

PROBLEM IDENTIFICATION TECHNICAL MEMORANDUM

Broadview Sewer Investigation Project

Prepared for

Seattle Public Utilities
700 5th Avenue, Suite #4500
P.O. Box 34018
Seattle, Washington 98104

Prepared by

Herrera Environmental Consultants, Inc.
2200 Sixth Avenue, Suite 1100
Seattle, Washington 98121
Telephone: 206/441-9080



3/31/2009

March 31, 2009

Note:

Some pages in this document have been purposefully skipped or blank pages inserted so that this document will copy correctly when duplexed.

Contents

Objective	1
Background	1
Previous Studies.....	1
Problem Identification	5
Base Flow	6
Inflow and Infiltration.....	6
Hydraulic Capacity	6
Existing Conditions.....	8
Infrastructure.....	8
Geology.....	9
Hydrogeology	10
Recent Stormwater Projects.....	10
Operation and Maintenance	11
Cleaning.....	11
Repairs	11
CCTV.....	12
Preliminary Investigative Steps	15
Flow Monitoring Reach Data Analysis	16
Additional CCTV Investigation.....	16
Smoke Testing	16
Field Investigation	22
Summary and Conclusion	27
References.....	28
Appendix A	SPU Operations and Maintenance
Appendix B	SPU CCTV
Appendix C	Additional CCTV Conducted in November 2008
Appendix D	Smoke Testing Results
Appendix E	Focus Areas

Tables

Table 1.	Cleaning and maintenance activity occurrence for Broadview from 1997 through 2008.	12
Table 2.	CCTV occurrences for Broadview from 1997 through 2008.	15
Table 3.	Broadview smoke testing summary June 2008.	21

Figures

Figure 1.	Vicinity map.....	3
Figure 2.	Inflow and infiltration sources.	7
Figure 3.	Cleaning and maintenance activity locations and reported occurrences per pipe segment.	13
Figure 4.	CCTV locations and reported occurrences per pipe segment.	17
Figure 5.	Locations of flow monitoring sensors and CCTV performed in November 2008.....	19
Figure 6.	Smoke testing results.	23
Figure 7.	Field investigation focus areas.....	25

Objective

This document provides a brief summary of the history of the sanitary sewer system in Broadview; a description of the existing system including infrastructure, hydrology, geology and hydrogeological conditions; a description of possible problems with the system and the historical overflow events; and an analysis of the monitoring, video inspection, and maintenance data available.

Background

Broadview is located in northwest Seattle and includes the area between NW 130th Street, NE 105th Street, Fremont Avenue N., and NW Blakely Court. The majority of the land use is single family homes. The area also includes multifamily low-rise, neighborhood commercial, and commercial zoning. Broadview became part of the City of Seattle on January 4, 1954. City Ordinance 82425, known as the annexation ordinance, states “[as of January 4, 1954 the annexed area] shall become and be a part of the City of Seattle subject to all the laws and ordinances thereof and thereafter in force.

Seattle Public Utilities (SPU) is investigating alternatives to reduce the frequency of sewage backups in Broadview. Broadview has experienced two significant storm events in the last decade that resulted in several sewage backups in houses. The first storm event occurred on December 31, 1996 – January 1, 1997 and was associated with a 130-year return interval according to the U.S. Army Corps of Engineers (USACE 1997). The second storm event occurred on December 2-3, 2007; approximately 5 inches of rainfall occurred primarily on the second day. Earlier backups have occurred prior to 1996 based on the history of claims for the area.

During both of these events, portions of the sanitary sewer were overwhelmed, resulting in basement sewage flooding in private properties and maintenance hole overflows. The latter contