No		
130	NOANETT ROAD	1986	Yes	No	No		
135	NOANETT ROAD	1986	No		No		
141	NOANETT ROAD	1986	Yes	No	No		
148	NOANETT ROAD	1988	No		No		
164/166	NOANETT ROAD	1986	Yes	No	No		
5	NORFOLK STREET	1989	No				
10	NORFOLK STREET	1989	No				
15	NORFOLK STREET	1988	Yes	No	No		
20	NORFOLK STREET	1988	No				
21	NORFOLK STREET	1987	Yes	No	No		
24	NORFOLK STREET	1988	Yes	No	No		
29	NORFOLK STREET	1988	Yes	No	No		
30	NORFOLK STREET	1987	Yes	No	Yes	GROUND	



33	NORFOLK STREET	1989	No				
38	NORFOLK STREET	1986	Yes	No	No		
43	NORFOLK STREET	1986	Yes	No	No		
44	NORFOLK STREET	1985	Yes	No	No		
50	NORFOLK STREET	1989	No				
51	NORFOLK STREET	1986	Yes	No	No		
54	NORFOLK STREET	1985	Yes	No	No		
59	NORFOLK STREET	1989	No				
60	NORFOLK STREET	1989	No				
67	NORFOLK STREET	1986	Yes	No	No		
68	NORFOLK STREET	1986	Yes	No	No		
71	NORFOLK STREET	1986	Yes	Yes	No		
74	NORFOLK STREET	1985	Yes	Yes	Yes	GROUND	
76	NORFOLK STREET	1985	Yes	Yes	Yes	GROUND	
80	NORFOLK STREET	1986	Yes	Yes	Yes	GROUND	
83	NORFOLK STREET	1985	Yes	No	No		
90	NORFOLK STREET	1985	Yes	No	No		
5	NORTH HILL ROAD	1986	Yes	No	No		
11	NORTH HILL ROAD	1986	Yes	No	No		
17	NORTH HILL ROAD	1986	Yes	No	No		
23	NORTH HILL ROAD	1986	No				
30	NORTH HILL ROAD	1986	Yes	No	No		
31	NORTH HILL ROAD	1989	No				
37	NORTH HILL ROAD	1986	Yes	No	No		
43	NORTH HILL ROAD	1986	Yes	No	No		
49	NORTH HILL ROAD	1986	Yes	No	No		
56	NORTH HILL ROAD	1989	No				
57	NORTH HILL ROAD	1986	Yes	No	No		
62	NORTH HILL ROAD	1986	Yes	Yes	Yes	GROUND	
65	NORTH HILL ROAD	1986	Yes	No	No		
69	NORTH HILL ROAD	1989	No				
74	NORTH HILL ROAD	1986	Yes	No	No		
75	NORTH HILL ROAD	1986	Yes	No	No		
80	NORTH HILL ROAD	1986	Yes	Yes	Yes	PLUMBING	
15	NORWICH ROAD	1989	Yes	No	No		
19	NORWICH ROAD	1987	Yes	No	No		
22	NORWICH ROAD	1988	Yes	No	No		
23	NORWICH ROAD	1988	Yes	No	No		
54	NORWICH ROAD	1987	Yes	No	No		
55	NORWICH ROAD	1987	Yes	No	No		
62	NORWICH ROAD	1988	Yes	No	Yes	GROUND	
63	NORWICH ROAD	1987	Yes	No	No		
66	NORWICH ROAD	1987	Yes	No	No		
69	NORWICH ROAD	1988	Yes	No	No		



75	NORWICH ROAD	1989	No					
79	NORWICH ROAD	1989	Yes	No	No			
89	NORWICH ROAD	1987	Yes	No	No			
97	NORWICH ROAD	1987	Yes	No	No			
8	NOYES STREET	1987	No	INO	INO			
10	NOYES STREET	1987	No					
19	NOYES STREET	1987	No					
20	NOYES STREET	1987	No					
26	NOYES STREET	1987	No					
62	NOYES STREET	1986	Yes	No	No			
66	NOYES STREET	1986	Yes	No	No			
12		1989		INU	INO			
18	OAK HILL ROAD		No	No	No			CLEANOUT NOT VISIBLE
	OAK HILL ROAD	1989	Yes	No	No			CLEANOUT NOT VISIBLE
21	OAK HILL ROAD	1989	Yes	No	No			
29 32	OAK HILL ROAD OAK HILL ROAD	1989 1989	No Yes	No	No			
				No	No			
34 37	OAK HILL ROAD	1987	Yes	No	No			
	OAK HILL ROAD	1989	No	V	V		CDOLIND	
40	OAK HILL ROAD	1989	Yes	Yes	Yes		GROUND	
43 70	OAK HILL ROAD	1989	No	NI.				
	OAK HILL ROAD	1987	Yes	No	No			
76	OAK HILL ROAD	1987	Yes	No	No			
80	OAK HILL ROAD	1987	No					
81	OAK HILL ROAD	1987	Yes	No	No			
88	OAK HILL ROAD	1989	Yes	No	No			
12	OAK KNOLL TERRACE	1988	Yes	No	No			
19	OAK KNOLL TERRACE	1987	Yes	No	No			
22	OAK KNOLL TERRACE	1987	Yes	No	No			
27	OAK KNOLL TERRACE	1988	No					
28	OAK KNOLL TERRACE	1988	No					
52	OAK STREET	2008	No					
60	OAK STREET	1985	Yes	No	No			
60	OAK STREET	2008	Yes	Yes	Yes	1	YARD	
66	OAK STREET	1985	Yes	No	No			
66	OAK STREET	2008	No					
84	OAK STREET	1986	Yes	No	No			
84	OAK STREET	2008	Yes	No				
90	OAK STREET	1985	Yes	No	No			
90	OAK STREET	2008	No					
94	OAK STREET	1986	Yes	Yes	Yes		GROUND	
94	OAK STREET	2008	Yes	Yes	Yes	1	YARD	
97	OAK STREET	1985	Yes	Yes	No			
97	OAK STREET	2008	No					
102	OAK STREET	1985	Yes	Yes	Yes		GROUND	



111	OAK STREET	1986	Yes	Yes	Yes		GROUND	
111	OAK STREET	2008	No	103	103		GROOND	
117	OAK STREET	1985	Yes	Yes	Yes		GROUND	
117	OAK STREET	2008	No	163	163		GINOOND	
121	OAK STREET	1985	Yes	Yes	Yes		GROUND	
121	OAK STREET	2008	Yes	Yes	Yes	1	YARD	
132	OAK STREET	1986	Yes	Yes	Yes	I	GROUND	
132	OAK STREET	2008	Yes	Yes	Yes	2	YARD	
133		1986	Yes	No	No		TAND	
133	OAK STREET OAK STREET	2008	No	INO	INO			
138	OAK STREET	1985	Yes	No	No			
					No	1	VADD	
138 141	OAK STREET OAK STREET	2008	Yes	Yes	Yes	1	YARD	
		1986	Yes	No	No			LIONAE ON CLAR
141	OAK STREET	2008	Yes	No	No			HOME ON SLAB
144	OAK STREET OAK STREET	1986	Yes	No	No			
144	OAK STREET	2008	No	Vac	Vaa		CDCUND	
148		1986	Yes	Yes	Yes		GROUND	
148	OAK STREET	2008	Yes	No	NI-			
151	OAK STREET	1985	Yes	No	No			
151	OAK STREET	2008	No	NI.				
155	OAK STREET	1985	Yes	No	No	4	V4.0.0	
155	OAK STREET	2008	Yes	Yes	Yes	1	YARD	
158	OAK STREET	1986	Yes	No	No			
158	OAK STREET	2008	No					
167	OAK STREET	1986	Yes	No	Yes	-		
167	OAK STREET	2008	Yes	Yes	Yes	2	DRIVEWAY	FINISHED BASEMENT
176	OAK STREET	1991	No					
?	OAK STREET	2008	No					
50/52	OAK STREET	1985	Yes	No	No			
63/65	OAK STREET	1985	Yes	No	No			
63-65	OAK STREET	2008	Yes	Yes	No			
8	OAKCREST ROAD	1985	Yes	Yes	Yes		SEWER	
8	OAKCREST ROAD	2008	Yes	Yes	Yes	1	YARD	
11	OAKCREST ROAD	1986	Yes	No	No			
11	OAKCREST ROAD	2008	Yes					
14	OAKCREST ROAD	1985	Yes	Yes	Yes		GROUND	
14	OAKCREST ROAD	2008	No					
17	OAKCREST ROAD	1986	Yes	Yes	Yes		GROUND	
17	OAKCREST ROAD	2008	No					
21	OAKCREST ROAD	1985	Yes	No	No			
21	OAKCREST ROAD	2008	No					
44	OAKCREST ROAD	1985	Yes	No	No			
44	OAKCREST ROAD	2008	Yes	Yes				
49	OAKCREST ROAD	1991	No					



49	OAKCREST ROAD	2008	Yes				
50	OAKCREST ROAD	2008	No				
60	OAKCREST ROAD	2008	Yes	No			
61	OAKCREST ROAD	2008	Yes	No			
66	OAKCREST ROAD	2008	Yes	No			ON SEPTIC
72	OAKCREST ROAD	1985	Yes	No	No		0.0020
72	OAKCREST ROAD	2008	Yes	No			
6	OAKHURST CIRCLE	1985	Yes	No	Yes	DRAIN	
14	OAKHURST CIRCLE	1986	Yes	No	No		
15	OAKHURST CIRCLE	1985	Yes	No	No		
18	OAKHURST CIRCLE	1986	Yes	Yes	Yes	GROUND	
22	OAKHURST CIRCLE	1986	Yes	Yes	Yes	GROUND	
23	OAKHURST CIRCLE	1989	Yes	No	No		
24	OAKHURST CIRCLE	1985	Yes	No	Yes	GROUND	
28	OAKHURST CIRCLE	1985	Yes	No	No		
32	OAKHURST CIRCLE	1985	Yes	No	No		
35	OAKHURST CIRCLE	1985	Yes	No	No		
40	OAKHURST CIRCLE	1985	Yes	No	No		
41	OAKHURST CIRCLE	1985	Yes	No	No		
42	OAKHURST CIRCLE	1986	Yes	No	No		
43	OAKHURST CIRCLE	1986	Yes	No	No		
52	OAKKNOLL TERRACE	1994	No				ROOF LEADER
12	OAKLAND AVE	1985	No				
16	OAKLAND AVE	1985	Yes	No	No		
20	OAKLAND AVE	1985	Yes	No	No		
22	OAKLAND AVE	1985	Yes	No	No		
38	OAKLAND AVE	1985	No				
48	OAKLAND AVE	1985	Yes	No	No		
56	OAKLAND AVE	1985	Yes	No	No		
62	OAKLAND AVE	1985	Yes	No	No		
68	OAKLAND AVE	1985	Yes	No	No		
15	OLD FARM ROAD	1988	Yes	Yes	Yes	GROUND	
20	OLD FARM ROAD	1988	Yes	Yes	Yes	DRAIN	
25	OLD FARM ROAD	1988	Yes	Yes	Yes	DRAIN	
28	OLD FARM ROAD	1988	Yes	No	No		
31	OLD FARM ROAD	1988	Yes	No	No		
38	OLD FARM ROAD	1988	Yes	No	No		
39	OLD FARM ROAD	1986	Yes	No	No		
46	OLD FARM ROAD	1986	Yes	No	Yes	SEWER	
49	OLD FARM ROAD	1989	No				
59	OLD FARM ROAD	1988	Yes	No	No		
67	OLD FARM ROAD	1986	Yes	No	Yes	GROUND	
68	OLD FARM ROAD	1988	Yes	No	No		
75	OLD FARM ROAD	1988	Yes	No	Yes	GROUND	



76	OLD FARM ROAD	1988	Yes	Yes	Yes	GROUND	
83	OLD FARM ROAD	1986	Yes	No	No	GROUND	
88	OLD FARM ROAD	1986	Yes	No	No		
89	OLD FARM ROAD	1986	Yes	Yes	Yes	PLUMBING	
96	OLD FARM ROAD	1989	No	res	163	PLUIVIBING	
97	OLD FARM ROAD	1989	Yes	No	No		
102	OLD FARM ROAD	1986	No	INO	INO		
102	OLD FARM ROAD	1989	No				
107	OLD FARM ROAD	1986	Yes	No	No		
110	OLD FARM ROAD	1989	Yes	No	No		
110	OLD FARM ROAD	1989		Yes	Yes	GROUND	
			Yes	†	+	GROUND	
5	OTIS STREET	1986	Yes	No	No		
15	OTIS STREET	1986	Yes	No	No		
20	OTIS STREET	1988	No	NI.			
21	OTIS STREET	1986	Yes	No	No		
25	OTIS STREET	1988	Yes	No	No		
26	OTIS STREET	1988	Yes	No	No		
35	OTIS STREET	1988	No				
59	OTIS STREET	1988	No	?	?	Ş	NO SUCH ADDRESS?
60	OTIS STREET	1986	Yes	No	No		
65	OTIS STREET	1988	No				
66	OTIS STREET	1988	No				
75	OTIS STREET	1988	Yes	No	No		
3	OVERLOOK ROAD	1985	No				
3	OVERLOOK ROAD	2008	No				
8	OVERLOOK ROAD	1985	Yes	No	No		
8	OVERLOOK ROAD	2008	No				
15	OVERLOOK ROAD	1986	Yes	No	No		
15	OVERLOOK ROAD	2008	No				
18	OVERLOOK ROAD	1986	Yes	No	No		
18	OVERLOOK ROAD	2008	Yes	No			
19	OVERLOOK ROAD	1989	Yes	No	No		
19	OVERLOOK ROAD	2008	No				
11	OXBOW ROAD	1987	Yes	No	No		
33	OXBOW ROAD	1987	Yes	No	No		
41	OXBOW ROAD	1987	Yes	No	Yes	OTHER	
50	OXBOW ROAD	1987	No				
53	OXBOW ROAD	1987	Yes	No	No		
62	OXBOW ROAD	1987	Yes	No	No		
65	OXBOW ROAD	1987	No				
76	OXBOW ROAD	1987	Yes	No	No		
77	OXBOW ROAD	1988	Yes	Yes	Yes	SEWER	
89	OXBOW ROAD	1988	Yes	No	No		
94	OXBOW ROAD	1987	Yes	No	No		



99	OXBOW ROAD	1987	Yes	No	No		
120	OXBOW ROAD	1987	No	-			
125	OXBOW ROAD	1988	Yes	No	Yes	GROUND	
131	OXBOW ROAD	1987	Yes	No	Yes	GROUND	
147	OXBOW ROAD	1987	No				
150	OXBOW ROAD	1987	Yes	No	No		
159	OXBOW ROAD	1987	Yes	No	No		
170	OXBOW ROAD	1987	Yes	No	No		
177	OXBOW ROAD	1987	Yes	No	Yes	GROUND	
65	PAGE ROAD	1988	Yes	No	No		
68	PAGE ROAD	1989	Yes	No	No		
73	PAGE ROAD	1988	Yes	No	No		
74	PAGE ROAD	1988	Yes	No	No		
77	PAGE ROAD	1988	Yes	Yes	Yes	GROUND	
85	PAGE ROAD	1988	Yes	Yes	Yes	GROUND	
89	PAGE ROAD	1988	Yes	No	No		
22	PARISH ROAD	1988	No				
41	PARISH ROAD	1986	Yes	No	No		
71	PARISH ROAD	1986	Yes	No	No		
76	PARISH ROAD	1988	Yes	No	No		
94	PARISH ROAD	1986	Yes	No	No		
106	PARISH ROAD	1988	Yes	No	No		
114	PARISH ROAD	1988	No				
122	PARISH ROAD	1988	No				
190	PARISH ROAD	1988	Yes	No	No		
12/14	PARISH ROAD	1986	Yes	No	No		
46/48	PARISH ROAD	1988	Yes	Yes	No		
50/54	PARISH ROAD	1986	Yes	No	Yes	GROUND	
63/65	PARISH ROAD	1986	No				
64/66	PARISH ROAD	1988	Yes	No	No		
70/72	PARISH ROAD	1988	Yes	No	No		
9	PARK AVE	1989	Yes	No	No		
12	PARK AVE	1985	Yes	No	No		
15	PARK AVE	1986	Yes	No	No		
22	PARK AVE	1985	Yes	No	No		
23	PARK AVE	1986	Yes	No	No		
30	PARK AVE	1986	Yes	No	No		
33	PARK AVE	1985	Yes	No	No		
36	PARK AVE	1985	Yes	No	No		
42	PARK AVE	1985	Yes	No	No		
45	PARK AVE	1989	No		ļ		
51	PARK AVE	1985	Yes	No	No		
54	PARK AVE	1989	No				
59	PARK AVE	1986	Yes	No	No		



60	PARK AVE	1986	Yes	Yes	Yes	DRAIN	
	PARK AVE PARKER ROAD				+	DRAIN	
7		1989	Yes	No	No		
9	PARKER ROAD	1986	Yes	No	No	CDOLIND	
15	PARKER ROAD	1989	Yes	Yes	Yes	GROUND	
23	PARKER ROAD	1987	Yes	No	No		
28	PARKER ROAD	1989	No				
29	PARKER ROAD	1987	Yes	No	No		
45	PARKER ROAD		No				
51	PARKER ROAD	1989	Yes	No	No		
54	PARKER ROAD	1987	Yes	No	No		
57	PARKER ROAD	1987	Yes	Yes	Yes	SEWER	
60	PARKER ROAD	1987	Yes	No	No		
67	PARKER ROAD	1989	No				
68	PARKER ROAD	1989	Yes	No	No		
73	PARKER ROAD	1989	Yes	No	No		
78	PARKER ROAD	1989	No				
79	PARKER ROAD	1987	Yes	No	No		
85	PARKER ROAD	1989	No				
93	PARKER ROAD	1989	Yes	Yes	Yes	GROUND	
103	PARKER ROAD	1989	No				
104	PARKER ROAD	1989	Yes	No	No		CLEANOUT NOT VISIBLE
110	PARKER ROAD	1989	No				
111	PARKER ROAD	1989	Yes	No	No		
118	PARKER ROAD	1989	No				
119	PARKER ROAD	1987	Yes	No	No		
124	PARKER ROAD	1989	Yes	No	No		
129	PARKER ROAD	1987	Yes	No	No		
130	PARKER ROAD	1987	Yes	No	No		
136	PARKER ROAD	1987	Yes	No	No		
139	PARKER ROAD	1989	Yes	No	No		
142	PARKER ROAD	1989	Yes	No	No		
147	PARKER ROAD	1989	Yes	No	No		
150	PARKER ROAD	1989	Yes	No	No		
153	PARKER ROAD	1989	Yes	No	No		
158	PARKER ROAD	1987	Yes	No	No		
159	PARKER ROAD	1987	Yes	No	No		
166	PARKER ROAD	1989	Yes	No	No		
167	PARKER ROAD	1989	Yes	No	No		
174	PARKER ROAD	1989	No				
177	PARKER ROAD	1989	No				
180	PARKER ROAD	1989	No				
190	PARKER ROAD	1987	Yes	No	No		
5	PARKINSON STREET	1988	No	1.5			
14	PARKINSON STREET	1986	Yes	No	No		



15	PARKINSON STREET	1987	Yes	No	No		
19	PARKINSON STREET	1986	Yes	No	No		
24	PARKINSON STREET	1988	No	110	110		
25	PARKINSON STREET	1986	Yes	No	No		
33	PARKINSON STREET	1988	No	110	110		
34	PARKINSON STREET	1986	No				
47	PARKINSON STREET	1988	Yes	No	No		
53	PARKINSON STREET	1988	Yes	No	No		
57	PARKINSON STREET	1988	Yes	No	No		
60	PARKINSON STREET	1988	Yes	No	No		
64	PARKINSON STREET	1988	Yes	No	No		
69	PARKINSON STREET	1986	Yes	No	No		
70	PARKINSON STREET	1986	Yes	No	No		
3	PARKLAND ROAD	1988	Yes	No	No		
8	PARKLAND ROAD	1988	Yes	No	No		
14	PARKLAND ROAD	1988	No	110	110		
17	PARKLAND ROAD	1988	Yes	No	No		
18	PARKLAND ROAD	1988	Yes	No	No		
26	PARKLAND ROAD	1986	Yes	No	No		
27	PARKLAND ROAD	1986	Yes	No	No		
30	PARKLAND ROAD	1988	No				
31	PARKLAND ROAD	1988	No				
38	PARKLAND ROAD	1986	Yes	No	No		
-	PARKLAND ROAD	1986	Yes	No	No		
5	PAUL REVERE ROAD	1989	No				
8	PAUL REVERE ROAD	1989	No				
11	PAUL REVERE ROAD	1989	No				
24	PAUL REVERE ROAD	1987	No				
34	PAUL REVERE ROAD	1989	Yes	No	No		
37	PAUL REVERE ROAD	1987	Yes	No	No		
40	PAUL REVERE ROAD	1989	Yes	No	No		
48	PAUL REVERE ROAD	1989	No				
49	PAUL REVERE ROAD	1989	No				
56	PAUL REVERE ROAD	1987	Yes	No	No		
62	PAUL REVERE ROAD	1987	No				
65	PAUL REVERE ROAD	1987	Yes	No	No		
72	PAUL REVERE ROAD	1989	No				
77	PAUL REVERE ROAD	1987	Yes	No	No		
83	PAUL REVERE ROAD	1987	Yes	No	No		
84	PAUL REVERE ROAD	1987	No				
90	PAUL REVERE ROAD	1989	No				
93	PAUL REVERE ROAD	1989	No				
96	PAUL REVERE ROAD	1987	Yes	No	No		
100	PAUL REVERE ROAD	1987	Yes	No	No		



103	PAUL REVERE ROAD	1987	No					
108	PAUL REVERE ROAD	1989	No					
109	PAUL REVERE ROAD	1987	Yes	No	No			
117	PAUL REVERE ROAD	1989	No	140	110			
123	PAUL REVERE ROAD	1989	Yes	No	No			
131	PAUL REVERE ROAD	1989	No	140	110			
146	PAUL REVERE ROAD	1989	No					
149	PAUL REVERE ROAD	1989	No					
152	PAUL REVERE ROAD	1989	No					
157	PAUL REVERE ROAD	1987	Yes	No	No			
160	PAUL REVERE ROAD	1987	Yes	No	No			
163	PAUL REVERE ROAD	1989	Yes	No	No			
168	PAUL REVERE ROAD	1989	Yes	No	No			
171	PAUL REVERE ROAD	1987	Yes	No	No			
179	PAUL REVERE ROAD	1987	No	.,,	.,,	+		
185	PAUL REVERE ROAD	1989	Yes	No	No	†		
5	PEACEDALE ROAD	1987	Yes	No	No			
6	PEACEDALE ROAD	1988	Yes	Yes	Yes		GROUND	
14	PEACEDALE ROAD	1989	No		1.00		0.100.110	
15	PEACEDALE ROAD	1988	Yes	No	No			
15	PEACEDALE ROAD	1989	No	-				
17	PEACEDALE ROAD	1988	Yes	No	No			
17	PEACEDALE ROAD	1989	No	-				
18	PEACEDALE ROAD	1987	Yes	No	No			
20	PEACEDALE ROAD	1987	Yes	No	No			
21	PEACEDALE ROAD	1986	Yes	No	No			
27	PEACEDALE ROAD	1985	Yes	No	No			
28	PEACEDALE ROAD	1981	Yes	No	No			
28	PEACEDALE ROAD	1989	Yes	No	No			
29	PEACEDALE ROAD	1989	Yes	No	No			
33	PEACEDALE ROAD	1985	Yes	No	No			
34	PEACEDALE ROAD	1985	Yes	No	No			
35	PEACEDALE ROAD	1988	Yes	No	Yes		GROUND	
36	PEACEDALE ROAD	1989	No					
41	PEACEDALE ROAD	1985	Yes	No	No			
42	PEACEDALE ROAD	1986	Yes	No	No			
42	PEACEDALE ROAD	1987	Yes	Yes	No			
43	PEACEDALE ROAD	1988	Yes	No	Yes		GROUND	
48	PEACEDALE ROAD	1981	Yes	No	No			
48	PEACEDALE ROAD	1989	Yes	Yes	Yes		SINK	
54	PEACEDALE ROAD	1985	Yes	No	No			
59	PEACEDALE ROAD	1987	Yes	No	No			
64	PEACEDALE ROAD	1988	Yes	No	No			
67	PEACEDALE ROAD	1989	No					



75	PEACEDALE ROAD	1987	Yes	No	No		
86	PEACEDALE ROAD	1989	Yes	No	No		
92	PEACEDALE ROAD	1989	Yes	No	No		
93	PEACEDALE ROAD	1988	No				
96	PEACEDALE ROAD	1989	No				
99	PEACEDALE ROAD	1988	Yes	No	No		
104	PEACEDALE ROAD	1988	Yes	No	No		
12	PERRY DRIVE	1986	Yes	No	No		
12	PERRY DRIVE	2008	No				
21	PERRY DRIVE	2008	Yes	No			
27	PERRY DRIVE	2008	Yes	No			
28	PERRY DRIVE	2008	No				
33	PERRY DRIVE	2008	Yes	No			
34	PERRY DRIVE	2008	Yes	No			
41	PERRY DRIVE	2008	Yes	No			
42	PERRY DRIVE	2008	Yes	No			
48	PERRY DRIVE	2008	No				
54	PERRY DRIVE	2008	No				
4	PERSHING ROAD	1986	Yes	No	No		
11	PERSHING ROAD	1988	Yes	No	No		
12	PERSHING ROAD	1988	Yes	No	No		
16	PERSHING ROAD	1988	No				NO SEWER
21	PERSHING ROAD		No				
34	PERSHING ROAD	1987	Yes	No	No		
35	PERSHING ROAD	1987	No				
42	PERSHING ROAD	1987	Yes	No	No		
43	PERSHING ROAD	1987	Yes	No	No		
50	PERSHING ROAD	1987	Yes	No	No		
59	PERSHING ROAD	1988	Yes	No	No		
60	PERSHING ROAD	1988	Yes	No	No		
22/24	PERSHING ROAD	1986	Yes	No	No		
8	PETRINI CIRCLE	1986	Yes	No	No		
11	PETRINI CIRCLE	1988	Yes	No	No		
12	PETRINI CIRCLE	1986	No				
16	PETRINI CIRCLE	1986	Yes	No	No		
21	PETRINI CIRCLE	1986	Yes	No	No		
22	PETRINI CIRCLE	1986	Yes	No	No		
27	PETRINI CIRCLE	1986	No				
28	PETRINI CIRCLE	1986	Yes	No	No		
35	PETRINI CIRCLE	1986	Yes	No	No		
36	PETRINI CIRCLE	1986	Yes	No	No		
41	PETRINI CIRCLE	1986	Yes	No	No		
42	PETRINI CIRCLE	1988	Yes	No	No		
49	PETRINI CIRCLE	1986	Yes	No	No		



19 PHEASANT ROAD 1987 Yes No No 20 PHEASANT ROAD 1987 Yes No No	
25 PHEASANT ROAD 1988 No	
31 PHEASANT ROAD 1988 Yes No No	
9 PICKERING PLACE 1985 No	
10 PICKERING PLACE 1985 No	
13 PICKERING PLACE 1985 Yes No No	
14 PICKERING PLACE 1985 Yes No No	
76 PICKERING STREET 1985 Yes No No	
80 PICKERING STREET 1989 Yes No No	
117 PICKERING STREET 1989 Yes No No	
123 PICKERING STREET 1986 Yes No No	
127 PICKERING STREET 1985 Yes No No	
131 PICKERING STREET 1985 Yes No No	
137 PICKERING STREET 1986 Yes No No	
143 PICKERING STREET 1985 Yes No No	
147 PICKERING STREET 1985 Yes No No	
12 PILGRIM ROAD 1989 Yes No No	
26 PILGRIM ROAD 1985 Yes No No	
32 PILGRIM ROAD 1986 Yes No No	
40 PILGRIM ROAD 1986 Yes No No	
46 PILGRIM ROAD 1985 Yes No No	
51 PILGRIM ROAD 1985 Yes No No	
52 PILGRIM ROAD 1986 Yes No No	
57 PILGRIM ROAD 1986 Yes No No	
60 PILGRIM ROAD 1986 Yes No No	
65 PILGRIM ROAD 1988 Yes No No	
66 PILGRIM ROAD 1985 Yes No No	
71 PILGRIM ROAD 1986 Yes No No	
74 PILGRIM ROAD 1989 No	
77 PILGRIM ROAD 1989 No	
80 PILGRIM ROAD 1986 Yes No No	
85 PILGRIM ROAD 1986 Yes No No	
86 PILGRIM ROAD 1985 Yes No No	
18 PINE GROVE STREET 1986 Yes No No	
21 PINE GROVE STREET 1986 Yes No No	
24 PINE GROVE STREET 1986 Yes No No	
27 PINE GROVE STREET 1988 Yes No No	
28 PINE GROVE STREET 1988 Yes No No	
36 PINE GROVE STREET 1988 Yes No No	
37 PINE GROVE STREET 1988 No	
41 PINE GROVE STREET 1988 No	
50 PINE GROVE STREET 1986 Yes No No	
60 PINE GROVE STREET Yes No No	



C1	PINE GROVE STREET	1986	Voc	No	No		
61 67			Yes	No	No		
	PINE GROVE STREET	1986	Yes	No	No		
75	PINE GROVE STREET	1986	Yes	No	No		
82	PINE GROVE STREET	1988	No	NI.	—		
88	PINE GROVE STREET	1986	Yes	No	No		
94	PINE GROVE STREET	1986	No				CELUED MOT COMMENTS
95	PINE GROVE STREET	1986	No				SEWER NOT CONNECTED
100	PINE GROVE STREET	1986	Yes	No	No		
101	PINE GROVE STREET	1988	No		.		
109	PINE GROVE STREET	1986	Yes	No	No		
110	PINE GROVE STREET	1988	No				
115	PINE GROVE STREET	1988	Yes	No	No		
118	PINE GROVE STREET	1986	Yes	No	No		
140	PINE GROVE STREET	1986	Yes	No	No		
144	PINE GROVE STREET	1986	Yes	No	No		
145	PINE GROVE STREET	1986	Yes	No	No		
148	PINE GROVE STREET	1986	No				SEWER NOT CONNECTED
162	PINE GROVE STREET	1986	Yes	No	No		
168	PINE GROVE STREET	1986	Yes	Yes	Yes	GROUND	
174	PINE GROVE STREET	1986	No				
182	PINE GROVE STREET	1986	Yes	No	Yes		SUMP PUMP NOT CONNECTED
190	PINE GROVE STREET	1986	Yes	Yes	Yes	PLUMBING	
191	PINE GROVE STREET	1988	Yes	No	No		
197	PINE GROVE STREET	1986	Yes	No	No		
198	PINE GROVE STREET	1986	Yes	No	No		
4/6	PINE GROVE STREET	1986	No				
6	PINEWOOD ROAD	1986	Yes	No	No		
14	PINEWOOD ROAD	1986	No				
15	PINEWOOD ROAD	1986	Yes	No	No		
20	PINEWOOD ROAD	1986	No				
23	PINEWOOD ROAD	1986	Yes	No	No		
26	PINEWOOD ROAD	1986	Yes	No	No		
29	PINEWOOD ROAD	1986	No				
32	PINEWOOD ROAD	1986	No				
35	PINEWOOD ROAD	1986	No				
36	PINEWOOD ROAD	1986	Yes	No	No		
41	PINEWOOD ROAD	1986	No				
42	PINEWOOD ROAD	1986	No				
47	PINEWOOD ROAD	1986	Yes	No	No		
48	PINEWOOD ROAD	1986	Yes	No	No		
53	PINEWOOD ROAD	1986	No				
54	PINEWOOD ROAD	1986	Yes	No	No		
57	PINEWOOD ROAD	1986	No				



58	PINEWOOD ROAD	1986	No				SEWER NOT CONNECTED
63	PINEWOOD ROAD	1986	Yes	No	No		
64	PINEWOOD ROAD	1988	Yes	No	No		
69	PINEWOOD ROAD	1986	Yes	No	No		
70	PINEWOOD ROAD	1986	Yes	No	No		
73	PINEWOOD ROAD	1988	Yes	No	No		
74	PINEWOOD ROAD	1988	Yes	No	No		
79	PINEWOOD ROAD	1988	Yes	No	No		
80	PINEWOOD ROAD	1988	Yes	No	No		
11	PLEASANT STREET	1987	Yes	No	No		
15	PLEASANT STREET	1988	Yes	No	No		
26	PLEASANT STREET	1988	No				
28	PLEASANT STREET	1988	No				
29	PLEASANT STREET	1987	Yes	No	No		
30	PLEASANT STREET	1987	No				CLEANOUT NOT VISIBLE
34	PLEASANT STREET	1988	Yes	No	No		
37	PLEASANT STREET	1988	No				
41	PLEASANT STREET	1988	No				
44	PLEASANT STREET	1988	No				
46	PLEASANT STREET	1988	Yes	No	No		
52	PLEASANT STREET	1988	No				
61	PLEASANT STREET	1988	No				
62	PLEASANT STREET	1988	No				
67	PLEASANT STREET	1987	Yes	No	No		CLEANOUT NOT VISIBLE
68	PLEASANT STREET	1988	Yes	Yes	Yes	GROUND	022/11/03 : 110 : 110:1322
73	PLEASANT STREET	1987	Yes	No	No	5.10 5.115	
74	PLEASANT STREET	1987	Yes	No	No		CLEANOUT NOT VISIBLE
78	PLEASANT STREET	1988	No				
79	PLEASANT STREET	1988	No				
80	PLEASANT STREET	1988	No				
87	PLEASANT STREET	1988	No				
88	PLEASANT STREET	1987	Yes	No	No		CLEANOUT NOT VISIBLE
89	PLEASANT STREET	1988	No				
22/24	PLEASANT STREET	1987	Yes	No	No		
38/40	PLEASANT STREET	1987	Yes	No	No		
87/89	PLEASANT STREET	1987	No				
3	PLYMOUTH ROAD	1986	Yes	No	No		
12	PLYMOUTH ROAD	1986	Yes	No	No		
14	PLYMOUTH ROAD	1986	No				
17	PLYMOUTH ROAD	1988	Yes	No	No		
18	PLYMOUTH ROAD	1986	Yes	No	No		
25	PLYMOUTH ROAD	1986	Yes	No	No		
26	PLYMOUTH ROAD	1988	Yes	No	No		
31	PLYMOUTH ROAD	1986	Yes	No	No		



32	PLYMOUTH ROAD	1986	Yes	No	No		
37	PLYMOUTH ROAD	1986	Yes	No	No		
38	PLYMOUTH ROAD	1988	Yes	No	Yes	GROUND	
45	PLYMOUTH ROAD	1986	Yes	No	No		
46	PLYMOUTH ROAD	1988	Yes	No	No		
51	PLYMOUTH ROAD	1988	Yes	No	No		
52	PLYMOUTH ROAD	1986	Yes	No	No		
57	PLYMOUTH ROAD	1986	Yes	No	No		
58	PLYMOUTH ROAD	1986	Yes	Yes	Yes	GROUND	
63	PLYMOUTH ROAD	1986	Yes	No	No		
64	PLYMOUTH ROAD	1988	Yes	No	No		
69	PLYMOUTH ROAD	1988	Yes	No	No		
70	PLYMOUTH ROAD	1988	No				
75	PLYMOUTH ROAD	1986	Yes	No	No		
76	PLYMOUTH ROAD	1988	Yes	No	No		
83	PLYMOUTH ROAD	1988	Yes	No	No		
86	PLYMOUTH ROAD	1986	Yes	No	No		
96	PLYMOUTH ROAD	1986	No	-			
97	PLYMOUTH ROAD	1986	No				
104	PLYMOUTH ROAD	1986	Yes	No	No		
108	PLYMOUTH ROAD	1986	Yes	No	No		
131	PLYMOUTH ROAD	1984	No				
134	PLYMOUTH ROAD	1986	Yes	No	No		
139	PLYMOUTH ROAD	1986	Yes	No	No		
140	PLYMOUTH ROAD	1986	No				
147	PLYMOUTH ROAD	1986	No				
148	PLYMOUTH ROAD	1986	Yes	No	Yes	GROUND	
153	PLYMOUTH ROAD	1986	Yes	No	Yes	GROUND	
159	PLYMOUTH ROAD	1986	No				
11	POND STREET	1986	Yes	No	No		
20	POND STREET	1986	Yes	No	No		
34	POND STREET	1986	Yes	No	No		
35	POND STREET	1986	Yes	No	No		
40	POND STREET	1986	Yes	Yes	No		
46	POND STREET	1986	Yes	No	No		
49	POND STREET	1986	Yes	Yes	No		
52	POND STREET	1986	Yes	No	No		
55	POND STREET	1986	Yes	No	No		
58	POND STREET	1986	Yes	No	No		
63	POND STREET	1986	Yes	No	No		
64	POND STREET	1986	Yes	No	No		
72	POND STREET	1986	Yes	No	No		
1	POWDER HOUSE CIRCLE	1985	Yes	No	No		
7	POWDER HOUSE CIRCLE	1986	Yes	No	No		



11	POWDER HOUSE CIRCLE	1986	No				
15	POWDER HOUSE CIRCLE	1985	Yes	No	No		
21	POWDER HOUSE CIRCLE	1986	No	110	110		
29	POWERS STREET	1988	Yes	No	No		
33	POWERS STREET	1986	Yes	No	No		
39	POWERS STREET	1986	Yes	No	No		
47	POWERS STREET	1988	Yes	No	No		
50	POWERS STREET	1988	Yes	No	No		
55	POWERS STREET	1988	Yes	No	No		
59	POWERS STREET	1988	Yes	No	No		
71	POWERS STREET	1988	Yes	No	No		
72	POWERS STREET	1986	Yes	No	No		
76	POWERS STREET	1988	No	-	No		
81	POWERS STREET	1986	Yes	No	No		
82	POWERS STREET	1988	Yes	No	No		
102	POWERS STREET	1988	No				
103	POWERS STREET	1988	Yes	No	No		
109	POWERS STREET	1988	Yes	No	No		
113	POWERS STREET	1988	Yes	No	No		
114	POWERS STREET	1986	Yes	No	No		
119	POWERS STREET	1986	Yes	No	No		
120	POWERS STREET	1988	Yes	No	No		
126	POWERS STREET	1986	Yes	No	No		
4	PRINCE STREET	1986	No				
11	PRINCE STREET	1986	Yes	No	No		
12	PRINCE STREET	1988	Yes	No	No		
17	PRINCE STREET	1988	Yes	No	No		
18	PRINCE STREET	1986	Yes	No	No		
21	PRINCE STREET	1986	Yes	No	No		
26	PRINCE STREET	1986	Yes	No	No		
27	PRINCE STREET	1988	Yes	No	No		
32	PRINCE STREET	1986	Yes	No	No		
35	PRINCE STREET	1988	No				
38	PRINCE STREET	1988	Yes	No	No		
39	PRINCE STREET	1988	Yes	No	No		
44	PRINCE STREET	1988	Yes	No	No		
45	PRINCE STREET	1988	Yes	No	No		
50	PRINCE STREET	1986	Yes	No	No		
51	PRINCE STREET	1986	No		ļ		SEWER NOT CONNECTED
58	PRINCE STREET	1988	No				
62	PRINCE STREET	1988	Yes	No	No		
63	PRINCE STREET	1986	Yes	No	No		
69	PRINCE STREET	1988	Yes	No	No		
72	PRINCE STREET	1988	Yes	No	No		



75	PRINCE STREET	1988	Yes	No	No		
76	PRINCE STREET	1986	Yes	No	No		
81		1988	Yes	No	No		CLEANOUT NOT VISIBLE
84	PRINCE STREET PRINCE STREET	1988	No	INO	INO		CLEANOUT NOT VISIBLE
87	PRINCE STREET PRINCE STREET	1986	Yes	No	No		
90	PRINCE STREET PRINCE STREET	1986	Yes	No	No		
94	PRINCE STREET PRINCE STREET	1986	Yes	No	No		
100	PRINCE STREET PRINCE STREET	1988	Yes	No	No		
121		1988		No	+		
126	PRINCE STREET PRINCE STREET	1988	Yes No	INO	No		
		1988		No	No		
133	PRINCE STREET		Yes	No	No		CLEANOLIT NOT VICIBLE
134	PRINCE STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
140	PRINCE STREET	1988	Yes	No	No		
147	PRINCE STREET	1988	No	NI.	N1 -		
148	PRINCE STREET	1988	Yes	No	No		
153	PRINCE STREET	1986	Yes	No	No		
154	PRINCE STREET	1988	Yes	No	No		
1	PROSPECT STREET	1987	Yes	No	No		
5	PROSPECT STREET	1988	Yes	No	No		
8	PROSPECT STREET	1988	Yes	No	No		
9	PROSPECT STREET	1988	Yes	No	No		
9	PROSPECT STREET	1994	No				ROOF LEADER
15	PROSPECT STREET	1987	Yes	No	No		
19	PROSPECT STREET	1988	No				
20	PROSPECT STREET	1988	Yes	No	No		
25	PROSPECT STREET	1988	Yes	No	No		
25	PROSPECT STREET	1994	No				ROOF LEADER
47	PROSPECT STREET	1987	Yes	No	No		
50	PROSPECT STREET	1987	Yes	No	No		
56	PROSPECT STREET	1988	No				
57	PROSPECT STREET	1988	Yes	No	No		
60	PROSPECT STREET	1988	Yes	No	No		
61	PROSPECT STREET	1988	No				
64	PROSPECT STREET	1988	Yes	No	No		
70	PROSPECT STREET	1988	Yes	No	No		
11	PYTHAIS CIRCLE	1988	No				
14	PYTHAIS CIRCLE	1988	Yes	No			
20	PYTHAIS CIRCLE	1988	Yes	No	No		
2	RAE AVE	1986	Yes	No	No		
5	RAE AVE	1986	Yes	No	No		
10	RAE AVE	1988	Yes	Yes	Yes	GROUND	
11	RAE AVE	1988	Yes	No	No		
16	RAE AVE	1986	Yes	No	No		
19	RAE AVE	1988	Yes	No	No		



25	RAE AVE	1988	Yes	No	No		
32	RAE AVE	1986	Yes	Yes	Yes	GROUND	
33	RAE AVE	1989	Yes	Yes	Yes	GROUND	
36	RAE AVE	1986	Yes	Yes	Yes	CHOONS	
41	RAE AVE	1988	Yes	No	No		
44	RAE AVE	1986	Yes	No	No		
47	RAE AVE	1989	No				
50	RAE AVE	1988	Yes	No	No		
58	RAE AVE	1986	Yes	No	No		
26	RESERVOIR AVE	1980	Yes	No	No		
30	RESERVOIR AVE	1986	Yes	No	No		
31	RESERVOIR AVE	1988	Yes	No	No		
38	RESERVOIR AVE	1986	Yes	No	No		
44	RESERVOIR AVE	1988	Yes	No	No		
6	RESERVOIR PARK	1988	Yes	No	No		
15	RESERVOIR PARK	1986	Yes	No	No		
67	RESERVOIR STREET	1986	Yes	No	No		
70	RESERVOIR STREET	1986	Yes	No	No		
79	RESERVOIR STREET	1988	No				
82	RESERVOIR STREET	1988	Yes	No	No		
88	RESERVOIR STREET	1988	Yes	No	No		
94	RESERVOIR STREET	1988	Yes	No	No		
99	RESERVOIR STREET	1988	Yes	No	No		
102	RESERVOIR STREET	1988	No				
109	RESERVOIR STREET	1988	No				
112	RESERVOIR STREET	1986	Yes	No	No		
120	RESERVOIR STREET	1988	No				
125	RESERVOIR STREET	1986	Yes	No	No		
143	RESERVOIR STREET	1988	No				
152	RESERVOIR STREET	1988	Yes	No	No		
162	RESERVOIR STREET	1986	Yes	No	No		
163	RESERVOIR STREET	1988	Yes	No	No		
171	RESERVOIR STREET	1986	Yes	No	No		
164/166	RESERVOIR STREET	1986	No				
9	RICHARDS ROAD	1986	Yes	No	No		
15	RICHARDS ROAD	1986	Yes	No	Yes	GROUND	
19	RICHARDS ROAD	1986	Yes	No	Yes	GROUND	
22	RICHARDS ROAD	1986	Yes	No	No		
27	RICHARDS ROAD	1986	Yes	Yes	Yes	GROUND	
28	RICHARDS ROAD	1986	Yes	No	No		
37	RICHARDS ROAD	1986	Yes	Yes	Yes	PLUMBING	
38	RICHARDS ROAD	1988	Yes	No	No		
44	RICHARDS ROAD	1986	Yes	No	No		
47	RICHARDS ROAD	1986	No				



			T	T	T	Τ		
52	RICHARDS ROAD	1986	Yes	No	No			
53	RICHARDS ROAD	1986	No					
59	RICHARDS ROAD	1986	Yes	No	No			
60	RICHARDS ROAD	1986	No					
66	RICHARDS ROAD	1986	Yes	No	No			
67	RICHARDS ROAD	1986	Yes	No	No			
73	RICHARDS ROAD	1986	No					
74	RICHARDS ROAD	1986	Yes	No	No			
79	RICHARDS ROAD	1986	Yes	No	No			
80	RICHARDS ROAD	1988	Yes	No	No			
85	RICHARDS ROAD	1986	No					
5	RICHARDSON DRIVE	1986	Yes	No	No			
5	RICHARDSON DRIVE	2008	Yes	Yes	Yes	1	YARD	
10	RICHARDSON DRIVE	1985	Yes	No	No			
10	RICHARDSON DRIVE	2008	Yes	No				
15	RICHARDSON DRIVE	1985	Yes	No	No			
15	RICHARDSON DRIVE	2008	No					
25	RICHARDSON DRIVE	1986	Yes	No	No			
25	RICHARDSON DRIVE	2008	Yes	No				
30	RICHARDSON DRIVE	1986	Yes	No	No			
30	RICHARDSON DRIVE	2008	Yes	No				
40	RICHARDSON DRIVE	1985	Yes	No	No			
40	RICHARDSON DRIVE	2008	Yes	No				
43	RICHARDSON DRIVE	1986	Yes	No	No			
43	RICHARDSON DRIVE	2008	Yes	No				
50	RICHARDSON DRIVE	1986	Yes	No	No			
50	RICHARDSON DRIVE	2008	Yes	No				
55	RICHARDSON DRIVE	1986	Yes	No	No			
55	RICHARDSON DRIVE	2008	Yes	No				
65	RICHARDSON DRIVE	1986	Yes	Yes	Yes		GROUND	
65	RICHARDSON DRIVE	2008	Yes	No	Yes	1	YARD	
74	RICHARDSON DRIVE	1986	Yes	No	No			
74	RICHARDSON DRIVE	2008	Yes	No				
77	RICHARDSON DRIVE	1986	Yes	No	No			
77	RICHARDSON DRIVE	2008	Yes	Yes	Yes	1	OWNER SAYS TO	
			103	103		1	DRYWELL	
86	RICHARDSON DRIVE	1986	Yes	No	No			
86	RICHARDSON DRIVE	2008	Yes	Yes	Yes	1	YARD	
99	RICHARDSON DRIVE	1986	Yes	No	No			
99	RICHARDSON DRIVE	2008	Yes	No				
100	RICHARDSON DRIVE	1986	Yes	No	No			
100	RICHARDSON DRIVE	2008	Yes	Yes	Yes	1	YARD	
110	RICHARDSON DRIVE	1985	Yes	No	Yes		GROUND	
110	RICHARDSON DRIVE	2008	Yes	Yes	Yes	2	YARD	



111	RICHARDSON DRIVE	1985	Yes	No	No			
111	RICHARDSON DRIVE	2008	No	140	INO			
121	RICHARDSON DRIVE	1985	Yes	No	No			
121	RICHARDSON DRIVE	2008	No	140	INO			
122	RICHARDSON DRIVE	1985	Yes	No	No			
122	RICHARDSON DRIVE	2008	No	NO	INO			
122	MCHANDSON DRIVE	2008	INO				PIPE INTO GROUND	
133	RICHARDSON DRIVE	2008	Yes	Yes	Yes	1	OUTSIDE OF HOUSE	
138	RICHARDSON DRIVE	1985	Yes	Yes	No		OUTSIDE OF HOUSE	
138	RICHARDSON DRIVE	2008	No	103	INO			
149	RICHARDSON DRIVE	1986	Yes	No	No			
149	RICHARDSON DRIVE	2008	Yes	No	NO			
161	RICHARDSON DRIVE	1989	Yes	No	No			
161	RICHARDSON DRIVE	2008	Yes	No	INO			
170	RICHARDSON DRIVE	1986	Yes	No	No			
170	RICHARDSON DRIVE	2008	Yes	No	INO			
175	RICHARDSON DRIVE	1986	Yes	No	No			
175	RICHARDSON DRIVE	2008	No	INO	INO			
178	RICHARDSON DRIVE	1986	Yes	No	No			
178	RICHARDSON DRIVE	2008	No	INO	INO			
6	RICHDALE ROAD	1987	Yes	No	No			
11	RICHDALE ROAD	1989	No	INO	INO			
14	RICHDALE ROAD	1987	Yes	No	No			
27				1				
28	RICHDALE ROAD	1987	Yes	No	No			
36	RICHDALE ROAD	1989	Yes	No	No			
	RICHDALE ROAD	1987	Yes	No	No			
37 39	RICHDALE ROAD	1989	No	N	NI-			
	RICHDALE ROAD	1989	Yes	No	No			
40	RICHDALE ROAD	1989	Yes	No	No			
45 48	RICHDALE ROAD	1989	Yes	No	No			
51	RICHDALE ROAD	1989	No	N	NI-			
58	RICHDALE ROAD	1987	Yes	No	No			
58	RICHDALE ROAD	1989 1987	Yes	No	No			
	RICHDALE ROAD		Yes	No	No			
64	RICHDALE ROAD	1989	No	No	No			
65	RICHDALE ROAD	1989	Yes	No	No			
72	RICHDALE ROAD	1989	Yes	No	No			
81	RICHDALE ROAD	1989	Yes	No	No			
82	RICHDALE ROAD	1989	Yes	No	No			
89	RICHDALE ROAD	1989	Yes	No	No			
95	RICHDALE ROAD	1989	Yes	No	No			
96	RICHDALE ROAD	1989	Yes	No	No			
102	RICHDALE ROAD	1987	Yes	No	No			
103	RICHDALE ROAD	1989	No					



108	RICHDALE ROAD	1989	Yes	No	No		
109	RICHDALE ROAD	1987	Yes	Yes	Yes	GROUND	
114	RICHDALE ROAD	1987	Yes	No	No		
117	RICHDALE ROAD	1989	No				
122	RICHDALE ROAD	1989	No				
125	RICHDALE ROAD	1989	No				
131	RICHDALE ROAD	1987	Yes	No	No		
134	RICHDALE ROAD	1987	Yes	No	No		
139	RICHDALE ROAD	1989	Yes	No	No		
140	RICHDALE ROAD	1989	No				
145	RICHDALE ROAD	1989	No				
146	RICHDALE ROAD	1989	No				
151	RICHDALE ROAD	1989	Yes	No	No		
155	RICHDALE ROAD	1989	Yes	No	No		
157	RICHDALE ROAD	1989	Yes	No	No		
158	RICHDALE ROAD	1987	No				
167	RICHDALE ROAD	1989	Yes	Yes	Yes	GROUND	
168	RICHDALE ROAD	1987	Yes	No	No		
175	RICHDALE ROAD	1987	Yes	No	No		
181	RICHDALE ROAD	1989	No				
184	RICHDALE ROAD	1989	Yes	No	No		
9	RIDGEWAY AVE	1986	Yes	No	No		
10	RIDGEWAY AVE	1986	Yes	No	No		
17	RIDGEWAY AVE	1988	Yes	No	Yes	GROUND	
17	RIDGEWAY AVE	1988	Yes	No	No		
20	RIDGEWAY AVE	1986	Yes	No	No		
25	RIDGEWAY AVE	1986	Yes	Yes	Yes	GROUND	
32	RIDGEWAY AVE	1986	Yes	Yes	Yes	PLUMBING	
38	RIDGEWAY AVE	1986	Yes	No	No		
50	RIDGEWAY AVE	1988	No				
56	RIDGEWAY AVE	1988	Yes	No	No		
57	RIDGEWAY AVE	1988	No				
67	RIDGEWAY AVE	1986	No				
75	RIDGEWAY AVE	1986	Yes	No	No		
76	RIDGEWAY AVE	1986	Yes	No	No		
24	RIVARD ROAD	1988	Yes	No	No		
25	RIVARD ROAD	1988	Yes	No	No		
26	RIVARD ROAD	1988	Yes	Yes	Yes	GROUND	
30	RIVARD ROAD	1987	Yes	No	No		
31	RIVARD ROAD	1988	Yes	No	No		
36	RIVARD ROAD	1987	Yes	No	No		
37	RIVARD ROAD	1987	Yes	No	No		
42	RIVARD ROAD	1988	No				
45	RIVARD ROAD	1987	Yes	No	No		



50	RIVARD ROAD	1988	Yes	No	No			
51	RIVARD ROAD	1988	Yes	No	No			
62				No No				
65	RIVARD ROAD	1988	Yes	INO	No			
	RIVARD ROAD	1988	No	NI-	NI-			
4	RIVER PARK STREET	1988	Yes	No	No			
11	RIVER PARK STREET	1988	No					_
12	RIVER PARK STREET	1986	Yes	No	No			
14	RIVER PARK STREET	1986	Yes	No	No			_
15	RIVER PARK STREET	1986	Yes	No	No			
22	RIVER PARK STREET	1988	Yes	No	No			
23	RIVER PARK STREET	1988	No					
28	RIVER PARK STREET	1986	Yes	No	No			
34	RIVER PARK STREET	1986	No					
38	RIVER PARK STREET	1986	Yes	No	No			
44	RIVER PARK STREET	1986	Yes	No	No			
50	RIVER PARK STREET	1986	Yes	No	No			
11	ROBINWOOD AVE	1985	Yes	No	No			
14	ROBINWOOD AVE	1986	Yes	No	Yes		GROUND	
14	ROBINWOOD AVE	1986	Yes	No	No			
14	ROBINWOOD AVE	2008	Yes	Yes	Yes	1	YARD	
15	ROBINWOOD AVE	1986	Yes	No	No			
19	ROBINWOOD AVE	1991	No					
19	ROBINWOOD AVE	2008	Yes	Yes	Yes	1	HOSED TO YARD	
22	ROBINWOOD AVE	1986	Yes	No	No			
24	ROBINWOOD AVE	1985	Yes	No	No			
24	ROBINWOOD AVE	2008	No					
27	ROBINWOOD AVE	1985	Yes	Yes	Yes		GROUND	
27	ROBINWOOD AVE	2008	Yes	Yes	Yes	1	YARD	
28	ROBINWOOD AVE	1985	Yes	No	No			
28	ROBINWOOD AVE	2008	No					
30	ROBINWOOD AVE	1986	Yes	No	No			
35	ROBINWOOD AVE	1985	Yes	No	No			
35	ROBINWOOD AVE	2008	No					
36	ROBINWOOD AVE	1986	Yes	No	No			
36	ROBINWOOD AVE	2008	No					
39	ROBINWOOD AVE	1985	Yes	No	No			
39	ROBINWOOD AVE	2008	No					
42	ROBINWOOD AVE	1985	Yes	No	No			
42	ROBINWOOD AVE	2008	Yes	No				FRENCH DRAIN PRESENT (FROM OWNER)
47	ROBINWOOD AVE	2008	Yes	No				
50	ROBINWOOD AVE	1988	No					
50	ROBINWOOD AVE	2008	Yes					
53	ROBINWOOD AVE	1985	No					
J.J	NODII WOOD AVE	1,00	110	<u> </u>	I.	<u> </u>		



53	ROBINWOOD AVE	2008	Yes	No				
56	ROBINWOOD AVE	1985	Yes	No	No			
56	ROBINWOOD AVE	2008	No					
59	ROBINWOOD AVE	1985	Yes	No	No			
59	ROBINWOOD AVE	2008	Yes	No				
62	ROBINWOOD AVE	1985	Yes	No	No			
62	ROBINWOOD AVE	2008	Yes	Yes				
63	ROBINWOOD AVE	1985	Yes	Yes	No			
63	ROBINWOOD AVE	2008	Yes	Yes	Yes	1	OWNER SAYS TO DRYWELL	FRENCH DRAIN PRESENT (FROM OWNER)
68	ROBINWOOD AVE	2008	Yes	No				
71	ROBINWOOD AVE	1985	Yes	No	Yes		GROUND	
71	ROBINWOOD AVE	2008	No					
74	ROBINWOOD AVE	1986	Yes	Yes	Yes		GROUND	
74	ROBINWOOD AVE	2008	Yes	No	Yes	1	YARD	
75	ROBINWOOD AVE	2008	Yes	Yes	Yes	1	YARD	
77	ROBINWOOD AVE	1986	Yes	No	No			
80	ROBINWOOD AVE	1985	Yes	No	No			
80	ROBINWOOD AVE	2008	No					
88	ROBINWOOD AVE	2008	Yes	No				
91	ROBINWOOD AVE	2008	Yes	No				
96	ROBINWOOD AVE	1991	Yes	No	No			
96	ROBINWOOD AVE	2008	Yes	No				
?	ROBINWOOD AVE	2008	Yes	No	Yes	1	UNK	SUMP PUMP NOT YET INSTALLED
2	ROLLING LANE	1986	Yes	No	No			
12	ROLLING LANE	1988	Yes	No	No			
15	ROLLING LANE	1988	Yes	No	No			
18	ROLLING LANE	1988	No					
21	ROLLING LANE	1986	Yes	No	No			
24	ROLLING LANE	1988	Yes	No	No			
28	ROLLING LANE	1988	No					
34	ROLLING LANE	1988	Yes	No	No			
35	ROLLING LANE	1988	Yes	No	No			
41	ROLLING LANE	1988	Yes	No	No			
47	ROLLING LANE	1988	Yes	No	No			
60	ROLLING LANE	1986	Yes	No	No			
61	ROLLING LANE	1988	Yes	No	No			
66	ROLLING LANE	1986	Yes	No	No			
69	ROLLING LANE	1988	Yes	No	No			
74	ROLLING LANE	1986	Yes	No	No			
75	ROLLING LANE	1986	Yes	No	No			
80	ROLLING LANE	1988	No					
81	ROLLING LANE	1988	Yes	No	No			



83	ROLLING LANE	1986	Yes	No	No		
89	ROLLING LANE	1986	Yes	No	No		
92	ROLLING LANE	1986	Yes	No	No		
100	ROLLING LANE	1988	Yes	No	No		
101	ROLLING LANE	1988	Yes	No	No		
15	ROSALIE ROAD	1987	Yes	No	No		
16	ROSALIE ROAD	1987	No				
23	ROSALIE ROAD	1987	No				
29	ROSALIE ROAD	1987	Yes	No	No		
33	ROSALIE ROAD	1989	Yes	No	No		
36	ROSALIE ROAD	1989	No	_			
41	ROSALIE ROAD	1989	No				
42	ROSALIE ROAD	1987	Yes	No	No		
47	ROSALIE ROAD	1987	Yes	Yes	Yes	DRAIN	
48	ROSALIE ROAD	1989	Yes	No	No		
53	ROSALIE ROAD	1987	Yes	No	No		
54	ROSALIE ROAD	1989	Yes	No	No		
3	ROSEMARY STREET	1986	Yes	No	No		
11	ROSEMARY STREET	1985	No				
18	ROSEMARY STREET	1986	Yes	No	No		
21	ROSEMARY STREET	1986	Yes	No	No		
24	ROSEMARY STREET	1986	Yes	No	No		
25	ROSEMARY STREET	1985	Yes	No	No		
31	ROSEMARY STREET	1985	Yes	No	No		
36	ROSEMARY STREET	1986	Yes	No	No		
41	ROSEMARY STREET	1985	Yes	No	No		
46	ROSEMARY STREET	1985	Yes	No	No		
47	ROSEMARY STREET	1985	Yes	No	No		
50	ROSEMARY STREET	1985	Yes	No	No		
57	ROSEMARY STREET	1985	Yes	No	No		
60	ROSEMARY STREET	1985	Yes	Yes	Yes	SEWER	
61	ROSEMARY STREET	1989	No				
65	ROSEMARY STREET		Yes	No	No		
66	ROSEMARY STREET	1985	Yes	No	No		
76	ROSEMARY STREET	1985	Yes	No	No		
238	ROSEMARY STREET	1987	No				
238	ROSEMARY STREET	1988	No				
252	ROSEMARY STREET	1987	Yes	No	No		
253	ROSEMARY STREET	1987	Yes	No	No		
259	ROSEMARY STREET	1987	No				
259	ROSEMARY STREET	1988	Yes	No	No		
262	ROSEMARY STREET	1988	Yes	No	No		
267	ROSEMARY STREET	1987	No				
267	ROSEMARY STREET	1988	No				



267	ROSEMARY STREET	1994	No				ROOF LEADER
268	ROSEMARY STREET	1987	Yes	No	No		
276	ROSEMARY STREET	1994	No				ROOF LEADER
277	ROSEMARY STREET	1987	No				
277	ROSEMARY STREET	1988	Yes	No	No		
285	ROSEMARY STREET	1987	Yes	No	No		
286	ROSEMARY STREET	1994	No				ROOF LEADER
293	ROSEMARY STREET	1987	Yes	No	No		
298	ROSEMARY STREET	1987	No				
298	ROSEMARY STREET	1988	No				
299	ROSEMARY STREET	1987	No				
299	ROSEMARY STREET	1988	Yes	No	No		
305	ROSEMARY STREET	1987	No				
305	ROSEMARY STREET	1988	Yes	Yes	Yes	GROUND	
311	ROSEMARY STREET	1987	No	_			
311	ROSEMARY STREET	1988	Yes	No	No		
312	ROSEMARY STREET	1987	Yes	No	No		
320	ROSEMARY STREET	1988	Yes	No	No		
320	ROSEMARY STREET	1988	No				
323	ROSEMARY STREET	1987	Yes	No	No		
326	ROSEMARY STREET	1988	Yes	No	No		
326	ROSEMARY STREET	1994	No				ROOF LEADER
330	ROSEMARY STREET	1988	No				
331	ROSEMARY STREET	1988	No				
331	ROSEMARY STREET	1994	No				ROOF LEADER
338	ROSEMARY STREET	1987	Yes	No	No		
260/262	ROSEMARY STREET	1987	No				
270/272	ROSEMARY STREET	1987	No				
270/272	ROSEMARY STREET	1988	Yes	No	No		
28/30	ROSEMARY STREET	1985	Yes	No	No		
7	RUSSELL ROAD	1988	Yes	No	No		
12	RUSSELL ROAD	1988	Yes	No	Yes	GROUND	
19	RUSSELL ROAD	1987	Yes	No	No		
34	RUSSELL ROAD	1987	No				
35	RUSSELL ROAD	1987	No				
105	RUSSELL ROAD	1987	Yes	No			
111	RUSSELL ROAD	1987	Yes	No	No		
5	SACHEM ROAD	1988	Yes	No	No		
8	SACHEM ROAD		Yes	Yes	Yes	GROUND	CAP HIDDEN
11	SACHEM ROAD	1988	No				
20	SACHEM ROAD	1988	No				
24	SACHEM ROAD	1988	Yes	No	No		
25	SACHEM ROAD	1988	Yes	No	No		
30	SACHEM ROAD	1988	Yes	No	No		



35	SACHEM ROAD	1987	Yes	No	No		CAP HIDDEN
49	SACHEM ROAD	1987	Yes	No	No		
54	SACHEM ROAD	1988	Yes	No	No		
62	SACHEM ROAD	1988	Yes	No	No		
69	SACHEM ROAD	1987	Yes	No	No		
70	SACHEM ROAD	1988	Yes	No	No		
74	SACHEM ROAD	1988	No	-			
78	SACHEM ROAD	1987	Yes	No	No		
80	SACHEM ROAD	1988	No				
93	SACHEM ROAD	1988	Yes	No	No		
94	SACHEM ROAD	1988	Yes	No	No		
108	SACHEM ROAD	1987	No				
112	SACHEM ROAD	1987	Yes	No	No		
117	SACHEM ROAD	1987	Yes	No	No		
118	SACHEM ROAD	1987	Yes	No	No		
125	SACHEM ROAD	1988	No				
25	SARGENT STREET	1986	Yes	No	No		
26	SARGENT STREET	1986	Yes	No	No		
41	SARGENT STREET	1989	Yes	No	No		
44	SARGENT STREET	1986	Yes	No	No		
49	SARGENT STREET	1988	Yes	No	Yes	GROUND	
50	SARGENT STREET	1988	Yes	Yes	Yes	GROUND	HEAVY RAINS ONLY
55	SARGENT STREET	1989	No				
72	SARGENT STREET	1988	Yes	No	No		
73	SARGENT STREET	1988	Yes	No	No		
77	SARGENT STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
78	SARGENT STREET	1989	Yes	No	No		
9	SAVOY ROAD	1989	Yes	No	No		
16	SAVOY ROAD	1989	Yes	No	No		
17	SAVOY ROAD	1988	Yes	No	No		
22	SAVOY ROAD	1988	No				
23	SAVOY ROAD	1988	Yes	No	No		
29	SAVOY ROAD	1986	Yes	No	No		
30	SAVOY ROAD	1988	Yes	No	No		CLEANOUT BURIED
36	SAVOY ROAD	1988	Yes	No	No		
37	SAVOY ROAD	1986	Yes	No	No		
41	SAVOY ROAD	1986	Yes	No	No		
42	SAVOY ROAD	1986	Yes	No	No		
48	SAVOY ROAD	1988	Yes	No	No		
49	SAVOY ROAD	1988	Yes	No	No		
54	SAVOY ROAD	1988	Yes	No	No		
55	SAVOY ROAD	1989	No				
60	SAVOY ROAD	1986	Yes	No	No		
61	SAVOY ROAD	1989	Yes	No	No		



68	SAVOY ROAD	1988	Yes	No	No		
69	SAVOY ROAD	1986	Yes	No	No		
74	SAVOY ROAD	1989	No	140	110		
75	SAVOY ROAD	1988	Yes	No	No		
20	SCHOOL STREET	1986	Yes	No	No		
29	SCHOOL STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
30	SCHOOL STREET	1985	Yes	No	No		CLEANOOT NOT VISIBLE
69	SCHOOL STREET	1989	Yes	No	No		
73	SCHOOL STREET	1989	Yes	No	No		
86	SCHOOL STREET	1985	Yes	No	No		
89	SCHOOL STREET	1985	Yes	No	No		
92	SCHOOL STREET	1985	Yes	No	No		
9	SHADY LANE	1988	Yes	No	No		
7	SHERMAN STREET	1988	No	INO	INO		
11	SHERMAN STREET	1986	Yes	No	No		
20	SHERMAN STREET	1988	No	INU	INU		
27	SHERMAN STREET	1988	No				
28	SHERMAN STREET	1988	No				
30	SHERMAN STREET	1988	Yes	No	No		
				INO	INO		
31 40	SHERMAN STREET	1988 1988	No	No	No		
52	SHERMAN STREET SHERMAN STREET	1988	Yes	No	ł		
			Yes	No	No		
6	SHIRLEY ROAD	1986	Yes	No	No		
7	SHIRLEY ROAD	1986	Yes	No	No		
11	SHIRLEY ROAD	1986	Yes	No	No		
17	SHIRLEY ROAD	1988	Yes	No	No		
18	SHIRLEY ROAD	1989	Yes	No	No		
24	SHIRLEY ROAD	1986	Yes	No	No		
29	SHIRLEY ROAD	1989	No				
36	SHIRLEY ROAD	1986	Yes	No	No		
41	SHIRLEY ROAD	1986	Yes	No	No		
6	SMITH STREET	1986	Yes	No	No		BACK WATER VALVE
14	SMITH STREET	1988	Yes	No	No		
15	SMITH STREET	1986	Yes	No	No		
23	SMITH STREET	1986	Yes	No	No		
24	SMITH STREET	1989	No				
29	SMITH STREET	1986	Yes	No	No		
34	SMITH STREET		Yes	No	No		
37	SMITH STREET	1986	Yes	No	No		
4	SOUTH STREET	1988	Yes	No	No		
7	SOUTH STREET	1988	No				
14	SOUTH STREET	1989	No				
15	SOUTH STREET	1988	Yes	No	No		
20	SOUTH STREET	1986	Yes	No	No		



24	SOUTH STREET	1988	Yes	No	No		
27	SOUTH STREET	1986	Yes	No	No		CLEANOUT BURIED UNDER FLOOR
32	SOUTH STREET	1986	Yes	No	No		
35	SOUTH STREET	1988	Yes	Yes	Yes	GROUND	
45	SOUTH STREET	1989	Yes	No	No		
73	SOUTH STREET	1989	No				
79	SOUTH STREET	1986	Yes	No	No		
88	SOUTH STREET	1986	Yes	No	No		
89	SOUTH STREET	1989	Yes	No	No		
93	SOUTH STREET	1989	No				
110	SOUTH STREET	1986	Yes	No	No		
124	SOUTH STREET	1989	Yes	No	No		
130	SOUTH STREET	1989	No				
146	SOUTH STREET	1989	Yes	No	No		
150	SOUTH STREET	1989	No				
154	SOUTH STREET	1988	Yes	No	No		
165	SOUTH STREET	1986	Yes	No	No		
178	SOUTH STREET	1986	Yes	No	No		
179	SOUTH STREET	1986	Yes	No	No		
187	SOUTH STREET	1986	Yes	No	No		
200	SOUTH STREET	1988	Yes	No	No		
207	SOUTH STREET	1988	Yes	No	No		
210	SOUTH STREET	1989	No				
221	SOUTH STREET	1986	Yes	No	No		
237	SOUTH STREET	1986	Yes	No	No		
247	SOUTH STREET	1986	Yes	No	No		
279	SOUTH STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
293	SOUTH STREET	1988	Yes	No	No		
374	SOUTH STREET	1987	Yes	No	No		CAP HIDDEN
400	SOUTH STREET	1988	No				
410	SOUTH STREET	1988	No				
415	SOUTH STREET	1988	Yes	Yes	Yes	GROUND	
427	SOUTH STREET	1988	Yes	No	No		
430	SOUTH STREET	1988	Yes	No	No		CLEANOUT IN BACK OF HOUSE
436	SOUTH STREET	1987	Yes	No	No		
437	SOUTH STREET	1987	Yes	No	No		
470	SOUTH STREET	1987	Yes	No	No		
495	SOUTH STREET	1987	Yes	Yes	Yes	DRAIN	
500	SOUTH STREET	1988	Yes	No	Yes		
508	SOUTH STREET	1987	Yes	Yes	Yes	SEWER	
520	SOUTH STREET	1988	Yes	No	No		
531	SOUTH STREET	1988	Yes	No	No		



568	SOUTH STREET	1987	Yes	No	Yes	GROUND	
590	SOUTH STREET	1988	No				
610	SOUTH STREET	1987	Yes	No	No		
626	SOUTH STREET	1987	Yes	No	No		
649	SOUTH STREET	1988	Yes	No	Yes	GROUND	
660	SOUTH STREET	1987	Yes	No	No		
669	SOUTH STREET	1987	No				NOT CONNECTED
701	SOUTH STREET	1987	No				NOT CONNECTED
708	SOUTH STREET	1987	No				NOT CONNECTED
710	SOUTH STREET	1987	No				NOT CONNECTED
720	SOUTH STREET	1987	No				NOT CONNECTED
731	SOUTH STREET	1987	No				NOT CONNECTED
750	SOUTH STREET	1987	No				NOT CONNECTED
	SOUTH STREET	1986	Yes	No	No		
15	SPRING STREET	1986	Yes	No	No		
21	SPRING STREET	1986	Yes	No	No		
27	SPRING STREET	1985	Yes	No	No		
33	SPRING STREET	1986	Yes	Yes	Yes		
34	SPRING STREET	1986	Yes	No	No		CAP NOT VISIBLE
41	SPRING STREET	1985	Yes	No	No		
42	SPRING STREET	1986	Yes	No	No		
47	SPRING STREET	1986	Yes	Yes	No		BACK WATER VALVE
50	SPRING STREET	1985	Yes	No	No		
53	SPRING STREET	1985	Yes	Yes	Yes	GROUND	
58	SPRING STREET	1985	Yes	Yes	Yes	GROUND	
59	SPRING STREET	1989	No				
66	SPRING STREET	1986	Yes	No	No		
67	SPRING STREET	1989	Yes	No	No		
74	SPRING STREET	1985	Yes	Yes	Yes	GROUND	
80	SPRING STREET	1985	Yes	No	No		
18	ST. CLOUD AVE	1988	Yes	No	No		
30	ST. CLOUD AVE	1987	Yes	No	No		
5	ST. MARY STREET	1986	Yes	No	No		
11	ST. MARY STREET	1988	No				
21	ST. MARY STREET	1988	Yes	No	No		
30	ST. MARY STREET	1988	Yes	No	No		
34	ST. MARY STREET	1988	No				
40	ST. MARY STREET	1986	Yes	No	No		
46	ST. MARY STREET	1986	Yes	No	No		
47	ST. MARY STREET	1988	No				
52	ST. MARY STREET	1988	No				
53	ST. MARY STREET	1986	Yes	No	No		
58	ST. MARY STREET	1988	Yes	No	No		
73	ST. MARY STREET	1988	No				



00	CT MADY CTREET	1000	V	NI-	NI-			1
88	ST. MARY STREET	1988	Yes	No	No			
89	ST. MARY STREET	1986	Yes	No	No			
109	ST. MARY STREET	1988	Yes	No	No			
125	ST. MARY STREET	1986	Yes	No	No			
145	ST. MARY STREET	1988	No					
169	ST. MARY STREET	1988	No					
181	ST. MARY STREET	1988	Yes	Yes	Yes		GROUND	
183	ST. MARY STREET	1986	Yes	No	No			
187	ST. MARY STREET	1988	Yes	No	No			
193	ST. MARY STREET	1986	Yes	No	Yes		PLUMBING	
199	ST. MARY STREET	1988	No					
-	ST. MARY STREET	1986	No					
1	STANDISH ROAD	1989	No					
2	STANDISH ROAD	1986	Yes	No	No			
11	STANDISH ROAD	1986	Yes	No	No			
14	STANDISH ROAD	1986	Yes	No	No			CLEANOUT IN GARAGE, CAP NOT VISIBLE
17	STANDISH ROAD	1986	Yes	No	No			
22	STANDISH ROAD	1986	Yes	No	No			
25	STANDISH ROAD	1986	Yes	Yes	Yes		GROUND	
28	STANDISH ROAD	1989	No					
31	STANDISH ROAD	1989	Yes	No	No			
37	STANDISH ROAD	1986	Yes	No	No			
42	STANDISH ROAD	1989	No					
43	STANDISH ROAD	1989	Yes	No	No			
49	STANDISH ROAD	1986	No					
50	STANDISH ROAD	1986	Yes	No	No			
55	STANDISH ROAD	1986	Yes	Yes	Yes		PLUMBING	COVERED OVER
56	STANDISH ROAD	1986	Yes	Yes	Yes		PLUMBING	
61	STANDISH ROAD	1986	Yes	No	No			CAP NOT VISIBLE
62	STANDISH ROAD	1986	Yes	No	No			
69	STANDISH ROAD	1986	Yes	No	No			CAP LOOSE
70	STANDISH ROAD	1986	Yes	No	No			
77	STANDISH ROAD	1989	Yes	No	No			
78	STANDISH ROAD	1986	Yes	No	No			CLEANOUT IN GARAGE
87	STANDISH ROAD	1986	Yes	No	No			
88	STANDISH ROAD	1989	No					
93	STANDISH ROAD	1986	Yes	No	No			
94	STANDISH ROAD	1989	No					
101	STANDISH ROAD	1986	Yes	No	No			
102	STANDISH ROAD	1986	Yes	No	No			
109	STANDISH ROAD	1986	Yes	No	No			
110	STANDISH ROAD	1986	Yes	No	No			
115	STANDISH ROAD	1986	Yes	No	No			



110	CTANDICH BOAD	1000	Vas	No	No		
116	STANDISH ROAD	1986	Yes	No	No		
124	STANDISH ROAD	1986	Yes	No	No		
125	STANDISH ROAD	1986	Yes	No	No		
138	STANDISH ROAD	1989	Yes	No	No		
144	STANDISH ROAD	1986	Yes	No	No		
147	STANDISH ROAD	1986	Yes	No	No		
150	STANDISH ROAD	1986	Yes	No	No		
156	STANDISH ROAD	1986	Yes	No	No		
157	STANDISH ROAD	1986	Yes	Yes	No		
160	STANDISH ROAD	1986	Yes	No	No		CAP HIDDEN
163	STANDISH ROAD	1986	Yes	No	No		
171	STANDISH ROAD	1986	Yes	No	No		
174	STANDISH ROAD	1986	Yes	No	No		
10	STERLING ROAD	1987	Yes	No	No		
11	STERLING ROAD	1987	Yes	No	No		
16	STERLING ROAD	1989	Yes	No	No		
20	STERLING ROAD	1989	?	?	?	?	NO SUCH HOUSE NUMBER?
21	STERLING ROAD	1987	Yes	No	No		
22	STERLING ROAD	1987	Yes	No	No		
29	STERLING ROAD	1989	No				
30	STERLING ROAD	1988	Yes	No	No		
35	STERLING ROAD	1989	Yes	No	No		
36	STERLING ROAD	1987	Yes	No	No		
42	STERLING ROAD	1987	Yes	No	No		
47	STERLING ROAD	1987	Yes	Yes	Yes	GROUND	
50	STERLING ROAD	1987	Yes	No	No		
7	STEVENS ROAD	1986	Yes	No	No		
17	STEVENS ROAD	1986	Yes	No	No		
20	STEVENS ROAD	1988	Yes	Yes	No		
21	STEVENS ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
27	STEVENS ROAD	1986	Yes	No	No		
28	STEVENS ROAD	1986	Yes	No	No		
33	STEVENS ROAD	1986	Yes	No	No		
34	STEVENS ROAD	1986	Yes	No	No		
38	STEVENS ROAD	1986	Yes	No	No		
39	STEVENS ROAD	1986	Yes	No	No		
44	STEVENS ROAD	1988	Yes	No	No		
45	STEVENS ROAD	1988	No				
50	STEVENS ROAD	1988	No				
51	STEVENS ROAD	1988	No				
55	STEVENS ROAD	1988	No				
56	STEVENS ROAD	1986	Yes	No	No		
60	STEVENS ROAD	1986	Yes	No	No		
61	STEVENS ROAD	1986	Yes	No	No		



CC	CTEVENC DOAD	1986	Vac	No	No		
66	STEVENS ROAD		Yes	No	No		
67	STEVENS ROAD	1986	Yes	No	No		
72	STEVENS ROAD	1986	Yes	No	No		
73	STEVENS ROAD	1986	Yes	No	No		_
76	STEVENS ROAD	1988	No				
81	STEVENS ROAD	1988	No				
82	STEVENS ROAD	1986	Yes	Yes	No		
14/16	STEVENS ROAD	1988	Yes	No	No		
3	STEWART ROAD	1986	Yes	No	No		
21	STEWART ROAD	1986	Yes	No	No		
31	STEWART ROAD	1985	Yes	No	No		
41	STEWART ROAD	1985	Yes	No	Yes	GROUND	
51	STEWART ROAD	1986	Yes	No	No		
65	STEWART ROAD	1986	Yes	No	Yes	SEWER	
73	STEWART ROAD	1985	Yes	No	No		
85	STEWART ROAD	1986	Yes	No	No		
1	STOCKDALE ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE
8	STOCKDALE ROAD	1985	Yes	No	No		
11	STOCKDALE ROAD	1986	Yes	No	No		
16	STOCKDALE ROAD	1985	Yes	No	No		
17	STOCKDALE ROAD	1989	Yes	No	No		
22	STOCKDALE ROAD	1989	Yes	No	No		
25	STOCKDALE ROAD	1986	Yes	No	No		
28	STOCKDALE ROAD	1985	Yes	No	No		
31	STOCKDALE ROAD	1985	Yes	No	No		
36	STOCKDALE ROAD	1986	Yes	No	No		
37	STOCKDALE ROAD	1985	Yes	No	No		CLEANOUT BURIED
42	STOCKDALE ROAD	1985	Yes	No	No		
43	STOCKDALE ROAD	1986	Yes	No	No		
50	STOCKDALE ROAD	1986	Yes	No	No		
51	STOCKDALE ROAD	1985	Yes	No	Yes	SINK	
56	STOCKDALE ROAD	1985	Yes	No	No		
57	STOCKDALE ROAD	1986	Yes	No	Yes	PLUMBING	
62	STOCKDALE ROAD	1985	Yes	No	No		
65	STOCKDALE ROAD	1986	Yes	Yes	Yes	SINK	PORTABLE PUMP
70	STOCKDALE ROAD	1985	Yes	No	No		
71	STOCKDALE ROAD	1985	Yes	No	No		CLEANOUT BURIED
74	STOCKDALE ROAD	1986	Yes	No	No		
77	STOCKDALE ROAD	1989	Yes	No	No		
80	STOCKDALE ROAD	1988	Yes	No	No		
86	STOCKDALE ROAD	1986	Yes	No	No		
89	STOCKDALE ROAD	1986	Yes	No	No		
94	STOCKDALE ROAD	1989	Yes	No	No		
				•			
14	STONEHURST ROAD	1986	Yes	No	No		



14	STONEHURST ROAD	2008	Yes	No			
22	STONEHURST ROAD	1986	Yes	No	No		CLEANOUT NOT VISIBLE
22	STONEHURST ROAD	2008	Yes	No			
34	STONEHURST ROAD	1986	Yes	No	No		
34	STONEHURST ROAD	2008	Yes	No			
37	STONEHURST ROAD	1985	Yes	No	No		CLEANOUT BURIED IN GARAGE
37	STONEHURST ROAD	2008	Yes	No			
16	SUMMIT ROAD	2008	Yes				HOME ON SLAB
22	SUMMIT ROAD	2008	Yes				HOME ON SLAB
26	SUMMIT ROAD	2008	Yes				HOME ON SLAB
29	SUMMIT ROAD	2008	Yes				HOME ON SLAB
?	SUMMIT ROAD	2008	Yes				NEW NO HOUSE #
Ş	SUMMIT ROAD	2008	Yes				NEW NO HOUSE #
?	SUMMIT ROAD	2008	Yes				NEW NO HOUSE #
?	SUMMIT ROAD	2008	Yes				NEW NO HOUSE #
11	SUNNYSIDE ROAD	1986	Yes	No	No		
23	SUNNYSIDE ROAD	1988	Yes	No	No		CLEANOUT UNDER RUG
31	SUNNYSIDE ROAD	1988	No				
35	SUNNYSIDE ROAD	1988	No				
89	SUNNYSIDE ROAD	1986	Yes	No	No		EJECTER PUMP FOR SEWER
11	SUNSET ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
14	SUNSET ROAD	1986	Yes	No	No		
20	SUNSET ROAD	1986	Yes	No	No		
28	SUNSET ROAD	1988	No				
31	SUNSET ROAD	1988	Yes	Yes	No		CLEANOUT IN GARAGE
34	SUNSET ROAD	1988	Yes	No	No		
39	SUNSET ROAD	1986	Yes	No	Yes	GROU	ND
40	SUNSET ROAD	1986	Yes	No	No		
45	SUNSET ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
46	SUNSET ROAD	1986	Yes	No	No		
50	SUNSET ROAD	1988	Yes	No	No		
3	SURREY LANE	1988	Yes	No	No		
11	SURREY LANE	1988	Yes	No	No		
16	SURREY LANE	1987	Yes	No	No		CLEANOUT HIDDEN IN GARAGE
17	SURREY LANE	1988	No				
20	SURREY LANE	1988	No				
21	SURREY LANE	1989	Yes	No	No		CLEANOUT NOT VISIBLE
7	SUTTON ROAD	1988	Yes	No	Yes		PUMP GOES OUTSIDE TO WELL
8	SUTTON ROAD	1987	Yes	No	No		
17	SUTTON ROAD	1987	Yes	No	No		
29	SUTTON ROAD	1987	Yes	No	No		



		T	T	Т		T		
30	SUTTON ROAD	1988	Yes	Yes	No			
35	SUTTON ROAD	1988	Yes	No	No			
38	SUTTON ROAD	1987	Yes	No	No			
41	SUTTON ROAD	1988	Yes	No	No			
47	SUTTON ROAD	1988	Yes	No	No			
48	SUTTON ROAD	1988	Yes	No	No			
53	SUTTON ROAD	1988	Yes	No	No			
54	SUTTON ROAD	1987	Yes	No	No			
65	SUTTON ROAD	1988	Yes	No	No			
68	SUTTON ROAD	1988	No					
76	SUTTON ROAD	1988	Yes	No	No			
82	SUTTON ROAD	1987	Yes	No	No			
86	SUTTON ROAD	1987	Yes	No	No			
91	SUTTON ROAD	1987	Yes	No	No			CLEANOUT BURIED UNDER GARAGE
92	SUTTON ROAD	1988	Yes	No	No			
97	SUTTON ROAD	1988	Yes	No	No			
98	SUTTON ROAD	1988	Yes	No	No			
104	SUTTON ROAD	1987	Yes	No	No			
105	SUTTON ROAD	1987	Yes	No	No			
111	SUTTON ROAD	1988	Yes	No	No			
112	SUTTON ROAD	1988	Yes	No	No			
117	SUTTON ROAD	1987	Yes	No	No			
118	SUTTON ROAD	1987	Yes	No	No			
125	SUTTON ROAD	1987	No					
131	SUTTON ROAD	1988	Yes	No	No			
134	SUTTON ROAD	1988	No					
145	SUTTON ROAD	1986	Yes	No	No			
151	SUTTON ROAD	1986	Yes	No	No			
175	SUTTON ROAD	1988	No					
EXTENSION	SUTTON ROAD	1986	Yes	No	No			
60	SYLVAN ROAD	1985	Yes	Yes	No			
63	SYLVAN ROAD	1986	Yes	Yes	No			
63	SYLVAN ROAD	2008	Yes	No				
68	SYLVAN ROAD	1985	Yes	Yes	Yes			
68	SYLVAN ROAD	2008	No					
69	SYLVAN ROAD	1985	Yes	No	No			CLEANOUT BURIED
69	SYLVAN ROAD	2008	Yes	No				
72	SYLVAN ROAD	1986	Yes	Yes	Yes		GROUND	
72	SYLVAN ROAD	2008	No					
80	SYLVAN ROAD	1986	Yes	Yes	No			CLEANOUT BEHIND PANELING
80	SYLVAN ROAD	2008	Yes	No				
81	SYLVAN ROAD	1985	Yes	No	No			
81	SYLVAN ROAD	2008	Yes	Yes	Yes	1	HOSED TO YARD	



84	SYLVAN ROAD	1985	Yes	No	No			
84	SYLVAN ROAD	2008	No	140	140			
103	SYLVAN ROAD	1985	Yes	No	No			
103	SYLVAN ROAD	2008	No	NO	NO			
103	STEVANTIOAD	2008	INO					NO SEWER CONNECTION INSIDE,
118	SYLVAN ROAD	1986	Yes	No	No			SEWER TO HOUSE
							OWNER SAYS TO	SEWER TO TICOSE
118	SYLVAN ROAD	2008	Yes	Yes	Yes	3	DRYWELL	FINISHED BASEMENT
119	SYLVAN ROAD	1986	Yes	No	No		DITTALE	
119	SYLVAN ROAD	2008	Yes	Yes	Yes	1	YARD	
125	SYLVAN ROAD	1986	Yes	No	No	1	TAILD	
125	SYLVAN ROAD	2008	No	140	140			
132	SYLVAN ROAD	2008	No					
138	SYLVAN ROAD	1991	No					
138	SYLVAN ROAD	2008	Yes	Yes				
148	SYLVAN ROAD	1991	No	103				
148	SYLVAN ROAD	2008	No					
?	SYLVAN ROAD	2008	Yes	Yes	Yes	2	YARD	
5	TAMARACK LANE	1987	Yes	No	No	2	TAILD	
14	TAMARACK LANE	1988	No	140	140			_
15	TAMARACK LANE	1987	Yes	No	No			_
11	TANGLEWOOD ROAD	1987	No	140	140			_
15	TANGLEWOOD ROAD	1987	No					_
16	TANGLEWOOD ROAD	1987	Yes	No	No			CLEANOUT NOT VISIBLE
21	TANGLEWOOD ROAD	1987	Yes	No	No			CLEANOUT IN GARAGE
24	TANGLEWOOD ROAD	1987	No	INO	140			CLEANOOT IN GARAGE
29	TANGLEWOOD ROAD	1987	No					_
40	TANGLEWOOD ROAD	1987	No					_
4	TAYLOR STREET	1988	Yes	No	No			_
12	TAYLOR STREET	1986	Yes	No	No			
15	TAYLOR STREET	1986	Yes	No	No			
22	TAYLOR STREET	1988	No	110	110			
23	TAYLOR STREET	1986	Yes	No	No			
42	TAYLOR STREET	1986	No					
48	TAYLOR STREET	1986	Yes	No	No			
								CLEANOUT FOR MANHOLE
54	TAYLOR STREET	1986	Yes	No	No			OUTSIDE OF HOUSE
66	TAYLOR STREET	1986	Yes	No	No			55.5.22 57 115 532
74	TAYLOR STREET	1986	Yes	No	No			
84	TAYLOR STREET	1988	Yes	No	No			
87	TAYLOR STREET	1986	Yes	No	No			
92	TAYLOR STREET	1986	No					
95	TAYLOR STREET	1986	Yes	No	No			
99	TAYLOR STREET	1988	Yes	No	No			
33	TATLON STREET	1300	163	INU	INU		1	



100	TAYLOR STREET	1986	Yes	No	No		
125	TAYLOR STREET	1986	No				
28	THORNTON ROAD	1986	Yes	No	No		
31	THORNTON ROAD	1988	Yes	No	No		
39	THORNTON ROAD	1986	Yes	No	No		
42	THORNTON ROAD	1986	Yes	No	No		
47	THORNTON ROAD	1986	Yes	No	No		
50	THORNTON ROAD	1988	Yes	No	No		
55	THORNTON ROAD	1986	Yes	No	No		
56	THORNTON ROAD	1986	Yes	No	No		
66	THORNTON ROAD	1986	No				
74	THORNTON ROAD	1986	No				
83	THORNTON ROAD	1988	Yes	No	No		
87	THORNTON ROAD	1986	Yes	No	Yes		
95	THORNTON ROAD	1986	No				
107	THORNTON ROAD	1986	Yes	No	No		
121	THORNTON ROAD	1986	Yes	No	No		
127	THORNTON ROAD	1986	No				
128	THORNTON ROAD	1986	Yes	No	No		
133	THORNTON ROAD	1986	No				
136	THORNTON ROAD	1986	Yes	No	No		
147	THORNTON ROAD	1986	No				
153	THORNTON ROAD	1986	Yes	No	No		
156	THORNTON ROAD	1986	Yes	No	No		
159	THORNTON ROAD	1986	No				
164	THORNTON ROAD	1986	Yes	No	No		
165	THORNTON ROAD	1986	Yes	No	No		
170	THORNTON ROAD	1986	No				
178	THORNTON ROAD	1986	Yes	No	No		
3	THORPE ROAD	1985	Yes	No	Yes	GROUND	
9	THORPE ROAD	1986	No				NOT CONNECTED TO SEWER
14	THORPE ROAD	1989	Yes	Yes	Yes	GROUND	
28	THORPE ROAD	1985	Yes	No	No		
29	THORPE ROAD	1985	Yes	No	No		
40	THORPE ROAD	1986	Yes	Yes	Yes	PLUMBING	
6	THURSTON LANE	1986	Yes	No	Yes		
14	THURSTON LANE	1986	No				
20	THURSTON LANE	1986	No				
25	THURSTON LANE	1986	Yes	No	No		CLEANOUT NOT VISIBLE
26	THURSTON LANE	1986	Yes	No	No		
33	THURSTON LANE	1986	Yes	No	No		
39	THURSTON LANE	1988	Yes	No	No		CRAWL SPACE
9	TILLOTSON ROAD	1987	No				
20	TILLOTSON ROAD	1988	No				



3/5	TILLOTSON ROAD	1987	Yes	Yes	Yes	SEWER	
4/6	TILLOTSON ROAD	1987	Yes	Yes	Yes	PLUMBING	
12/14	TILLOTSON ROAD	1988	Yes	No	No	. 1011151110	SEWER IN 14, NOT IN 12
17/19	TILLOTSON ROAD	1987	No				
14	TOLMAN STREET	1986	Yes	No	No		NO CLEANOUT
15	TOLMAN STREET	1986	Yes	Yes	Yes	GROUND	
23	TOLMAN STREET	1986	Yes	No	No		
26	TOLMAN STREET	1986	Yes	No	No		CLEANOUT BURIED
1	TOWER AVE	1986	Yes	No	No		
6	TOWER AVE	1985	Yes	No	No		
11	TOWER AVE	1986	Yes	No	No		
14	TOWER AVE	1986	Yes	No	No		
24	TOWER AVE	1985	Yes	Yes	No		
25	TOWER AVE	1985	Yes	No	No		
29	TOWER AVE	1989	Yes	No	No		
30	TOWER AVE	1989	Yes	No	No		
34	TOWER AVE	1985	Yes	Yes	No		
35	TOWER AVE	1989	No				
46	TOWER AVE	1985	Yes	No	No		CLEANOUT IN GARAGE LEVEL WITH FLOOR
61	TOWER AVE	1986	Yes	No	No		CLEANOUT BURIED
80	TOWER AVE	1986	Yes	No	No		
81	TOWER AVE	1986	Yes	No	No		
87	TOWER AVE	1985	Yes	No	No		
95	TOWER AVE	1986	Yes	No	No		
100	TOWER AVE	1985	Yes	No	No		
101	TOWER AVE	1985	Yes	No	No		
119	TOWER AVE	1988	No				
120	TOWER AVE	1988	Yes	Yes	No		
125	TOWER AVE	1986	Yes	No	No		
130	TOWER AVE	1989	Yes	No	No		CLEANOUT NOT VISIBLE
135	TOWER AVE	1989	Yes	No	No		CLEANOUT BELOW FLOOR
140	TOWER AVE	1988	Yes	No	No		
147	TOWER AVE	1989	Yes	No	No		
148	TOWER AVE	1988	Yes	No	No		
153	TOWER AVE	1986	Yes	No	No		
154	TOWER AVE	1986	Yes	No	No		SMALL VALVE ON CLEANOUT CAP
159	TOWER AVE	1988	Yes	No	No		
166	TOWER AVE	1988	Yes	No	No		
167	TOWER AVE	1989	No				
174	TOWER AVE	1986	Yes	No	No		
180	TOWER AVE	1986	Yes	No	No		
201	TOWER AVE	1989	Yes	Yes	Yes	GROUND	



204	TOWER AVE	1988	Yes	No	No		CLEANOUT NOT VISIBLE
7	TROUT POND LANE	1987	Yes	No	No		
17	TROUT POND LANE	1987	Yes	Yes	Yes	PLUMBING	
22	TROUT POND LANE	1988	No				
25	TROUT POND LANE	1988	Yes	No	No		CLEANOUT NOT VISIBLE
3	TRUEMAN PLACE	1985	No				
41	TRUEMAN PLACE	1985	Yes	Yes	Yes	SEWER	
48	TRUEMAN PLACE	1985	No				
8	TUDOR ROAD	1988	Yes	No	No		
14	TUDOR ROAD	1986	Yes	No	No		
15	TUDOR ROAD	1986	Yes	No	No		
22	TUDOR ROAD	1988	Yes	No	Yes	GROUND	
28	TUDOR ROAD	1986	No				
35	TUDOR ROAD	1986	No				
36	TUDOR ROAD	1988	Yes	No	No		
42	TUDOR ROAD	1986	No				
45	TUDOR ROAD	1986	Yes	No	No		
50	TUDOR ROAD	1986	Yes	Yes	Yes	GROUND	CLEANOUT NOT VISIBLE
51	TUDOR ROAD	1986	No				
57	TUDOR ROAD	1986	Yes	No	No		
60	TUDOR ROAD	1986	No				
63	TUDOR ROAD	1986	No				
66	TUDOR ROAD	1988	Yes	No	No		
76	TUDOR ROAD	1986	Yes	No	Yes	GROUND	
79	TUDOR ROAD	1986	No				
82	TUDOR ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
89	TUDOR ROAD	1986	Yes	No	No		
92	TUDOR ROAD	1986	Yes	No	No		
99	TUDOR ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE
107	TUDOR ROAD	1988	Yes	No	No		
116	TUDOR ROAD	1989	Yes	No	No		
117	TUDOR ROAD	1986	Yes	No	No		
119	TUDOR ROAD	1988	No				
122	TUDOR ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE ABOVE FLOOR
125	TUDOR ROAD	1986	Yes	No	No		
128	TUDOR ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE ABOVE FLOOR
133	TUDOR ROAD	1989	Yes	No	No		
136	TUDOR ROAD	1989	Yes	No	No		
139	TUDOR ROAD	1988	Yes	No	No		
144	TUDOR ROAD	1986	Yes	No	No		
145	TUDOR ROAD	1989	No				
150	TUDOR ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE



153	TUDOR ROAD	1988	Yes	No	No		
160	TUDOR ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE ABOVE FLOOR
161	TUDOR ROAD	1986	Yes	No	No		
167	TUDOR ROAD	1986	Yes	No	No		
170	TUDOR ROAD	1988	Yes	No	No		
173	TUDOR ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
176	TUDOR ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE ABOVE FLOOR
179	TUDOR ROAD	1989	No				TEOOR
185	TUDOR ROAD	1988	Yes	No	No		
188	TUDOR ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE
100	TODOK KOAD	1960	163	INO	INO		JNDER FLOOR WHERE GARAGE
191	TUDOR ROAD	1986	Yes	No	No		WAS
198	TUDOR ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE ABOVE FLOOR
199	TUDOR ROAD		Yes	No	No		
204	TUDOR ROAD	1989	No				
205	TUDOR ROAD	1986	Yes	No	No		
211	TUDOR ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE ABOVE FLOOR
216	TUDOR ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE
221	TUDOR ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE
7	UNION STREET	1988	Yes	No	No		
15	UNION STREET	1988	Yes	No	No		
12/14	UNION STREET	1987	No	_			
17/19	UNION STREET	1987	No				
3	UPLAND ROAD	1989	No				
7	UPLAND ROAD	1986	Yes	No	Yes	GROUND	-
12	UPLAND ROAD	1988	Yes	No	No		-
18	UPLAND ROAD	1988	Yes	No	No		
21	UPLAND ROAD	1989	Yes	No	No		-
24	UPLAND ROAD	1988	Yes	No	No		-
29	UPLAND ROAD	1988	Yes	No	No		-
30	UPLAND ROAD	1988	Yes	No	No		
35	UPLAND ROAD	1986	Yes	No	No		-
36	UPLAND ROAD	1988	Yes	No	No		
60	UPLAND ROAD	1988	Yes	No	No		
65	UPLAND ROAD	1988	Yes	No	No		
66	UPLAND ROAD	1988	Yes	No	No		
70	UPLAND ROAD	1988	No				
71	UPLAND ROAD	1986	Yes	No	Yes	GROUND	
74	UPLAND ROAD	1986	No			5555	
7	UTICA ROAD	1987	Yes	No	No		CAP HIDDEN



13	UTICA ROAD	1987	Yes	No	No		
16	UTICA ROAD	1988	Yes	No	No		
21	UTICA ROAD	1987	Yes	No	No		
22	UTICA ROAD	1988	No	INO	INO		
15	VALLEY ROAD	1989	No				
22	VALLEY ROAD VALLEY ROAD	1988	Yes	No	No		
27	VALLEY ROAD VALLEY ROAD	1987	Yes	No	No		
33	VALLEY ROAD VALLEY ROAD	1987	Yes	No	No		
37	VALLEY ROAD VALLEY ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
38	VALLEY ROAD VALLEY ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
43	VALLEY ROAD VALLEY ROAD	1988		No	No		
			Yes				
49	VALLEY ROAD	1987	Yes	No	No		
50	VALLEY ROAD	1989	No	N.			
57	VALLEY ROAD	1988	Yes	No	No		
58	VALLEY ROAD	1989	No	N.			
64	VALLEY ROAD	1988	Yes	No	No		
69	VALLEY ROAD	1988	Yes	No	No		
72	VALLEY ROAD	1989	No				
86	VALLEY ROAD	1987	Yes	No	No		
89	VALLEY ROAD	1989	No				
94	VALLEY ROAD	1989	No				
95	VALLEY ROAD	1988	Yes	Yes	No	SEWER	
100	VALLEY ROAD	1989	Yes	No	No		
101	VALLEY ROAD	1988	Yes	No	No		
106	VALLEY ROAD	1989	Yes	No	No		
107	VALLEY ROAD	1989	Yes	No	No		
112	VALLEY ROAD	1987	Yes	No	No		
122	VALLEY ROAD	1989	Yes	No	No		
126	VALLEY ROAD	1987	Yes	No	No		
129	VALLEY ROAD	1987	Yes	No	Yes	GROUND	
132	VALLEY ROAD	1987	Yes	No	No		
136	VALLEY ROAD	1987	Yes	No	No		
144	VALLEY ROAD	1988	Yes	No	No		
145	VALLEY ROAD	1989	No				
148	VALLEY ROAD	1988	Yes	Yes	No		
152	VALLEY ROAD	1989	Yes	No	No		
153	VALLEY ROAD	1987	Yes	No	Yes	GROUND	
159	VALLEY ROAD	1989	No				
160	VALLEY ROAD	1988	Yes	No	No		
167	VALLEY ROAD	1989	No				
172	VALLEY ROAD	1987	Yes	No	No		
173	VALLEY ROAD	1988	Yes	No	No		
183	VALLEY ROAD	1987	Yes	No	No		
184	VALLEY ROAD	1988	Yes	No	No		



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189	VALLEY ROAD	1988	Yes	No	Yes	DRAIN	PUMP IN FRONT OF GARAGE, GOES UNDERGROUND TO DRAIN
195	VALLEY ROAD	1988	Yes	No	No		
196	VALLEY ROAD	1987	Yes	No	No		
201	VALLEY ROAD	1989	No				
202	VALLEY ROAD	1987	Yes	No	No		
208	VALLEY ROAD	1987	Yes	No	Yes	GROUND	
209	VALLEY ROAD	1987	Yes	Yes	Yes	GROUND	
215	VALLEY ROAD	1987	Yes	Yes	Yes		
216	VALLEY ROAD	1987	Yes	Yes	Yes	GROUND	
221	VALLEY ROAD	1987	Yes	No	Yes	SINK	CLEANOUT UNDER FLOOR
222	VALLEY ROAD	1989	No				
228	VALLEY ROAD	1989	Yes	No	Yes	GROUND	
229	VALLEY ROAD	1989	Yes	No	No		
234	VALLEY ROAD	1989	Yes	No	No		
235	VALLEY ROAD	1989	Yes	Yes	Yes	GROUND	
242	VALLEY ROAD	1989	Yes	No	Yes	GROUND	
2	VARA LANE	1986	Yes	No	No	0.100112	CLEANOUT BURIED
8	VARA LANE	1988	No				
14	VARA LANE	1988	Yes	No	No		
20	VIRGINIA ROAD	1987	Yes	No	No		
23	VIRGINIA ROAD	1987	Yes	No	No		
26	VIRGINIA ROAD	1989	No				
32	VIRGINIA ROAD	1987	Yes	No	No		
33	VIRGINIA ROAD	1989	No				
38	VIRGINIA ROAD	1989	No				
43	VIRGINIA ROAD	1987	No				
44	VIRGINIA ROAD	1987	Yes	No	No		
50	VIRGINIA ROAD	1987	Yes	No	No		
51	VIRGINIA ROAD	1989	Yes	No	No		
17	WACHUSETTS ROAD	1988	No				
25	WACHUSETTS ROAD	1988	Yes	No	No		
29	WACHUSETTS ROAD	1988	No				
30	WACHUSETTS ROAD	1988	No				
33	WACHUSETTS ROAD	1988	Yes	No	No		
36	WACHUSETTS ROAD	1986	Yes	No	No		CLEANOUT UNDER FLOOR
39	WACHUSETTS ROAD	1988	Yes	No	No		
40	WACHUSETTS ROAD	1988	No		1		
46	WACHUSETTS ROAD	1988	Yes	No	No		
49	WACHUSETTS ROAD	1988	Yes	No	No		
54	WACHUSETTS ROAD	1988	Yes	No	No		
57	WACHUSETTS ROAD	1988	Yes	No	No		



64	WACHUSETTS ROAD	1986	Yes	No	No			CLEANOUT BELOW FLOOR LEVEL
83	WACHUSETTS ROAD	1988	No					
95	WACHUSETTS ROAD	1988	Yes	No				
99	WACHUSETTS ROAD	1988	No					
101	WACHUSETTS ROAD	1988	Yes	No				
107	WACHUSETTS ROAD	1988	No					
-	WALKER HOME BARN	1987	Yes	Yes	No			
-	WALKER HOME COTTAGE	1987	Yes	No	Yes			PUMPED TO DRY WELL
-	WALKER HOME HOUSE	1987	Yes	No	No			
	WALKER HOME SCHOOL	1987	Yes	No	No			
77	WALKER LANE	1988	No					
11	WALNUT STREET	1986	Yes	No	No			CLEANOUT BURIED UNDER FLOOR
12	WALNUT STREET	1985	Yes	No	No			
12	WALNUT STREET	2008	No					
15	WALNUT STREET	2008	Yes	No				
16	WALNUT STREET	1985	Yes	No	No			
16	WALNUT STREET	2008	Yes	Yes	Yes	1	YARD	
19	WALNUT STREET	1985	Yes	No	No			CLEANOUT BURIED BEHIND FINISHED WALL
19	WALNUT STREET	2008	Yes	No				
20	WALNUT STREET	1985	Yes	No	No			
20	WALNUT STREET	2008	Yes	No				
27	WALNUT STREET	1991	No					
27	WALNUT STREET	2008	Yes	No	Yes	1	YARD	
30	WALNUT STREET	1991	No					
30	WALNUT STREET	2008	Yes	Yes	Yes	1	YARD	
34	WALNUT STREET	1991	No					REINSPECTION
34	WALNUT STREET	2008	Yes	Yes	Yes	2	YARD	
35	WALNUT STREET	1985	Yes	No	No			
40	WALNUT STREET	1985	Yes	Yes	Yes		PLUMBING	
40	WALNUT STREET	2008	Yes	Yes	Yes	1	OWNER SAYS TO TOWN DRAIN	
45	WALNUT STREET	1985	Yes	No	No			
45	WALNUT STREET	2008	Yes	No				
46	WALNUT STREET	1985	Yes	No	No			
46	WALNUT STREET	2008	No					
49	WALNUT STREET	1986	Yes	No	No			
49	WALNUT STREET	2008	Yes	No				
52	WALNUT STREET	1991	No					
52	WALNUT STREET	2008	Yes	No				
55	WALNUT STREET	1985	Yes	No	No			
55	WALNUT STREET	2008	Yes	No				



58	WALNUT STREET	1989	Yes	No	No		
58	WALNUT STREET	2008	No	110	110		
59	WALNUT STREET	1985	Yes	No	No		
59	WALNUT STREET	2008	Yes	No			
65	WALNUT STREET	1986	Yes	No	No		
65	WALNUT STREET	2008	Yes	No			
69	WALNUT STREET	1986	Yes	No	No		
69	WALNUT STREET	2008	Yes	No			
72	WALNUT STREET	1985	Yes	No	No		
72	WALNUT STREET	2008	Yes	No			
78	WALNUT STREET	1989	Yes	No	No		
78	WALNUT STREET	2008	Yes	No			
39767	WALNUT STREET	2008	No				
39/41	WALNUT STREET	1986	Yes	No	No		
39-41	WALNUT STREET	2008	No				
4	WARE STREET	1988	No				
11	WARE STREET	1988	Yes	No	No		
22	WARE STREET	1988	No				
25	WARE STREET	1988	No				
34	WARE STREET	1988	No				HOUSE DRAINS GOING INTO GROUND
37	WARE STREET	1988	No				
40	WARE STREET	1988	No				HOUSE DRAINS GOING INTO GROUND
40	WARE STREET WARE STREET	1988 1988	No No				
46	WARE STREET	1988	No				
46 51	WARE STREET WARE STREET	1988 1988	No No				
46 51 56	WARE STREET WARE STREET WARE STREET	1988 1988 1988	No No No				
46 51 56 57 61	WARE STREET WARE STREET WARE STREET WARE STREET	1988 1988 1988 1988	No No No No				
46 51 56 57 61	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET	1988 1988 1988 1988 1988	No No No No				
46 51 56 57 61 67 74	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET	1988 1988 1988 1988 1988 1988	No No No No No				
46 51 56 57 61 67 74 75	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET	1988 1988 1988 1988 1988 1988 1988 1988	No No No No No No No No No No No Yes	No	No		
46 51 56 57 61 67 74	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET	1988 1988 1988 1988 1988 1988 1988 1988	NO NO NO NO NO NO NO NO NO NO NO	No	No		
46 51 56 57 61 67 74 75 13 14	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET	1988 1988 1988 1988 1988 1988 1988 1988	No No No No No No No No No No No Yes	No No	No No		GROUND
46 51 56 57 61 67 74 75 13 14 21	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WAREN STREET	1988 1988 1988 1988 1988 1988 1988 1988	No No No No No No No No No No No No No N				GROUND
46 51 56 57 61 67 74 75 13 14 21 22	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WAREN STREET WARREN STREET WARREN STREET	1988 1988 1988 1988 1988 1988 1988 1988	No No No No No No No No No No No No No N	No	No		GROUND
46 51 56 57 61 67 74 75 13 14 21 22 27 28	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARREN STREET WARREN STREET WARREN STREET WARREN STREET WARREN STREET WARREN STREET WARREN STREET WARREN STREET	1988 1988 1988 1988 1988 1988 1988 1988 1988 1986 1985 1985 1985 1986	No No No No No No No No No No No No No Yes Yes Yes	No	No No No		GROUND
46 51 56 57 61 67 74 75 13 14 21 22 27 28 32	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WAREN STREET WARREN STREET	1988 1988 1988 1988 1988 1988 1988 1988	No No No No No No No No No No Yes No Yes Yes No Yes Yes Yes Yes	No No No No	No No No		GROUND
46 51 56 57 61 67 74 75 13 14 21 22 27 28 32 54	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WAREN STREET WARREN STREET	1988 1988 1988 1988 1988 1988 1988 1988	No	No No No No No	No No No No		GROUND
46 51 56 57 61 67 74 75 13 14 21 22 27 28 32 54 58	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WAREN STREET WARREN STREET	1988 1988 1988 1988 1988 1988 1988 1988 1986 1985 1985 1985 1986 1986 1986	No No No No No No No No No No Yes No Yes Yes No Yes Yes Yes Yes	No No No No	No No No		GROUND
46 51 56 57 61 67 74 75 13 14 21 22 27 28 32 54 58 61	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WAREN STREET WARREN STREET	1988 1988 1988 1988 1988 1988 1988 1988 1986 1985 1985 1986 1986 1986 1986 1986	No	No No No No No No	No No No No No No		GROUND
46 51 56 57 61 67 74 75 13 14 21 22 27 28 32 54 58	WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WARE STREET WAREN STREET WARREN STREET	1988 1988 1988 1988 1988 1988 1988 1988 1986 1985 1985 1985 1986 1986 1986	No	No No No No No	No No No No No		GROUND



68	WARREN STREET	1985	No				NO CONNECTION
73	WARREN STREET	1985	Yes	No	No		
74	WARREN STREET	1989	No				
77	WARREN STREET	1986	Yes	No	No		
78	WARREN STREET	1985	Yes	No	No		
83	WARREN STREET	1985	Yes	No	No		
86	WARREN STREET	1985	Yes	No	No		
89	WARREN STREET	1985	Yes	No	No		CLEANOUT NOT VISIBLE
94	WARREN STREET	1986	No		No		
95	WARREN STREET	1985	Yes	No	No		
100	WARREN STREET	1986	Yes	No	No		
101	WARREN STREET	1986	Yes	No	No		
105	WARREN STREET	1986	No				UNDER 18, PARENTS NOT HOME
106	WARREN STREET	1985	Yes	No	No		
140	WARREN STREET	1985	Yes	No	No		
146	WARREN STREET	1985	Yes	No	No		CLEANOUT UNDER PORCH
150	WARREN STREET	1986	Yes	No	No		
151	WARREN STREET	1985	Yes	No	No		NO SEWER CESSPOOL, CONNECTION AROUND HOUSE TO FRONT
154	WARREN STREET	1989	No				
159	WARREN STREET	1985	Yes	No	No		
162	WARREN STREET	1986	Yes	No	No		
171	WARREN STREET	1985	Yes	No	No		
172	WARREN STREET	1989	Yes	No	No		CLEANOUT NOT VISIBLE
208	WARREN STREET	1989	No				
213	WARREN STREET	1986	Yes	No	No		
216	WARREN STREET	1986	Yes	No	Yes	GROUND	
221	WARREN STREET	1986	Yes	No	No		
224	WARREN STREET	1989	Yes	No	No		
232	WARREN STREET	1989	No				
233	WARREN STREET	1986	Yes	No	No		
240	WARREN STREET	1985	Yes	No	No		
243	WARREN STREET	1986	Yes	No	Yes		
248	WARREN STREET	1989	No				
249	WARREN STREET	1986	Yes	No	No		
260	WARREN STREET	1985	Yes	No	No		
263	WARREN STREET	1985	Yes	No	Yes	GROUND	
264	WARREN STREET	1989	Yes	No	No		CLEANOUT IN GARAGE
267	WARREN STREET	1985	Yes	No	No		
268	WARREN STREET	1985	No				
271	WARREN STREET	1986	Yes	No	No		
272	WARREN STREET	1986	Yes	No	No		



276	MADDEN CEDELE	1000	Vas	No	No		
276	WARREN STREET	1986	Yes	No	No		
277	WARREN STREET	1986	Yes	No	No		
281	WARREN STREET	1986	Yes	No	No		
282	WARREN STREET	1985	Yes	No	No		
286	WARREN STREET	1986	Yes	No	No		
287	WARREN STREET	1986	Yes	No	No		
290	WARREN STREET	1985	Yes	No	No		
291	WARREN STREET	1989	No				
295	WARREN STREET	1986	Yes	No	No		
296	WARREN STREET	1986	Yes	No	No		
301	WARREN STREET	1986	Yes	No	No		
302	WARREN STREET	1985	Yes	No	Yes		
305	WARREN STREET	1985	Yes	No	Yes	GROUND	
308	WARREN STREET	1985	Yes	No	No		
309	WARREN STREET	1986	Yes	No	No		
312	WARREN STREET	1986	Yes	Yes	Yes	GROUND	
315	WARREN STREET	1989	Yes	Yes	Yes	PLUMBING	
318	WARREN STREET	1986	Yes	No	No		
321	WARREN STREET	1986	Yes	No	No		
322	WARREN STREET	1988	Yes	No	Yes		
338	WARREN STREET	1989	No				
341	WARREN STREET	1986	Yes	No	No		
346	WARREN STREET	1985	Yes	No	No		
349	WARREN STREET	1985	Yes	No	No		
359	WARREN STREET	1986	Yes	No	No		
365	WARREN STREET	1986	Yes	No	Yes	GROUND	
366	WARREN STREET	1985	Yes	No	No		
372	WARREN STREET	1989	Yes	No	No		PIPE NOT VISIBLE
375	WARREN STREET	1989	Yes	No	No		
376	WARREN STREET	1985	Yes	No	No		
381	WARREN STREET	1986	Yes	No	No		
382	WARREN STREET	1986	Yes	No	No		
386	WARREN STREET	1985	Yes	No	No		
401	WARREN STREET	1985	Yes	No	No		
415	WARREN STREET	2008	Yes	No	No		INJECTION SYSTEM PUMPS OUT TO STREET
9	WASHBURN AVE	1988	Yes	No	No		
15	WASHBURN AVE		Yes	No	No		
19	WASHBURN AVE	1987	Yes	No	No		
20	WASHBURN AVE	1987	Yes	No	No		
27	WASHBURN AVE	1988	Yes	No	No		
30	WASHBURN AVE	1987	Yes	No	No		
35	WASHBURN AVE	1988	No	-			
38	WASHBURN AVE	1988	Yes	No	No		



3	WASHINGTON AVE	1986	Yes	No	No		
21	WASHINGTON AVE	1988	Yes	No	Yes		
22	WASHINGTON AVE	1986	Yes	No	No		
27	WASHINGTON AVE	1986	Yes	No	No		
28	WASHINGTON AVE	1986	Yes	No	No		
33	WASHINGTON AVE	1988	Yes	No	No		
34	WASHINGTON AVE	1988	No				
45	WASHINGTON AVE	1988	No				
51	WASHINGTON AVE	1988	No				
56	WASHINGTON AVE	1988	Yes	No	No		
57	WASHINGTON AVE	1988	Yes	No	No		
62	WASHINGTON AVE	1988	Yes	No	No		
63	WASHINGTON AVE	1986	Yes	No	No		
66	WASHINGTON AVE	1988	Yes	No	No		
67	WASHINGTON AVE	1988	Yes	No	No		
70	WASHINGTON AVE	1986	Yes	No	No		
71	WASHINGTON AVE	1986	Yes	No	No		
74	WASHINGTON AVE	1988	Yes	No	No		CLEANOUT AT FLOOR LEVEL
75	WASHINGTON AVE	1988	Yes	No	No		
79	WASHINGTON AVE	1988	Yes	No	No		
80	WASHINGTON AVE	1986	Yes	No	No		
86	WASHINGTON AVE	1988	Yes	No	No		
89	WASHINGTON AVE	1988	No	-			
92	WASHINGTON AVE	1986	Yes	Yes	Yes		
99	WASHINGTON AVE	1986	Yes	No	No		
100	WASHINGTON AVE	1988	Yes	Yes	Yes	SEWER	
104	WASHINGTON AVE	1989	Yes	No	No		
109	WASHINGTON AVE	1988	Yes	No	No		
112	WASHINGTON AVE	1988	Yes	Yes	Yes	GROUND	HEAVY RAINS WHEN IN USE
118	WASHINGTON AVE	1989	Yes	No	No		
121	WASHINGTON AVE	1988	Yes	No	No		CLEANOUT NOT VISIBLE
122	WASHINGTON AVE	1988	Yes	No	No		
131	WASHINGTON AVE	1988	Yes	Yes	No		
132	WASHINGTON AVE	1988	Yes	No	No		
137	WASHINGTON AVE	1986	Yes	Yes	No		
144	WASHINGTON AVE	1988	Yes	No	No		
145	WASHINGTON AVE	1986	Yes	No	No		
159	WASHINGTON AVE	1988	Yes	No	No		
162	WASHINGTON AVE	1988	Yes	No	No		
174	WASHINGTON AVE	1988	Yes	No	No		
180	WASHINGTON AVE	1989	Yes	No	No		
188	WASHINGTON AVE	1988	No				
198	WASHINGTON AVE	1988	Yes	No	No		



204	11/16/11/10/2011 11/5	1005			T .,	1	
204	WASHINGTON AVE	1986	Yes	Yes	Yes		
212	WASHINGTON AVE	1989	No				
213	WASHINGTON AVE	1988	Yes	No	No		
216	WASHINGTON AVE	1986	Yes	No	No		
242	WASHINGTON AVE	1986	Yes	No	Yes		
249	WASHINGTON AVE	1988	Yes	No	No		
255	WASHINGTON AVE	1989	Yes	No	No		CLEANOUT BURIED UNDER FLOOF
260	WASHINGTON AVE	1988	Yes	No	No		
3	WAYNE ROAD	1986	Yes	No	No		
11	WAYNE ROAD	1986	Yes	No	No		PIPE NOT VISIBLE
17	WAYNE ROAD	1986	Yes	Yes	Yes	GROUND	
20	WAYNE ROAD	1986	No				
23	WAYNE ROAD	1986	No				NOT CONNECTED, PIPE INSTALLED 11/3/83
25	WAYNE ROAD	1986	No				
30	WAYNE ROAD	1986	Yes	No	No		
35	WAYNE ROAD	1986	Yes	No	No		
36	WAYNE ROAD	1986	Yes	Yes	Yes	GROUND	
44	WAYNE ROAD	1986	Yes	Yes	Yes	GROUND	
52	WAYNE ROAD	1988	No				
53	WAYNE ROAD	1986	Yes	No	No		
60	WAYNE ROAD	1986	Yes	Yes	Yes	GROUND	
61	WAYNE ROAD	1986	Yes	No	No		
66	WAYNE ROAD	1986	Yes	No	No		
67	WAYNE ROAD	1986	Yes	No	No		
74	WAYNE ROAD	1996	Yes	No	No		
77	WAYNE ROAD	1986	Yes	Yes	Yes	GROUND	
80	WAYNE ROAD	1986	Yes	No	No	0.100112	CLEANOUT IN GARAGE
83	WAYNE ROAD	1988	Yes	No	Yes	GROUND	CLEANOUT NOT VISIBLE
88	WAYNE ROAD	1986	Yes	No	No	55	
97	WAYNE ROAD	1986	Yes	No	No		PIPE NOT VISIBLE
98	WAYNE ROAD	1986	Yes	No	No		
103	WAYNE ROAD	1988	No				
4	WEBSTER STREET	1988	No				
11	WEBSTER STREET	1986	Yes	No	No		
				1.12			
				1			
				1			
				No	No		
				1	.,,		
				No	No		
58				1	.,,		
12 13 23 24 28 48 56	WEBSTER STREET WEBSTER STREET WEBSTER STREET WEBSTER STREET WEBSTER STREET WEBSTER STREET WEBSTER STREET WEBSTER STREET WEBSTER STREET	1988 1988 1988 1986 1988 1988 1988	No No No Yes Yes No Yes No	No No No	No No No		



59	WEBSTER STREET	1986	Yes	No	No	
60	WEBSTER STREET	1988	No		117	
63	WEBSTER STREET	1988	Yes	No	No	
70	WEBSTER STREET	1986	No		110	
71	WEBSTER STREET	1986	Yes	No	No	CLEANOUT IN CLOSET UNDER FLOOR
72	WEBSTER STREET	1988	Yes	No	No	
78	WEBSTER STREET	1986	Yes	No	No	CLEANOUT IN GARAGE
83	WEBSTER STREET	1988	No			
86	WEBSTER STREET	1986	Yes	No	No	CLEANOUT IN BATHROOM IN CELLAR
95	WEBSTER STREET	1988	Yes	No	No	
102	WEBSTER STREET	1986	Yes	No	No	TOILET PUT OVER CLEANOUT II CELLAR BATHROOM
107	WEBSTER STREET	1988	Yes	No	No	
112	WEBSTER STREET	1988	No			
113	WEBSTER STREET	1986	Yes	No	Yes	SUMP PUMP NOT CONNECTED TO ANYTHING
119	WEBSTER STREET	1986	Yes	No	No	
122	WEBSTER STREET	1986	No			
125	WEBSTER STREET	1988	Yes	No	No	
128	WEBSTER STREET	1986	No			
133	WEBSTER STREET	1986	Yes	No	No	
138	WEBSTER STREET	1988	Yes	No	No	CLEANOUT BURIED
145	WEBSTER STREET	1986	Yes	No	No	
152	WEBSTER STREET	1988	No			
157	WEBSTER STREET	1988	No			
159	WEBSTER STREET	1986	Yes	No	No	
160	WEBSTER STREET	1986	Yes	No	No	
168	WEBSTER STREET	1988	Yes	No	No	
171	WEBSTER STREET	1986	Yes	No	No	
178	WEBSTER STREET	1988	No			
179	WEBSTER STREET	1988	Yes	No	No	
190	WEBSTER STREET	1986	Yes	No	No	CLEANOUT NOT VISIBLE
194	WEBSTER STREET	1988	Yes	No	No	
198	WEBSTER STREET	1988	No			
201	WEBSTER STREET	1986	Yes	No	No	CLEANOUT UNDER FLOOR IN BATHROOM BASEMENT
207	WEBSTER STREET	1988	No			
208	WEBSTER STREET	1986	No			
213	WEBSTER STREET	1986	Yes	No	No	INSIDE PLUMBING NOT CONNECTED YET
216	WEBSTER STREET	1988	No			



224	WEBSTER STREET	1986	Yes	No	No			CLEANOUT BURIED UNDER CONCRETE
248	WEBSTER STREET	1988	No					CONCRETE
253	WEBSTER STREET	1988	No					
277	WEBSTER STREET	1985	Yes	No	No			
285	WEBSTER STREET	1985	No	NO	INO			
290	WEBSTER STREET	1986	Yes	No	No			
293	WEBSTER STREET	1986	Yes	No	No			
298	WEBSTER STREET	1986	Yes	No	No			
299	WEBSTER STREET	1985	Yes	No	No			
302	WEBSTER STREET	1986	Yes	No	No			
307	WEBSTER STREET	1985	Yes	No	No			
307	WEBSTER STREET	1505	103	110	INO			DRAIN IN DRIVEWAY CONNECTED
308	WEBSTER STREET	1985	Yes	Yes	No			TO CLEANOUT
312	WEBSTER STREET	1986	Yes	No	No			
314	WEBSTER STREET	1985	Yes	No	No			
315	WEBSTER STREET	1985	Yes	No	No			
321	WEBSTER STREET	1986	Yes	No	No			
326	WEBSTER STREET	1989	No					
348	WEBSTER STREET	1986	Yes	No	No			
351	WEBSTER STREET	1985	No					
354	WEBSTER STREET	1986	Yes	No	No			
355	WEBSTER STREET	1986	Yes	No	No			
357	WEBSTER STREET	1986	Yes	No	No			
361	WEBSTER STREET	1986	Yes	No	No			4" U TYPE TRAP WHERE CLEANOUT SHOULD BE
362	WEBSTER STREET	1985	No					
372	WEBSTER STREET	1986	Yes	No	No			
378	WEBSTER STREET	1985	Yes	No	No			
381	WEBSTER STREET	1989	Yes	No	Yes		GROUND	
385	WEBSTER STREET	1985	No					
394	WEBSTER STREET	1986	Yes	No	No			
403	WEBSTER STREET	1985	Yes	Yes	No			BACK WAKE VALVE LOCATED NEXT TO CLEANOUT
404	WEBSTER STREET	1986	No					
409	WEBSTER STREET	1986	Yes	No	No	1		CLEANOUT NOT VISIBLE
410	WEBSTER STREET	1985	Yes	No	No			
411	WEBSTER STREET	1985	Yes	No	Yes	1	SINK	
419	WEBSTER STREET	1986	Yes	Yes	Yes	1	GROUND	
430	WEBSTER STREET	1985	Yes	No	No	1		
436	WEBSTER STREET	1985	Yes	No	No	1		
444	WEBSTER STREET	1986	Yes	No	No			
454	WEBSTER STREET	1986	Yes	No	No			
459	WEBSTER STREET	1985	Yes	No	No			



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464	WEBSTER STREET	1986	Yes	No	Yes	BASIN	
474	WEBSTER STREET	1985	No				
475	WEBSTER STREET	1986	Yes	Yes	Yes	GROUND	
490	WEBSTER STREET	1986	Yes	No	No		
491	WEBSTER STREET	1986	Yes	No	No		
499	WEBSTER STREET	1985	Yes	No	No		
510	WEBSTER STREET	1985	Yes	No	No		
514	WEBSTER STREET	1986	Yes	No	No		
520	WEBSTER STREET	1985	Yes	No	No		
550	WEBSTER STREET	1989	Yes	No	No		
551	WEBSTER STREET	1988	No				
556	WEBSTER STREET	1986	Yes	No	No		
557	WEBSTER STREET	1989	No				
561	WEBSTER STREET		Yes	No	No		
562	WEBSTER STREET	1986	Yes	No	No		
567	WEBSTER STREET	1986	Yes	No	No		
568	WEBSTER STREET	1988	Yes	No	No		
573	WEBSTER STREET	1986	Yes	No	No		
574	WEBSTER STREET	1989	Yes	No	No		
583	WEBSTER STREET	1988	Yes	No	No		
591	WEBSTER STREET	1988	Yes	No	No		CLEANOUT EVEN WITH FLOOR
594	WEBSTER STREET	1988	Yes	No	No		
595	WEBSTER STREET	1988	Yes	No	No		CLEANOUT IN GARAGE
598	WEBSTER STREET	1989	Yes	No	No		
604	WEBSTER STREET	1986	Yes	No	No		
608	WEBSTER STREET	1989	Yes	No	No		CLEANOUT NOT VISIBLE
614	WEBSTER STREET	1988	Yes	No	No		
622	WEBSTER STREET	1989	Yes	No	No		
628	WEBSTER STREET	1988	Yes	No	No		PLUMBING CONNECTED TO CLEANOUT
642	WEBSTER STREET	1988	Yes	No	No		
646	WEBSTER STREET	1988	Yes	No	No		CLEANOUT BELOW FLOOR
652	WEBSTER STREET	1989	Yes	Yes	No		BASEMENT DAMP AROUND BULKHEAD, BROKEN CEMENT PATCH
657	WEBSTER STREET	1989	No				
662	WEBSTER STREET	1988	Yes	No	No		
666	WEBSTER STREET	1988	No				
667	WEBSTER STREET	1988	No				
673	WEBSTER STREET	1988	Yes	No	No		
674	WEBSTER STREET	1988	Yes	No	No		
686	WEBSTER STREET	1988	Yes	No	No		
687	WEBSTER STREET	1989	Yes	Yes	Yes	GROUND	
694	WEBSTER STREET	1986	Yes	No	No		



695	WEBSTER STREET	1986	Yes	No	No	
		1988			No	
700	WEBSTER STREET		Yes	No	No	
701	WEBSTER STREET	1988	Yes	No	No	
706	WEBSTER STREET	1986	Yes	No	No	
711	WEBSTER STREET	1988	Yes	No	No	
712	WEBSTER STREET	1988	Yes	No	No	
716	WEBSTER STREET	1988	Yes	No	No	
728	WEBSTER STREET	1988	No			
733	WEBSTER STREET	1986	Yes	No	No	
736	WEBSTER STREET	1986	Yes	No	No	
748	WEBSTER STREET	1986	No			
751	WEBSTER STREET	1988	Yes	No	No	
757	WEBSTER STREET	1988	Yes	No	No	CLEANOUT AT FLOOR LEVEL
758	WEBSTER STREET	1988	Yes	No	No	
762	WEBSTER STREET	1988	No			
763	WEBSTER STREET	1986	Yes	No	No	
769	WEBSTER STREET	1986	Yes	No	No	
775	WEBSTER STREET	1988	Yes	No	No	
776	WEBSTER STREET	1988	Yes	No	No	
780	WEBSTER STREET	1988	No			
783	WEBSTER STREET	1988	Yes	No		
786	WEBSTER STREET	1988	Yes	No	No	
815	WEBSTER STREET	1988	No			
820	WEBSTER STREET	1986	Yes	No	No	
821	WEBSTER STREET	1986	No			
826	WEBSTER STREET	1988	Yes	No	No	
829	WEBSTER STREET	1988	Yes	No	No	CLEANOUT AT FLOOR LEVEL
832	WEBSTER STREET	1988	Yes	No	No	
835	WEBSTER STREET	1986	Yes	No	No	
838	WEBSTER STREET	1988	Yes	No	No	
841	WEBSTER STREET	1986	Yes	No	No	
847	WEBSTER STREET	1988	No			
857	WEBSTER STREET	1988	Yes	No	No	
858	WEBSTER STREET	1988	No			
863	WEBSTER STREET	1986	Yes	No	No	PIPE COVERED
864	WEBSTER STREET	1986	Yes	No	No	
871	WEBSTER STREET	1986	Yes	No	No	
885	WEBSTER STREET	1988	Yes	No	No	CLEANOUT BURIED UNDER FLOOR
893	WEBSTER STREET	1988	No			
897	WEBSTER STREET	1988	No			
903	WEBSTER STREET	1986	Yes	No	No	
909	WEBSTER STREET	1986	Yes	No	No	
914	WEBSTER STREET	1986	Yes	No	No	
314	WEDSTER STREET	1300	162	INO	INO	



929	WEBSTER STREET	1987	Yes	No	No			CLEANOUT ABOVE FLOOR
935	WEBSTER STREET	1988	Yes	No	No			
938	WEBSTER STREET	1987	Yes	No	No			CLEANOUT ABOVE FLOOR
945	WEBSTER STREET	1987	Yes	No	No			CLEANOUT NOT VISIBLE
952	WEBSTER STREET	1988	No					
954	WEBSTER STREET	1988	Yes	No	No			
955	WEBSTER STREET	1987	No					
961	WEBSTER STREET	1987	Yes	No	No			
962	WEBSTER STREET	1987	Yes	No	No			
967	WEBSTER STREET	1988	No					
968	WEBSTER STREET	1987	Yes	No	No			CLEANOUT OUTSIDE IN MANHOLE
971	WEBSTER STREET	1988	Yes	No	No			
978	WEBSTER STREET	1987	Yes	No	No			
983	WEBSTER STREET	1988	Yes	No	No			
984	WEBSTER STREET	1988	Yes	No	Yes	G	ROUND	PUMP GOES THROUGH RETRACTABLE PIPING OUT OF WNDOW
990	WEBSTER STREET	1987	Yes	Yes	Yes	G	ROUND	CLEANOUT OUTSIDE HOUSE
1007	WEBSTER STREET	1988	?	?	?		?	NO OCCUPANCY
1011	WEBSTER STREET	1987	Yes	No	No			
1016	WEBSTER STREET	1988	Yes	No	No			
1019	WEBSTER STREET	1987	Yes	No	No			
1022	WEBSTER STREET	1988	Yes	No	No			
1028	WEBSTER STREET	1988	Yes	No	No			
1034	WEBSTER STREET	1988	No					
1041	WEBSTER STREET	1988	No					
1044	WEBSTER STREET	1988	Yes	No	No			
1049	WEBSTER STREET	1988	Yes	No	Yes	G	ROUND	CLEANOUT NOT VISIBLE
1052	WEBSTER STREET	1987	Yes	No	No			
1062	WEBSTER STREET	1988	Yes	No	No			
1077	WEBSTER STREET	1988	Yes	No	No			
1087	WEBSTER STREET	1988	Yes	No	Yes	G	ROUND	
1107	WEBSTER STREET	1988	Yes	No	No			CLEANOUT NOT VISIBLE
1140	WEBSTER STREET	1988	Yes	No	No			MANHOLE IN BACKYARD
1200	WEBSTER STREET	1987	Yes	No	No			CAP HIDDEN
226/228	WEBSTER STREET	1986	Yes	No	No			
233/235	WEBSTER STREET	1988	Yes	No	No			
237/239	WEBSTER STREET	1988	Yes	No	No			
418/420	WEBSTER STREET	1985	Yes	No	No			
467/469	WEBSTER STREET	1986	No					
632/634	WEBSTER STREET	1988	Yes	No	No			WASHERS HOOKED UP TO CAP
746?	WEBSTER STREET	1988	ç	?	?		?	RIGHT ADDRESS?



827?	WEBSTER STREET	1988	?	?	?	?	RIGHT ADDRESS?
4	WENDLING ROAD	1986	Yes	No	No		
10	WENDLING ROAD	1988	Yes	No	No		
7	WEST STREET	1989	Yes	No	No		
13	WEST STREET	1986	Yes	Yes	Yes	PLUMBING	
19	WEST STREET	1985	Yes	No	No		
23	WEST STREET	1988	Yes	No	No		
26	WEST STREET	1985	Yes	No	No		
30	WEST STREET		Yes	No	No		
34	WEST STREET	1986	Yes	No	No		
184	WEST STREET	1987	Yes	No	No		
195	WEST STREET	1987	Yes	No	No		CLEANOUT NOT VISIBLE
203	WEST STREET	1988	Yes	No	No		
209	WEST STREET	1987	Yes	No	No		
215	WEST STREET	1988	Yes	No	No		
220	WEST STREET	1987	Yes	No	No		CLEANOUT NOT VISIBLE
276	WEST STREET	1986	No	Yes	Yes	GROUND	
278	WEST STREET	1986	Yes	No	No		CLEANOUT IN YARD
280	WEST STREET	1986	Yes	No	No		CLEANOUT EVEN WITH FLOOR
284	WEST STREET	1988	No				
288	WEST STREET	1988	Yes	No			CLEANOUT AT 290 SIDE
294	WEST STREET	1988	No				
296	WEST STREET	1988	No				
302	WEST STREET	1986	Yes	No	No		CLEANOUT IN BACK YARD
302	WEST STREET	1988	Yes	No	No		CLEANOUT IN BACK YARD
318	WEST STREET	1988	Yes	No	No		CLEANOUT IN GARAGE
322	WEST STREET	1988	Yes	No	No		
323	WEST STREET	1986	Yes	No	No		CLEANOUT NOT VISIBLE
328	WEST STREET	1988	Yes	No	No		
329	WEST STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
334	WEST STREET	1988	Yes	No	No		CLEANOUT IN GARAGE
337	WEST STREET	1988	Yes	No	No		
341	WEST STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
348	WEST STREET	1988	Yes	No	No		
360	WEST STREET	1988	Yes	No	No		
361	WEST STREET	1986	Yes	No	No		CLEANOUT EVEN WITH FLOOR
368	WEST STREET	1988	Yes	No	No		
371	WEST STREET	1988	Yes	No	No		CLEANOUT IN WALL
162/166	WEST STREET	1987	Yes	No	No		
167/169	WEST STREET	1987	No				
170/172	WEST STREET	1987	No				
189/191	WEST STREET	1987	Yes	No	No		CLEANOUT NOT VISIBLE
190/192	WEST STREET	1987	Yes	No	No		
206/206A	WEST STREET	1987	Yes	No	No		



214A/214B	WEST STREET	1988	Yes	Yes	No		WATER IN BACK DOOR
223/225	WEST STREET	1987	Yes	No	No		
231/233	WEST STREET	1987	No				
237/239	WEST STREET	1987	No				
243/245	WEST STREET	1987	No	Yes	No		
338/340	WEST STREET	1988	Yes	No	No		CLEANOUT NOT VISIBLE
394/296	WEST STREET	1986	No				
43/45	WEST STREET	1985	Yes	No	No		
49/51	WEST STREET	1985	Yes	No	No		
5	WHITING WAY	1985	Yes				NOT HOOKED UP
17	WHITING WAY	1986	Yes	No	No		
20	WHITING WAY	1985	Yes	No	No		
25	WHITING WAY	1986	No				
28	WHITING WAY	1989	Yes	No	No		CLEANOUT NOT VISIBLE
36	WHITING WAY	1989	Yes	No	No		022/11/03/11/03/22
37	WHITING WAY	1985	Yes	No	No		
45	WHITING WAY	1986	Yes	No	No		
46	WHITING WAY	1985	Yes	No	No		
49	WHITING WAY	1985	Yes	No	No		
51	WHITING WAY	1985	Yes	No	No		
52	WHITING WAY	1985	Yes	No	No		
57	WHITING WAY	1985	Yes	No	No		
60	WHITING WAY	1985	Yes	No	No		
63	WHITING WAY	1986	Yes	No	No		
68	WHITING WAY	1985	Yes	No	No		
69	WHITING WAY	1986	Yes	No	No		
75	WHITING WAY	1985	Yes	No	No		
78	WHITING WAY	1986	Yes	No	No		
81	WHITING WAY	1986	Yes	No	No		
84	WHITING WAY	1985	Yes	No	No		
89	WHITING WAY	1985	Yes	No	No		
95	WHITING WAY	1989	Yes	No	No		PIPE NOT VISIBLE
100	WHITING WAY	1985	Yes	No	No		1 2 0
101	WHITING WAY	1986	Yes	No	No		BACK WATER VALVE
9?	WHITING WAY	1985	No	110	110		RIGHT ADDRESS?
16	WHITMAN ROAD	1988	Yes	No	No		
25	WHITMAN ROAD	1988	No				
34	WHITMAN ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
43	WHITMAN ROAD	1988	Yes	No	No		222.0.231.1131.113122
54	WHITMAN ROAD	1987	Yes	No	No		CLEANOUT BURIED UNDER GARAGE
65	WHITMAN ROAD	1987	Yes	Yes	Yes		SUMP PUMP NOT CONNECTED
70	WHITMAN ROAD	1987	Yes	No	Yes	GROUND	SUMP PUMP IN GARAGE



81	WHITMAN ROAD	1988	No			
84	WHITMAN ROAD	1987	Yes	No	No	CLEANOUT UNDER FLOOR
99	WHITMAN ROAD	1987	Yes	No	No	CAN'T LOCATE CLEANOUT, BETWEEN WALLS IN BATHROOM
100	WHITMAN ROAD	1987	Yes	No	No	CLEANOUT NOT VISIBLE
119	WHITMAN ROAD	1988	Yes	No	No	
120	WHITMAN ROAD	1988	No			
140	WHITMAN ROAD	1988	Yes	No	No	CAP NOT VISIBLE
155	WHITMAN ROAD	1987	Yes	Yes	No	
156	WHITMAN ROAD	1988	No			
161	WHITMAN ROAD	1987	Yes	Yes	No	WATER SOMETIMES IN HEAVY RAIN
176	WHITMAN ROAD	1987	Yes	No	No	CLEANOUT BURIED
179	WHITMAN ROAD	1988	Yes	No	No	
7	WHITTIER ROAD	1988	Yes	No	No	
8	WHITTIER ROAD	1988	Yes	No	No	
20	WHITTIER ROAD	1988	Yes	No	No	
23	WHITTIER ROAD	1989	No			
33	WHITTIER ROAD	1988	Yes	No	No	
34	WHITTIER ROAD	1988	Yes	No	No	CLEANOUT ABOVE FLOOR
37	WHITTIER ROAD	1986	Yes	No	No	
43	WHITTIER ROAD	1989	No			
46	WHITTIER ROAD	1989	No			
49	WHITTIER ROAD	1988	Yes	No	No	
52	WHITTIER ROAD	1988	Yes	No	No	
53	WHITTIER ROAD	1989	Yes	No	No	
58	WHITTIER ROAD	1988	Yes	No	No	
61	WHITTIER ROAD	1986	Yes	No	No	
67	WHITTIER ROAD	1986	Yes	No	No	
70	WHITTIER ROAD	1988	Yes	No	No	
79	WHITTIER ROAD	1989	Yes	No	No	
84	WHITTIER ROAD	1989	Yes	No	No	GOING OUT TO BACK
85	WHITTIER ROAD	1989	No			
95	WHITTIER ROAD	1988	Yes	No	No	
-	WHITTIER ROAD	1986	No			
-	WHITTIER ROAD	1986	No			
6	WILDWOOD DRIVE	1988	No			
30	WILDWOOD DRIVE	1987	Yes	No	No	
31	WILDWOOD DRIVE	1987	Yes	No	No	
40	WILDWOOD DRIVE	1987	Yes	No	No	
41	WILDWOOD DRIVE	1987	Yes	No	No	
46	WILDWOOD DRIVE	1987	No			
50	WILDWOOD DRIVE	1987	Yes	No	No	



69 W 84 W 89 W 93 W 94 W 101 W 108 W 120 W 132 W 7 W 20 W 26 W	ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET VILLIAM STREET	1987 1988 1987 1988 1987 1988 1987 1987	Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No Yes No No No No No No No No	No Yes No No No No No No No		SINK	7 FOOT CELLAR, CAP UPPER LEVEL
84 W 89 W 93 W 94 W 101 W 108 W 120 W 132 W 7 V 15 W 20 W 26 W	ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET	1987 1988 1987 1988 1987 1987 1988 1988	No No No Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes	No No No No No	No No No No No		SIINK	
89 W 93 W 94 W 101 W 108 W 120 W 132 W 7 W 15 W	ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET	1988 1987 1988 1987 1987 1988 1988 1986 1986	No Yes Yes Yes Yes Yes Yes Yes Yes No Yes	No No No No	No No No No			
93 W 94 W 101 W 108 W 120 W 132 W 7 V 15 W	ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET	1987 1988 1987 1987 1988 1988 1986 1986	Yes Yes Yes Yes Yes Yes No Yes Yes	No No No No	No No No No			
94 W 101 W 108 W 120 W 132 W 7 W 15 W 20 W 26 W	ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET	1988 1987 1987 1988 1988 1986 1986	Yes Yes Yes Yes No Yes Yes	No No No No	No No No No			
101 W 108 W 120 W 132 W 7 W 15 W 20 W 26 W	ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET VILLIAM STREET	1987 1987 1988 1988 1986 1986	Yes Yes Yes No Yes Yes	No No No	No No No			
108 W 120 W 132 W 7 W 15 W 20 W 26 W	ILDWOOD DRIVE ILDWOOD DRIVE ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET VILLIAM STREET	1987 1988 1988 1986 1986	Yes Yes No Yes	No No No	No No No			
120 W 132 W 7 W 15 W 20 W 26 W	ILDWOOD DRIVE ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET VILLIAM STREET	1988 1988 1986 1986	Yes No Yes	No No	No No			CLEANOUT NOT WEIDLE LINES
132 W 7 W 15 W 20 W 26 W	ILDWOOD DRIVE VILLIAM STREET VILLIAM STREET VILLIAM STREET VILLIAM STREET	1988 1986 1986	No Yes Yes	No	No			CLEANOUT NOT WEIDLE LINES
7 W 15 W 20 W 26 W	VILLIAM STREET VILLIAM STREET VILLIAM STREET VILLIAM STREET	1986 1986 1986	Yes Yes					CLEANOUT NOT WEIDLE LINES
15 W 20 W 26 W	VILLIAM STREET VILLIAM STREET VILLIAM STREET	1986 1986	Yes					CLEANOUT NOT VICIDLE 199252
20 W 26 W	VILLIAM STREET VILLIAM STREET	1986		No	N/ ·			CLEANOUT NOT VICIDLE LINES
26 V	VILLIAM STREET		Ve-		No			CLEANOUT NOT VISIBLE, UNDER BASEMENT FLR, THERE'S WATER
		1000	Yes	No	No			
	VILLIAM STREET	1986	Yes	No	No			NOT VISIBLE
	VILLIFAIVI STINELT	1986	Yes	No	No			CLEAN OUT AT FLOOR LEVEL
34 V	VILLIAM STREET	1986	Yes	No	No			CLEAN OUT UNDER FLR, A LITTLE WATER IN CORNER
40 V	VILLIAM STREET	1986	Yes	No	No			
	VILLIAM STREET	1986	Yes	No	No			CLEANOUT BURIED UNDER CONCRETE IN CLOSET
47 V	VILLIAM STREET	1988	No					
	VILLOW STREET	1985	Yes	Yes	Yes		PLUMBING	1
	VILLOW STREET	2008	Yes	No	Yes	1	UNK	OWNER BOUGHT HOUSE & DOESN'T KNOW WHERE PUMP IS PIPED TO
12 V	VILLOW STREET	2008	No					
24 V	VILLOW STREET	1985	Yes	No	No			CLEANOUT BURIED
24 V	VILLOW STREET	2008	Yes	Yes	Yes	1	SIDEWALK	FINISHED BASEMENT
25 V	VILLOW STREET	1986	Yes	Yes	Yes		GROUND	CLEANOUT IN BATHROOM IN CELLAR
25 V	VILLOW STREET	2008	Yes	Yes	Yes	1	YARD	
	VILLOW STREET	1989	Yes	No	No			
	VILLOW STREET	2008	Yes	Yes	Yes	1	HOSED TO YARD	
	VILLOW STREET	1985	Yes	Yes	Yes		GROUND	
	VILLOW STREET	2008	Yes	Yes	Yes	2	YARD	
	WILSHIRE PARK	1988	Yes	No	No			
	WILSHIRE PARK	1988	No					
	WILSHIRE PARK	1988	Yes	No	No			UNDER FLOOR
	WILSHIRE PARK	1986	No					
	WILSHIRE PARK	1986	Yes	No	No			+
	WILSHIRE PARK	1988	Yes	No	No			+



WILSHIRE PARK	1986	Yes	No	No		
	4006					
WILSHIRE PARK	1986	Yes	No	No		
			ł			
			No	No	NO S	SEWER SYSTEM
			ł	1		
WILSHIRE PARK	1986	Yes	No	No		
WILSHIRE PARK	1988	Yes	No	No	CLEANOUT	FBURIED UNDER RUG
WILSHIRE PARK	1988	Yes	No	No		
WILSHIRE PARK	1986	Yes	No	No		
WILSHIRE PARK	1988	Yes	No	No	CLEANC	OUT BELOW FLOOR
WILSHIRE PARK	1986	Yes	No	No		
WILSHIRE PARK	1986	Yes	No	No		
WILSHIRE PARK	1988	No				
WILSHIRE PARK	1988	No				
WILSHIRE PARK	1988	No				
WILSHIRE PARK	1986	Yes	No	No		
	1986		No	1		
WILSHIRE PARK	1986	Yes	No	No		
WILSHIRE PARK	1988	Yes	No	No		
WILSHIRE PARK	1988	No				
WILSHIRE PARK	1986	Yes	No	No		
WILSHIRE PARK	1988	Yes	No	No		
WILSHIRE PARK	1988	Yes	No	No	CLEANC	OUT UNDER FLOOR
			No	No		
				1	F	LOOR LEVEL
			No	No	CLEANC	OUT ABOVE FLOOR
					-	
			No	No	CLEAN	OUT NOT VISIBLE
						OUT NOT VISIBLE
			1.2		G-22	
WINFIELD STREET	1987	Yes	No	No		T NOT VISIBLE, SLAB, O BASEMENT
WINFIELD STREET	1988	No			1	O D. IJEIVIEIVI
			1			
	WILSHIRE PARK WINFIELD STREET WINFIELD STREET WINFIELD STREET WINFIELD STREET WINFIELD STREET WINFIELD STREET	WILSHIRE PARK 1986 WILSHIRE PARK 1988 WILSHIRE PARK 1988 WILSHIRE PARK 1986 WILSHIRE PARK 1986 WILSHIRE PARK 1988 WILSHIRE PARK 1988 WILSHIRE PARK 1986 WILSHIRE PARK 1986 WILSHIRE PARK 1986 WILSHIRE PARK 1986 WILSHIRE PARK 1988 WILSHIRE PARK 1988 WILSHIRE PARK 1988 WILSHIRE PARK 1986 WILSHIRE PARK 1986 WILSHIRE PARK 1986 WILSHIRE PARK 1986 WILSHIRE PARK 1988 WILSHIR	WILSHIRE PARK 1986 Yes WILSHIRE PARK 1986 Yes WILSHIRE PARK 1988 No WILSHIRE PARK 1986 Yes WILSHIRE PARK 1986 Yes WILSHIRE PARK 1988 Yes WILSHIRE PARK 1988 Yes WILSHIRE PARK 1986 Yes WILSHIRE PARK 1988 No WILSHIRE PARK 1988 No WILSHIRE PARK 1986 Yes WILSHIRE PARK 1986 Yes WILSHIRE PARK 1986 Yes WILSHIRE PARK 1988 Yes	WILSHIRE PARK 1986 Yes No WILSHIRE PARK 1988 No No WILSHIRE PARK 1986 Yes No WILSHIRE PARK 1986 Yes No WILSHIRE PARK 1988 Yes No WILSHIRE PARK 1988 Yes No WILSHIRE PARK 1986 Yes No WILSHIRE PARK 1988 Yes No WILSHIRE PARK 1986 Yes No WILSHIRE PARK 1986 Yes No WILSHIRE PARK 1988 No No WILSHIRE PARK 1986 Yes No WILSHIRE PARK 1986 Yes No WILSHIRE PARK 1988 Yes No WILSHIRE PARK 1988 Yes No	WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1988 No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1988 No WILSHIRE PARK 1988 No WILSHIRE PARK 1988 No WILSHIRE PARK 1988 No WILSHIRE PARK 1986 Yes No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1986 Yes No No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE PARK 1988 Yes No No No WILSHIRE	WILSHIRE PARK 1986 Yes Yes No No No No No No No N



1	WINSLOW ROAD	1986	Vos	No	No		
			Yes	-	No		
2	WINSLOW ROAD	1985	Yes	No	No		
14	WINSLOW ROAD	1986	Yes	No	No		
15	WINSLOW ROAD	1985	Yes	No	No		
20	WINSLOW ROAD	1986	Yes	No	No		
21	WINSLOW ROAD	1985	Yes	No	No		
6	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
14	WOODBINE CIRCLE	1988	Yes	No	No		NOT VISIBLE
20	WOODBINE CIRCLE	1988	Yes	No	No		
21	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
28	WOODBINE CIRCLE	1988	Yes	No	No		
33	WOODBINE CIRCLE	1988	No				
34	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
39	WOODBINE CIRCLE	1988	Yes	No	Yes		
42	WOODBINE CIRCLE	1988	No				
50	WOODBINE CIRCLE	1987	Yes	No	No		
58	WOODBINE CIRCLE	1988	Yes	No	No		FLOOR LEVEL
63	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
64	WOODBINE CIRCLE	1988	Yes	No	No		
70	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
76	WOODBINE CIRCLE	1988	No				
88	WOODBINE CIRCLE	1987	Yes	No	No		
89	WOODBINE CIRCLE	1988	Yes	No	No		FLOOR LEVEL
94	WOODBINE CIRCLE	1988	No				
100	WOODBINE CIRCLE	1988	Yes	No			
105	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
106	WOODBINE CIRCLE	1988	Yes	No	No		
112	WOODBINE CIRCLE	1988	Yes	No	No		NOT VISIBLE
116	WOODBINE CIRCLE	1987	Yes	No	No		
119	WOODBINE CIRCLE	1987	Yes	No	No		
124	WOODBINE CIRCLE	1988	No				
125	WOODBINE CIRCLE	1987	Yes	No	No		
130	WOODBINE CIRCLE	1988	Yes	No	No		
131	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
136	WOODBINE CIRCLE	1988	Yes	No	No		
139	WOODBINE CIRCLE	1988	Yes	No	No		
142	WOODBINE CIRCLE	1988	Yes	No	No		FLOOR LEVEL
145	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
150	WOODBINE CIRCLE	1988	Yes	No	No		FLOOR LEVEL
151	WOODBINE CIRCLE	1987	Yes	No	No		
156	WOODBINE CIRCLE	1988	No		1		
157	WOODBINE CIRCLE	1988	Yes	Yes	Yes	GROUND	SUMP PUMP
162	WOODBINE CIRCLE	1987	Yes	No	No		CAP HIDDEN
163	WOODBINE CIRCLE	1987	No				2



165	WOODBINE CIRCLE	1988	No	?	?	Ş	RIGHT ADDRESS?
7	WOODBURY DRIVE	1986	Yes	No	No		CLEANOUT CAP OFF
10	WOODBURY DRIVE	1986	Yes	No	No		CLEANOUT IN GARAGE
11	WOODBURY DRIVE	1988	Yes	No	Yes	GROUND	
16	WOODBURY DRIVE	1988	Yes	Yes	Yes	SINK	CLEANOUT NOT VISIBLE
21	WOODBURY DRIVE	1986	Yes	No	No		
24	WOODBURY DRIVE	1988	Yes	No	No		FLOOR LEVEL BELOW WASHER
27	WOODBURY DRIVE	1986	Yes	No	No		
5	WOODLAWN AVE	1988	Yes	No	No		
10	WOODLAWN AVE	1988	Yes	No	No		
11	WOODLAWN AVE	1986	Yes	No	No		
18	WOODLAWN AVE	1988	Yes	No	No		
22	WOODLAWN AVE	1986	Yes	No	No		
31	WOODLAWN AVE	1988	No				
36	WOODLAWN AVE	1988	No				
37	WOODLAWN AVE	1986	Yes	No	No		
42	WOODLAWN AVE	1988	Yes	No	No		CLEANOUT BELOW FLOOR
45	WOODLAWN AVE	1988	Yes	No	No		CLEANOUT UNDER FLOOR
48	WOODLAWN AVE	1986	Yes	No	No		
54	WOODLAWN AVE	1986	Yes	No	No		
60	WOODLAWN AVE	1986	Yes	No	No		
61	WOODLAWN AVE	1986	Yes	No	No		
66	WOODLAWN AVE	1988	No				
67	WOODLAWN AVE	1988	No				
72	WOODLAWN AVE	1986	Yes	No	No		
73	WOODLAWN AVE	1988	No				
79	WOODLAWN AVE	1986	Yes	No	No		
80	WOODLAWN AVE	1988	Yes	No	No		
7	WOODLEDGE ROAD	1989	Yes	No	No		NO BASEMENT, CAP IN BEDROOM ON WALL
15	WOODLEDGE ROAD	1988	Yes	No	No		CLEANOUT IN OUTSIDE YARD, 18" MANHOLE
16	WOODLEDGE ROAD	1989	Yes	No	No		NO BASEMENT, CLEANOUT IN CLOSET BELOW FLOOR
29	WOODLEDGE ROAD	1988	Yes	No	Yes	GROUND	
30	WOODLEDGE ROAD	1988	Yes	No	No		
34	WOODLEDGE ROAD	1988	Yes	No	No		
35	WOODLEDGE ROAD	1989	No				
41	WOODLEDGE ROAD	1988	No				
42	WOODLEDGE ROAD	1986	Yes	No	No		
50	WOODLEDGE ROAD	1988	Yes	No	No		
51	WOODLEDGE ROAD	1988	Yes	No	No		
56	WOODLEDGE ROAD	1989	Yes	No	No		



57	WOODLEDGE ROAD	1988	Vos	No	No		
63	WOODLEDGE ROAD		Yes	No No	No		
		1986	Yes	No	No		
68	WOODLEDGE ROAD	1988	Yes	No	No		
69	WOODLEDGE ROAD	1986	Yes	No	No		
76	WOODLEDGE ROAD	1989	No	NI.	N1 -		
77	WOODLEDGE ROAD	1988	Yes	No	No	001115071011	NOT VICIDIE
82	WOODLEDGE ROAD	1988	Yes	No	No	CONNECTION	NOT VISIBLE
83	WOODLEDGE ROAD	1988	Yes	No	No		
93	WOODLEDGE ROAD	1989	Yes	Yes	Yes	GROUND	
95	WOODLEDGE ROAD	1989	Yes	No	No		
102	WOODLEDGE ROAD	1988	No				
103	WOODLEDGE ROAD	1988	Yes	No	No		
11	WYOMING AVE	1986	Yes	No	No		
13	WYOMING AVE	1988	Yes	No	No		
16	WYOMING AVE	1988	Yes	No	No		CLEANOUT ABOVE FLOOR
21	WYOMING AVE	1988	Yes	No	No		
22	WYOMING AVE	1988	Yes	No	No		
28	WYOMING AVE	1988	Yes	No	No		
82	WYOMING AVE	1988	?	?	?	?	RIGHT ADDRESS?
90	WYOMING AVE	1986	Yes	No	No		
96	WYOMING AVE	1986	Yes	No	No		
102	WYOMING AVE	1986	Yes	No	No		
120	WYOMING AVE	1986	Yes	No	No		
126	WYOMING AVE	1988	Yes	No	No		
12	YALE ROAD	1988	Yes	No	No		
15	YALE ROAD	1988	Yes	No	No		
16	YALE ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE
22	YALE ROAD	1988	Yes	No	No		
23	YALE ROAD	1988	Yes	No	No		CLEANOUT BURIED UNDER FLOOR
29	YALE ROAD	1988	Yes	No	No		
30	YALE ROAD	1986	Yes	No	No		
36	YALE ROAD	1988	No				
37	YALE ROAD	1988	No				
43	YALE ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE
44	YALE ROAD	1988	Yes	No	No		NOT VISIBLE
53	YALE ROAD	1988	Yes	No	No		CLEANOUT NOT VISIBLE
54	YALE ROAD	1988	Yes	No	No		CLEANOUT IN GARAGE
59	YALE ROAD	1986	Yes	No	No		
65	YALE ROAD	1986	Yes	No	No		CLEANOUT IN GARAGE
66	YALE ROAD	1986	Yes	No	No		312, 3 3, 102
3	YURICK ROAD	2008	Yes	1,0	110		HOME ON SLAB
4	YURICK ROAD	2008	Yes				HOME ON SLAB
10	YURICK ROAD	2008	Yes				HOME ON SLAB
10	TORICK ROAD	2000	163				HOWE ON SEAD



11	YURICK ROAD	2008	Yes			HOME ON SLAB
17	YURICK ROAD	2008	Yes			HOME ON SLAB
18	YURICK ROAD	2008	Yes			HOME ON SLAB
24	YURICK ROAD	2008	Yes			HOME ON SLAB
25	YURICK ROAD	2008	Yes			HOME ON SLAB
30	YURICK ROAD	2008	Yes			HOME ON SLAB
33	YURICK ROAD	2008	Yes			HOME ON SLAB
36	YURICK ROAD	2008	Yes			HOME ON SLAB
40	YURICK ROAD	2008	Yes			HOME ON SLAB
43	YURICK ROAD	2008	Yes			HOME ON SLAB
46	YURICK ROAD	2008	Yes			HOME ON SLAB
50	YURICK ROAD	2008	Yes			HOME ON SLAB
51	YURICK ROAD	2008	Yes			HOME ON SLAB
56	YURICK ROAD	2008	Yes			HOME ON SLAB
59	YURICK ROAD	2008	Yes			HOME ON SLAB
62	YURICK ROAD	2008	Yes			HOME ON SLAB

Appendix I Meter Cut Sheets

Isco 2103 Modem Module

The 2103 Modem Module eliminates the need for frequent site visits and confined space entry, by automating remote retrieval of data in sewer flow studies. The 2103 provides reliable, two-way communication between down-hole 2100 Series Flow Modules and a base computer running Flowlink® Software.

Improved efficiency for I & I studies, cMOM, SSO, CSO

The 2103 stacks together with one or more of Isco's advanced 2100 Series flow modules to form a complete, integrated system for acquiring and communicating open channel flow data.

The 2103 offers:

- reliable data retrieval from the comfort and convenience of your office.
- interrogation of instruments with Isco Flowlink software.
- the ability to remotely set any of the monitoring parameters, such as data interval, for each site.
- "scheduling" with Flowlink Software, to dial and download from your entire monitoring network while you are away. Data will be graphed and ready to review at your desk when you return.
- enhanced error correction protocols to compensate for noisy lines.
- up to 33.6 kbps communication to cut download times to one tenth what you'd spend with a typical 2.4 kbps equipment modem.
- rugged, NEMA 4X, 6P (IP68) case and moisture-tight connections.
- automatic dial-out alarm for level.

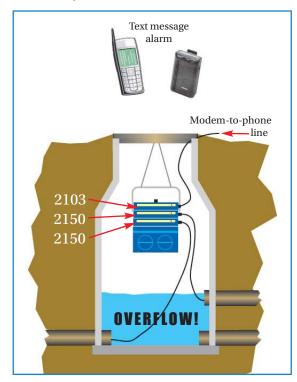


Pushed-data capability

The 2103 can automatically send data at userspecified intervals to a designated server running Isco Flowlink Pro software. An Oracle® or Microsoft® SQL database on your server is required to use this feature. Contact the factory for additional information.

Long battery life

The 2103 has very low power consumption, allowing typical 290-day battery life using two 6-volt alkaline batteries – or up to 580 days with two battery modules.



The 2103 Modem dial-out feature enables the system to transmit a text message alarm to your digital cell phone or pager. In this typical example, an alarm is triggered when an overflow occurs.

Specifications

2103 Modem Module		
Size (H x W x D)	2.9 x 10.5 x 7.5 in. (7.4 x 26.7 x 19.1 cm)	
Weight	2.0 lbs. (0.9 kg)	
Enclosure (self-certified)	NEMA 4X, 6P (IP68)	
Material	High-impact polystyrene	
Modulation standards	Bell 103, Bell 212, V.21, V22, V.22bis, V.23, V.32, V.32bis, V.34	
Error correction standards	V.42 LAPM, MNP-2, MNP-4, MNP-10	
Communication speeds	0.3, 1.2, 2.4, 4.8, 7.2, 9.6, 12.0, 14.4, 16.8, 19.2, 21.6, 24.0, 26.4, 28.8, 31.2, 33.6 kbps	
Data compression standards	V.42 bis, MNP-5	
Power	9.0 to 16.6V DC	
	0.41 mA standby, 141 mA typical	
Typical Battery Life*	290 days (with 2 alkaline batteries)	
Operating temperature	-4° to 140°F (-20° to 60°C)	
Storage temperature	-40° to 140°F (-40° to 60°C)	
Setup and data retrieval	Via PC or compatible computer with Isco Flowlink® Software	
2191 Battery Module		
Size (H x W x D)	6.0 x 9.6 x 7.6 in. (15.2 x 24.4 x 19.3 cm)	
Weight (w/o batteries)	3.2 lbs. (1.4 kg)	
Enclosure (self-certified)	NEMA 4X, 6P (IP68)	
Material	High-impact polystyrene	
Batteries	Two 6V alkaline lantern or lead-acid lantern	
Alkaline	25 Ahr capacity	
Lead-Acid	5 Ahr capacity	

^{*} Battery life with: one 2150 Module and one 2103 Module using a 2191 battery module with two 6-volt alkalines — 15-minute data intervals, one interrogation per week.



2100 Series modems are set up using Isco Flowlink[®] Data Management Software

Ordering Information

Description	Part Number
2103 Modem Module	68-2000-007
Wall mount/AC power kit Includes stainless steel mounting bracket, 913 Power Pack (120VAC to 12VDC), and adapter cable to connect 913 to 2100 modules	60-5314-359
2103 Modem-to-phone-line cable 12 ft cable with RJ11C connector	60-3214-020
2103 Modem-to-phone-line cable - H.D. Cut-to-length cable with RJ11C connector. Specify desired length (not exceeding 100 feet) at time of order.	60-5314-411
Isco Flowlink Software	68-2540-200
Isco Flowlink Pro Software	68-2540-270



Photo above shows a typical flow module grouping that includes Isco's 2101 Field Wizard^{TM}, a 2103 Modem Module, a 2150 Area Velocity Module, and a 2191 Battery Module.

Many other variations are possible. Request a copy of our 2100 Series Flow Module Brochure for complete information.



Teledyne Isco, Inc.

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Isco 2150 Area Velocity Flow Module

The 2150 Flow Module uses continuous wave Doppler technology to measure mean velocity. The sensor transmits a continuous ultrasonic wave, then measures the frequency shift of returned echoes reflected by air bubbles or particles in the flow.

The 2150's "smart" area velocity probe is built on digital electronics, so the analog level is digitized in the sensor itself to overcome electromagnetic interference. The probe is also factory-calibrated for 10-foot (3 meter) span at different temperatures. This built-in calibration eliminates drift in the level signal, providing long-term level stability that reduces recalibration frequency and completely eliminates span recalibration.

In field use, the 2150 is typically powered either by two alkaline, or Isco Rechargeable Lead-acid batteries, within a 2191 Battery Module. Highly efficient power management extends battery life up to 15 months at 15-minute data storage intervals. Other power options (including solar) are available.

Applications

- Portable and permanent-site AV flow monitoring for inflow and infiltration, capacity assessment, sewer overflow, and other sewer studies.
- Measuring shallow flows in small pipes. Our low-profile area velocity sensor minimizes flow stream obstruction and senses velocity in flows down to 1 inch (25 mm) in depth.





Standard Features

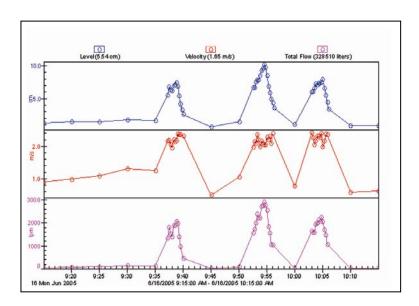
- ◆ Rugged, submersible enclosure meets NEMA 4X, 6P (IP68) environmental specs.
- Chemically resistant epoxy-encapsulated sensor withstands abuse, resists oil and grease fouling, and eliminates the need for frequent cleaning.
- Replaceable high-capacity internal desiccant cartridge and hydrophobic filter protect sensor reference from water entry and internal moisture.
- Pressure transducer vent system automatically compensates for atmospheric pressure changes to maintain accuracy.
- The quick-connect sensor can be easily removed and interchanged in the field without requiring recalibration.
- Up to four 2100 Series flow modules can be networked by stacking and/or extension cables.



Above left: Additional modules can be added for redundant or multi-stream measuring (Isco 2110 Ultrasonic Module shown). Right: Optional mounting rings provide quick, secure sensor installation in round pipes from 6 to 80 inches (150 to 2000 mm).

Software Features

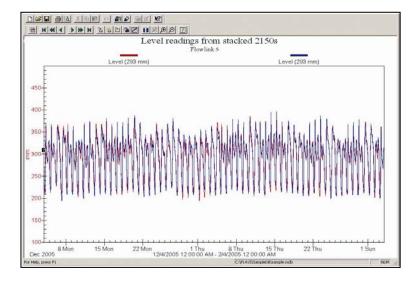
- Secure data storage. All data are continuously stored in flash memory to protect against loss in case of power failure
- Easy to upgrade. New operating software can be downloaded into non-volatile flash memory, without affecting stored program and data.
- Records and stores input voltage and temperature data.
- Variable rate data storage lets you change the data storage interval when programmed conditions occur. This feature assures maximum information about an exceptional event such as an overflow while conserving power and data capacity during normal conditions.
- 38,400 bps communication provides speedy setup and data retrieval.



Variable rate data storage

The 2150 flow module has the ability to automatically switch data storage rates based on varying conditions.

In the example at left, the 5-minute data storage rate automatically changed to 30 seconds when the flow rose above a programmed level.



Level stability

Frequent multipoint level recalibration is a requirement with other area velocity flow meters. Isco's exclusive "smart" sensor design in the area velocity probe yields exceptionally low drift in the level signal.

The 2150's factory-calibrated 3-meter span totally eliminates the need for cumbersome span recalibration in the field.

In the example at left, two area velocity probes were installed at the same site. The level readings from both sensors track closely without any drift, over an 8-week period.

Flowlink® Data Analysis

Isco Flowlink® Software is a powerful tool for analyzing flow and water quality data. It provides site setup, data retrieval, and comprehensive data analysis, as well as advanced reporting and graphing. See separate datasheets for details on Flowlink and Flowlink Pro software.



Information Delivery

Isco 2100 Series Flow Modules offer a wide variety of communication and retrieval options, to minimize the need for expensive on-site visits and confined space entry. These include:

Isco 2103 Land-line Modem Module

Reliable two-way dial-up communication between down-hole 2100 Flow Modules and your desktop computer, equipped with Isco Flowlink Software. A dial-out feature enables the system to transmit a text message alarm to your digital cell phone or pager.

Isco 2103c Cellular Modem Module

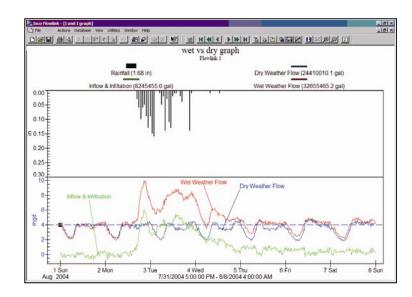
All the features of the 2103 Modem with the convenience of cell phone access. And the 2103c can automatically send data via the Internet to a designated server running Flowlink Pro software, using economical 1xRTT packet-switched data transmission.

Isco 2108 Analog Output Module

Provides current outputs for use with Isco 2100 Series Area Velocity and Ultrasonic Flow Modules. It allows easy interface with SCADA/DCS or other secondary instrument systems.

Modbus

2100 Series Flow Modules provide digital RS 232 Modbus output that can be used to interface with external communication modules, SCADA systems, or other devices.



The Flowlink screen shown above gives a comparison of dry and wet weather flows, plus rainfall typical of an inflow & infiltration study

On-site Data Retrieval

Isco Flowlink Software

Download and process data on-site. Enjoy unmatched data management capability, advanced data editing and analysis, powerful reporting and presentation choices, and a variety of downloading and data handling options.

Isco 2101 Field Wizard

A durable, weatherproof module for on-site data retrieval. Don't risk damage to your fragile notebook PC. The 2101 Field Wizard provides on-site display of current readings, information about stored data, diagnostics, and more.

Interrogate all 2100 Series Flow Modules in the stack at one time, and store more than 14 days' data from up to 20 modules!

Isco 2102 Communication Module

Connect with your Isco 2100 Series Flow Modules from the safety and convenience of your vehicle.

Digital spread-spectrum radio signals enable "driveup" data retrieval, system configuration, and level calibration, with minimum power consumption. "Plug and Play" setup – no interfacing needed.

Specifications

Specifications		
2150 Flow Mod	lule	
Size (HxWxD):	2.9 x 11.3 x 7.5 in (74 x 287 x 191 mm)	
Weight:	2.0 lb (0.9 kg)	
Materials of construction:	, 0,	
Enclosure (self-certified):	NEMA 4X, 6P (IP68)	
Temperature Range:	-40° to 140° F (-40° to 60° C) operating and storage	
Power Required:	12 VDC nominal (7.0 to 16.6 VDC), 100 mA typical, 1 mA standby	
Power Source:	Typically, an Isco 2191 Battery Module, containing 2 alkaline or 2 rechargeable lead-acid batteries. (Other power options are available; ask for details.)	
Typical Battery Life:	Using 15-minute data storage interval Energizer® Model 529 alkaline - 15 months Isco rechargeable lead-acid - 2.5 months	
Program Memory:	Non-volatile programmable flash; can be updated using PC without opening enclosure; retains user program after updating.	
E	Built-in Conversions	
Flow Rate Conversions:	Up to 2 independent level-to-area conversions and/or level-to-flow rate conversions.	
Level-to-Area Conversions:	Channel Shapes - round, U-shaped, rectangular, trapezoidal, elliptical, with silt correction; Data Points - Up to 50 level-area points.	
Level-to-Flow Conversions:	Most common weirs and flumes; Manning Formula; Data Points (up to 50 level-flow points); 2-term polynomial equation	
Total Flow Calculations:	Up to 2 independent, net, positive or negative, based on either flow rate conversion	
Data Hai	ndling and Communications	
Data Storage:	Non-volatile flash; retains stored data during program updates. Capacity 395,000 bytes (up to 79,000 readings, equal to over 270 days of level and velocity readings at 15-minute intervals, plus total flow and input voltage readings at 24-hour intervals)	
Data Types:	Level, velocity, flow rate 1, flow rate 2, total flow 1, total flow 2, input voltage, temperature	
Storage Mode:	Rollover; 5 bytes per reading.	
Storage Interval:	15 or 30 seconds; 1, 2, 5, 15, or 30 minutes; or 1, 2, 4, 12, or 24 hours	
	Storage rate variable based on level, velocity, flow rate, total flow, or input voltage	
Data Retrieval:	Serial connection to PC or optional 2101 Field Wizard module; optional modules for spread spectrum radio; land-line or cellular modem; 1xRTT. Modbus and 4-20 mA analog available.	
Software:	Isco Flowlink for setup, data retrieval, editing, analysis, and reporting	
Multi-module networking:	Up to four 2100 Series Flow Modules, stacked and/or remotely connected. Max distance between modules 3300 ft (1000 m).	
Serial Communication Speed:	38,400 bps	

ISCO ®
Water is life. Protect it.

Teledyne Isco, Inc.

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E-Mail: iscoinfo@teledyne.com Internet: www.isco.com

2150 Area Velocity Sensor		
Size (HxWxD):	0.75 x 1.3 x 6.0 in (19 x 33 x 152 mm)	
Cable (Length x Diameter):	25 ft x 0.37 in (7.6 m x 9 mm) standard. Custom lengths available on request.	
Weight (including cable):	2.2 lbs (1 kg)	
Materials of construction:	Sensor - Epoxy, chlorinated polyvinyl chloride (CPVC), stainless steel Cable - Polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC)	
Operating Temperature:	32° to 140° F (0° to 60° C)	
Level Measurement: Velocity Measurement:	Method - Submerged pressure transducer mounted in the flow stream Transducer Type - Differential linear integrated circuit pressure transducer Range (standard) 0.033 to 10 ft (0.010 to 3.05 m); (optional) up to 30 ft (9.15 m). Maximum Allowable Level 34 ft (10.5 m) Accuracy ±0.01 ft from 0.033 to 10 ft, (±0.003 m from 0.01 to 3.05 m,) Long-Term Stability ±0.023 ft/yr (±0.007 m/yr) Compensated Range 32° to 122°F (0° to 50°C) Method - Doppler ultrasonic, frequency 500 kHz Typical Minimum Depth 0.08 ft (25 mm) Range -5 to +20 ft/s (-1.5 to +6.1 m/s) Accuracy (in water with uniform velocity profile, speed of sound = 4850 ft/s, for indicated velocity range) ±0.1 ft/s from -5 to 5 ft/s (±0.03 m/s from	
	-1.5 to +1.5 m/s)	
Tamananatuma Manasumana	±2% of reading from 5 to 20 ft/s (1.5 to 6.1 m/s)	
Temperature Measurement:	Accuracy ±3.6° F (±2° C)	
2191 Battery M	odule	
Size (HxWxD):	6.0 x 9.6 x 7.6 in (152 x 244 x 193 mm)	
Weight (without batteries):	3.2 lb (1.4 kg)	
Materials of construction:	High-impact polystyrene, stainless steel	
Enclosure (self certified):	NEMA 4X, 6P, (IP68)	
Batteries:	Two 6-volt Energizer Model 529* alkaline (25 Ahrs capacity) or Isco Rechargeable Lead-acid (5 Ahrs capacity) recommended.	

2150 Ordering Information

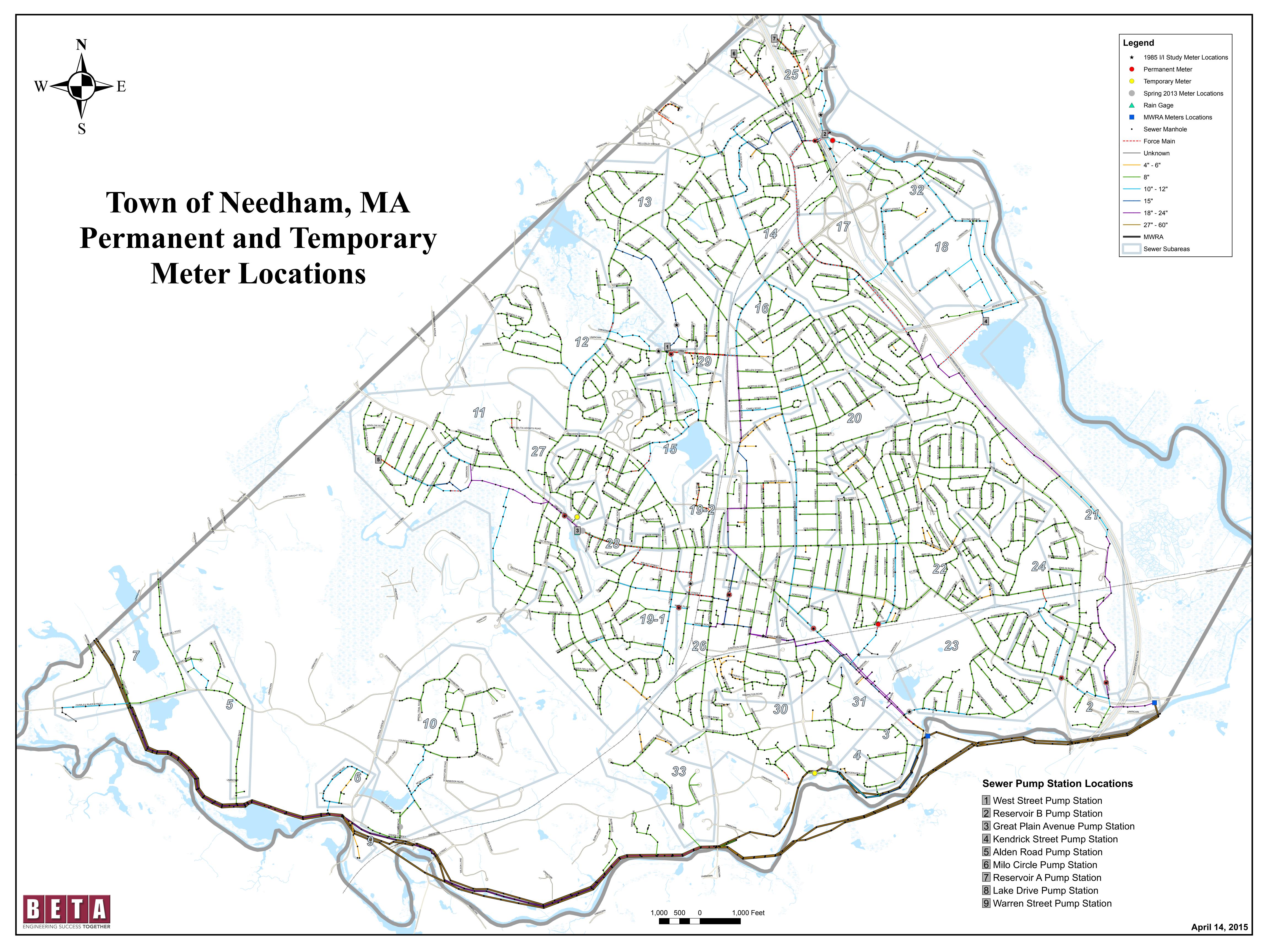
Contact your Teledyne Isco representative for complete ordering details and information on other 2100 Series Modules.

*Note - Energizer 529 ER does not give specified life.

Description	Part No.
2150 with AV sensor, 2191 Battery Module, and Handle	68-2050-002
2150 Module with AV sensor (only)	68-2050-001
Isco Flowlink® 5 Software	68-2540-200
Energizer® Model 529 Alkaline Lantern Battery (2 required)	340-2006-02
Isco Rechargeable Lead-acid Battery (2 required)	60-2004-041
Charger for Lead-acid Batteries (holds 2 batteries)	60-2004-040



Appendix J Final Meter Locations Map



Appendix K Final Meter Installation



69 Wildwood Drive, Needham, MA





Street View

Top View





Upstream

Downstream

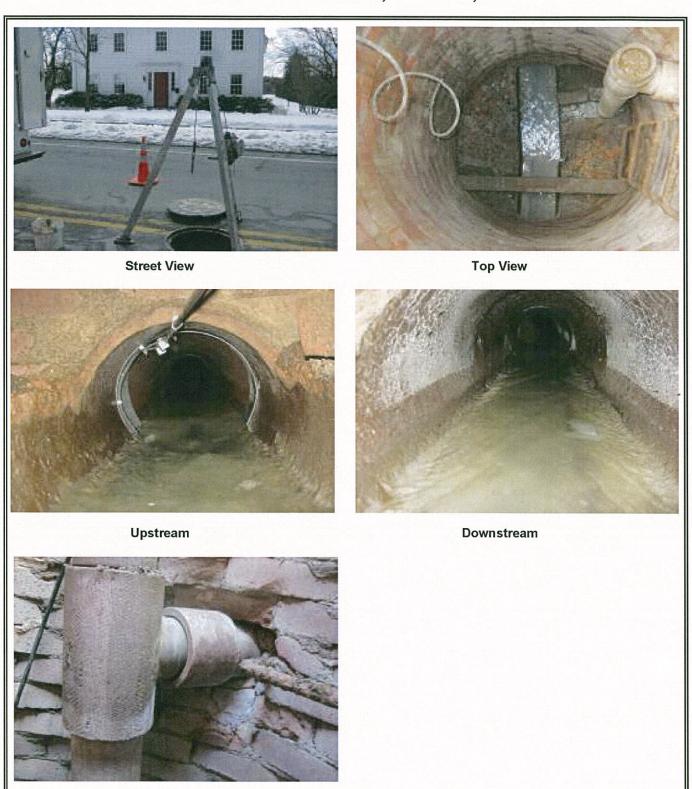


Project: ESTAM	Technician: EST
1103000	recinician, 1991

SITE LOCATION				
		n: 69 W	Howar	DZ
	МН# 🧧	30		•
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Map#			
	Date: 3	3.18.13		
	Time:	138		٠.
	Regula	tor#		
PLAN VIEW	LINE D	ESCRIPTI	ONS	
		Incoming	Outgoing	Overflow
	Size	5"	5	
	Material	CAST	CAST	
	Debris			
	Shape	FOUND	till	
	Depth	47	1	
PROFILE VIEW	WEIR	FLUME		
	Length			
	Width			
	Level		Yes	No
\$ to 1	Height A	bove Weir		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Overflow	Occurs @	1	-



146 Great Plain Avenue, Needham, MA



Service 1

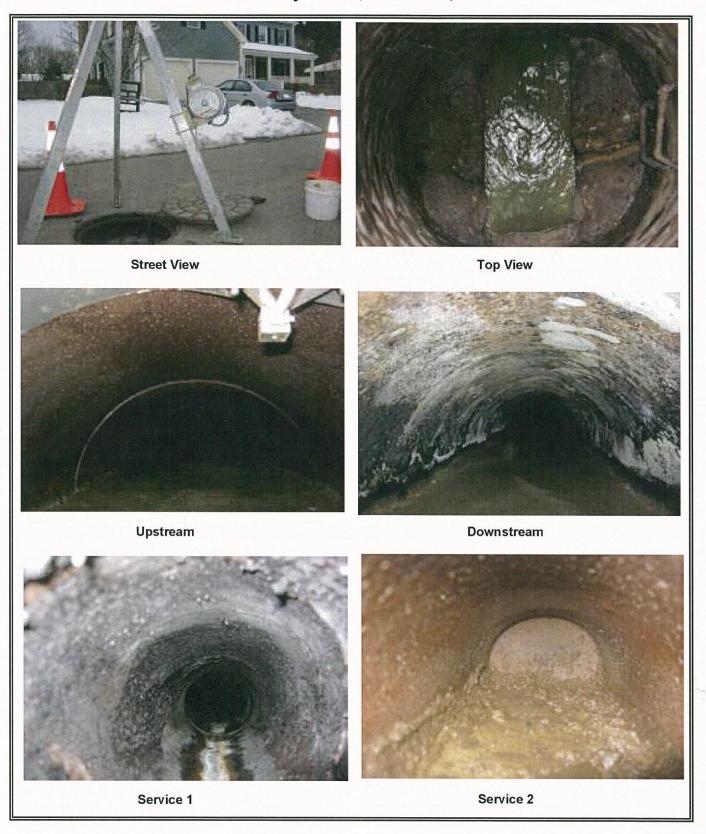


Project: Negdha.	Technician: MR/TE/TU/S	100
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SITE LOCATION	
	Location: 146 Greet Plain Ave MH#
	MH# Noodham 24
	Map #
	Date: 3-20-13
146 Of Great Plain Arc	Time: 13.00
A ic.	Regulator#
PLAN VIEW	LINE DESCRIPTIONS
Sensor	Incoming Outgoing Overflow 12 12 12 1 Size In VIP VIP Oranghus Debris Round Round Point Depth 8'10" 8'11" 4'7"
PROFILE VIEW	WEIR/FLUME
Sensor	Length Width Yes No Level Height Above Weir Overflow Occurs @



215 Valley Street, Needham, MA





Project: NEEDHAM Technician: MK JK TH GE

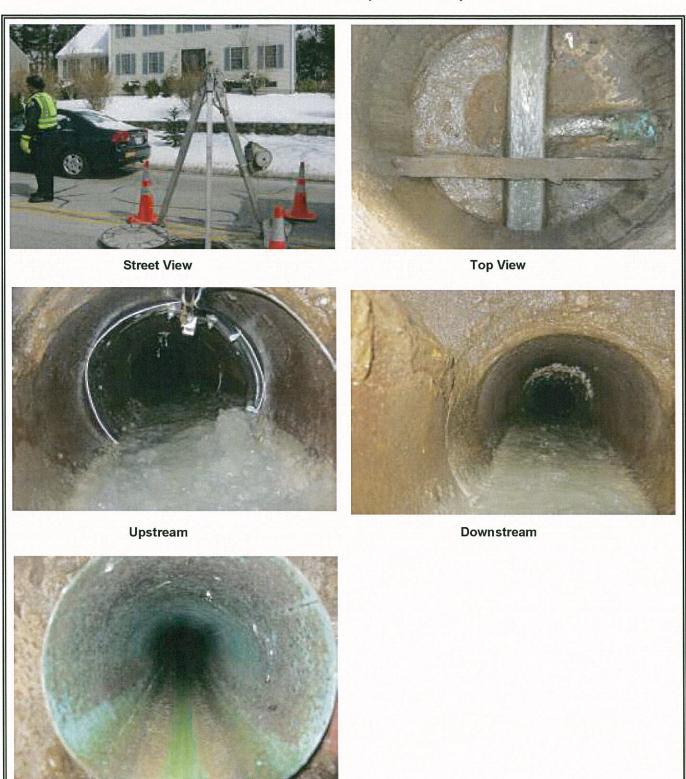
CTTE LOCATION			
SITE LOCATION			
H32 215. H3c	Location: 215 VALLEY Rd		
209	MH# NEEDHAM 21		
	Мар#		
JALLEY Rd.	Date: 3-21-13		
HSC.	Time: 09:35.		
208 humananan	Regulator#		
PLAN VIEW	LINE DESCRIPTIONS		
	Incoming Outgoing Overflow Incoming Substitute S-1 S-2 Size 22" 22" 6" 6"		
Sensor	Material CAST CAST CAST CAST		
	Debris // //		
	Shape CIR. CIR. CIR. CIR.		
	Depth 8'4" 8'5" 78 7'0" CAPPEC		
PROFILE VIEW	WEIR/FLUME		
/	Length		
	Width		
TW (T.)	Yes No Level		
A A	Height Above Weir		
Szwiar ()	Overflow Occurs @		

51 Fremont Street Needham MA, 02494 tel: 781-455-0003 fax: 781-455-8336

(ell # 781-898-5524



266 Dedham Avenue, Needham, MA



Service 1



Project: NEEDHAW Technician: MK JCTH 6E

SITE LOCATION	
DEOHAM AUC.	Location: 266 DEDHAM Ave
	MH# NEEDHAM 20
	Map #
	Date: 3/20/13
	Time: /2:00
	Regulator#
PLAN VIEW	LINE DESCRIPTIONS
* - sensor	Incoming Outgoing Overflow Incoming Size 10" 10" 6"
	Material VCP VCP PVC Debris
	Shape CIR, CIR. CIR. Depth 7'5" 7'6" 6'8"
PROFILE VIEW	WEIR/FLUME
A SENSOR.	Length Width Yes No Level Height Above Weir Overflow Occurs @



292 Reservoir Street, Needham, MA





Street View Top View

No picture available - pipe was surcharged

No picture available - pipe was surcharged

Upstream

Downstream



Technician: MR/TI/TH/1-E Project: Needhan

SITE LOCATION	
	Location: 292 Reservance St.
	MH# Noedham 32
	Map #
Reserved to the second	Date: 3-21-12
Pessenair St.	Time: 1207
	Regulator#
PLAN VIEW LINE DESCRIPTIONS	
	Size Incoming Outgoing Overflow
	Material Lined Lined Debris
Sensor.	Shape Round Round
	Depth 7'7'' 7'2''
PROFILE VIEW	WEIR/FLUME
	Length
	Width
	Level Yes No
	Height Above Weir
Sensor	Overflow Occurs @

51 Fremont Street Needham MA, 02494 tel: 781-455-0003 fax: 781-455-8336 (el) # 781 -898 - 5519



1394 Great Plain Ave, Needham, MA



Street View



Top View



Upstream



Downstream



Project: Needloom Technician: NR 17 H / JL

SITE LOCATION	12 - 4 - 5	
1394 Alon An	Beta Engineering Location: 1394 Great Plan Ave	
	MH# Needlan 11	
	Map #	
	Date: 3-∂0-13	
	Time: 0945	
	Regulator#	
PLAN VIEW	LINE DESCRIPTIONS	
5-1501	Incoming Outgoing Overflow	
	Size <u>18" 18"</u>	
	Material VCP VCP	
	Debris	
	Shape Frank Abrod	
	Depth <u>8'3" 8'4"</u>	
PROFILE VIEW	WEIR/FLUME	
	Length	
	Width	
Agreement of the second of the	Yes No Level	
$ \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	Height Above Weir	
Sensor	Overflow Occurs @	



Abbott Street, Needham, MA



Street View



Top View



Upstream



Downstream

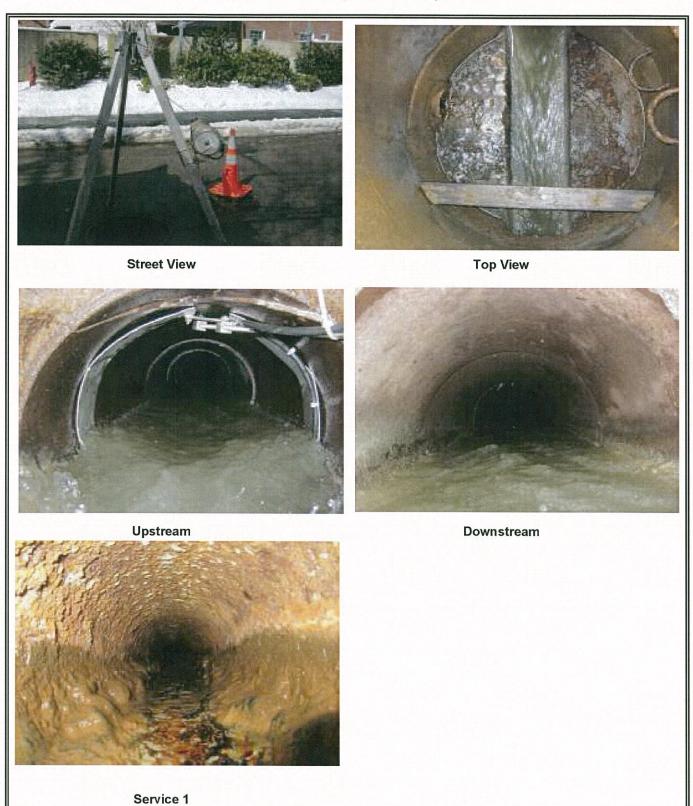


Project: Needham Technician: Ne / TE / TE / GE

SITE LOCATION		
	Location:	
1	MH# Needhan 27	
2 0 2	Map #	
	Date: 3-21-13	
	Time: 0820	
	Regulator#	
PLAN VIEW	LINE DESCRIPTIONS	
	Incoming Outgoing Overflow	
	Size 9" 2"	
	Material VLP VIP	
	Debris	
Sensor	Shape Royal Royal	
	Depth 8'L" 8'9"	
PROFILE VIEW	WEIR/FLUME	
	Length	
	Width	
	Level Yes No	
$) \longrightarrow)) $	Height Above Weir	
Someon	Overflow Occurs @	
1971507		



Lincoln Street, Needham, MA





Project: <u>NEEDHAM</u> Technician: MX JC TH GE

SITE LOCATION		
Hospitale Liucolu st	Location: 92 Lincoln st	
	MH# NEEDHAM 16	
	Map #	
	Date: 3/20/13.	
	Time: //:30	
	Regulator#	
PLAN VIEW	LINE DESCRIPTIONS	
# - Seusor	Incoming Outgoing Overflow Talesmok	
	Size	
	Material VCP VCP. VCP	
	Debris	
	Shape CIR CIR. CIR	
	Depth 7'2" 7'3" 6'6"	
PROFILE VIEW	WEIR/FLUME	
	Length 7	
	Width	
	Level Yes No	
Ta)	Height Above Weir	
SEDSOR. U	Overflow Occurs @	



Maple Place, Needham, MA



Street View



Top View



Upstream



Downstream



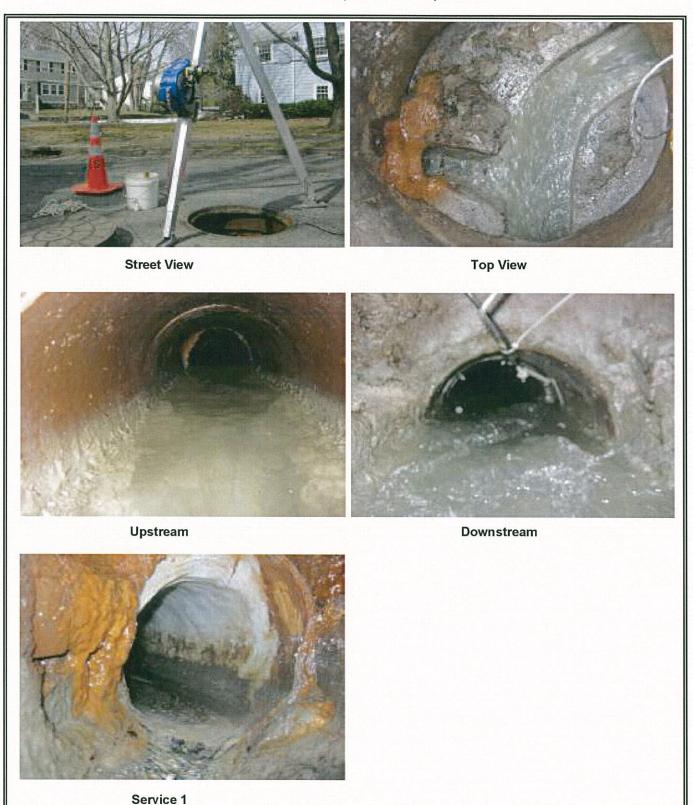
51 Fremont Street Needham MA, 02494 tel: 781-455-0003 fax: 781-455-8336

SITE INVESTIGATION

MK JCTH GE SITE LOCATION Project: NEEDHAM Location: 14 MAPLE PLACE HSE MH# NEEDHAM 19-1 Map# 3-21-13 MAPIE PIACE Time: Hse. 10:50 13 Regulator# **PLAN VIEW** LINE DESCRIPTIONS Incoming Outgoing Overflow 12" 12" Material PVC P/C SENSOR CIR CIR Shape 8'9" 8'10" **PROFILE VIEW** WEIR/FLUME Length Width Level Yes/No Height Above Weir Overflow Occurs @ (ell #781-898-5526



Prince & Cook, Needham, MA



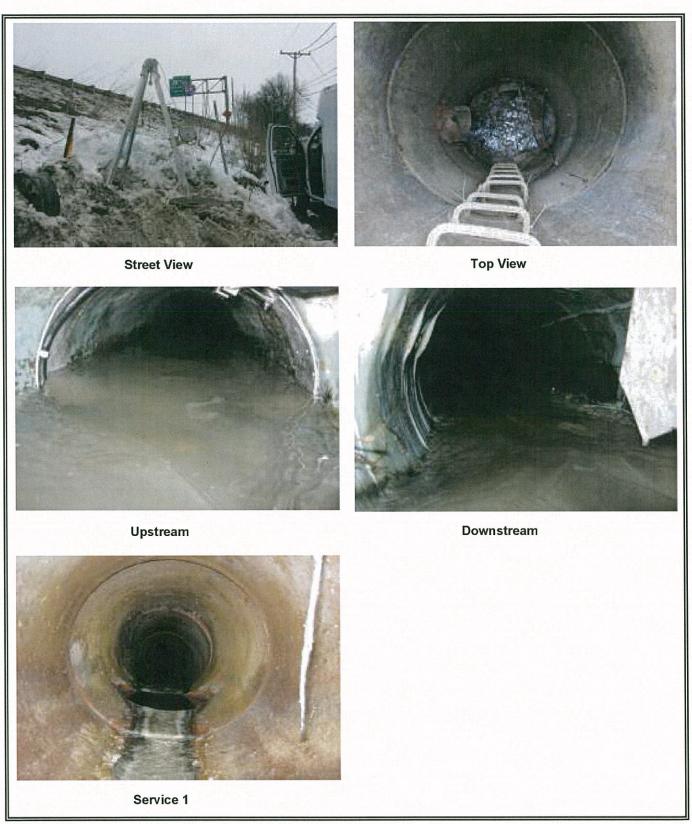


Project:	KERSIAM MA	Technician: E-
	The state of the s	

SITE LOCATION	
SITE LOCATION	
	Location: PRINCE SE
	MH# NEEDHAM 22
153 1 154	Map #
	Date: 3:18:13
	Time: 14:25
	Regulator#
PLAN VIEW LINE DESCRIPTIONS	
	Incoming Outgoing Overflow
	Size "12" 12" 12"
	Material VP VP
	Debris / /
1	Shape Light Light Light
*s	Depth <u>5'9"</u> 5'10" 5'4"
PROFILE VIEW	WEIR/FLUME
	Length NA
	Width NA
	Yes No Level
	Height Above Weir
L /	Overflow Occurs @ NA



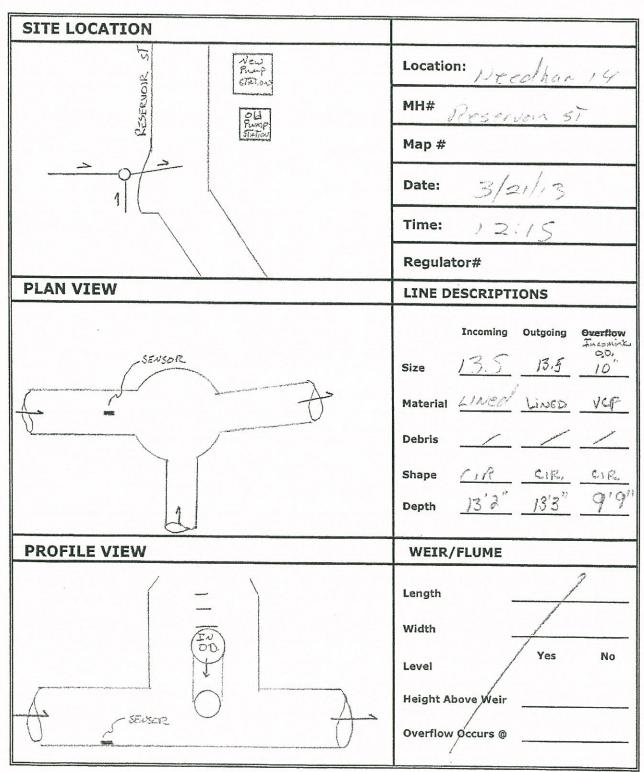
Reservoir Street Station B, Needham, MA





Project: NEEDHAM	Technician:	MK. TH	SE JC
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*Meter relocated 1/15/15



51 Fremont Street Needham MA, 02494 tel: 781-455-0003 fax: 781-455-8336

1011 # 781-890-5000



West Street Pump Station, Needham, MA





Street View

Top View





Upstream

Downstream



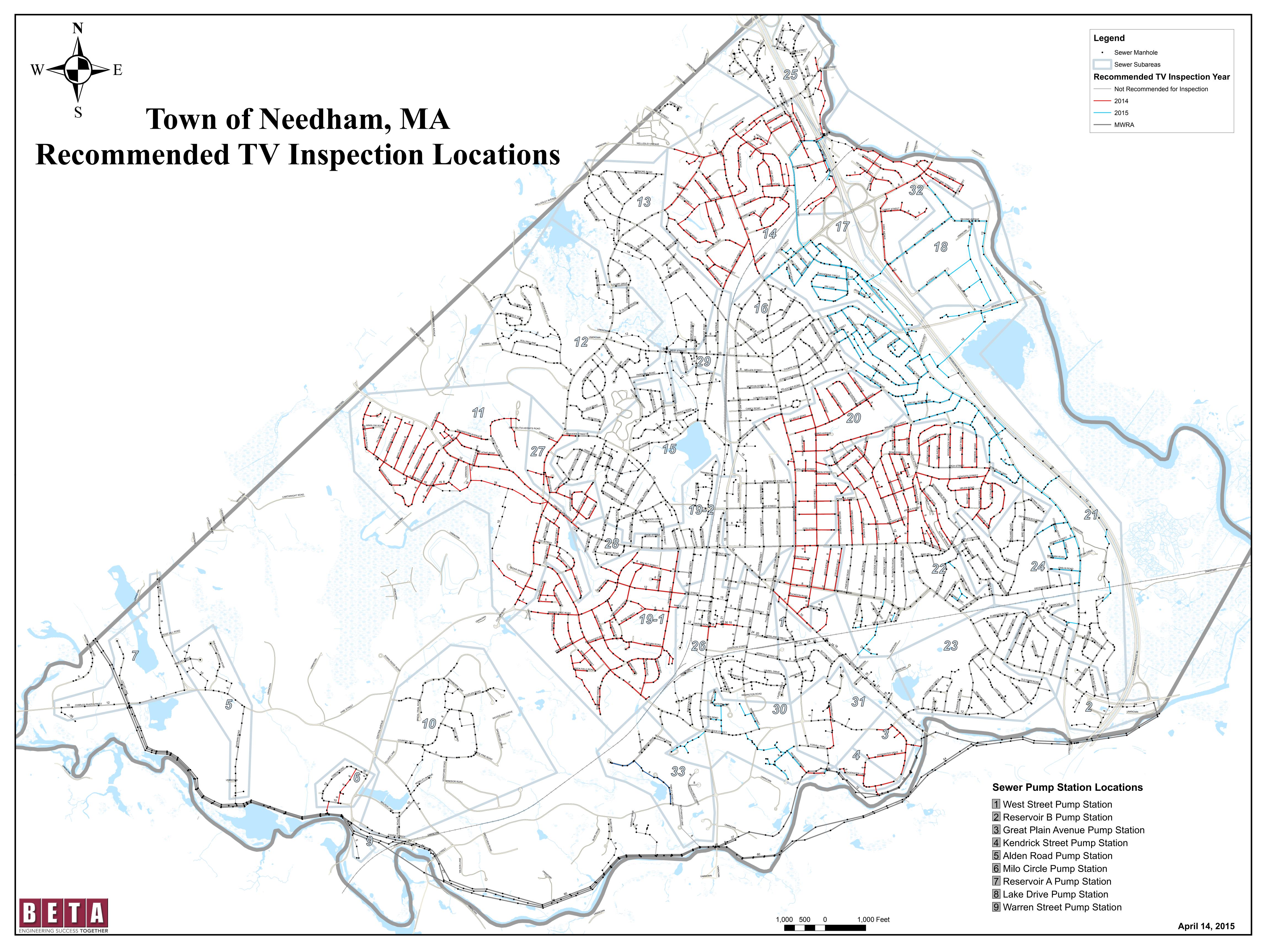
Project: Needhan: MK/JC/TH/6E

SITE LOCATION		
West St.	Location: West St. Page Station	
Wes	MH# Needloon 35	
Stram.	Map #	
PS CO	Date: 3/20	
The agent printer continues and the second printer and the second pr	Time: 0835	
	Regulator#	
PLAN VIEW	LINE DESCRIPTIONS	
	Incoming Outgoing Overflow	
	Size <u>/</u>	
	Material <u>Cost</u> <u>Loct</u>	
Sensor	Debris	
Settisti	Shape Rand Hand	
	Depth 9'4" 9'5"	
PROFILE VIEW	WEIR/FLUME	
	Length	
	Width	
	Level Yes No	
	Height Above Weir	
Sonsor	Overflow Occurs @	

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(ell #721-898-507)

Appendix L Recommended TV Inspection Location Map



Appendix M GIS and AutoCAD Updates

Town of Needham, Massachusetts Spring 2013 Townwide Inflow & Infiltration Study

Final Submission: March 2017

Phase I - Appendix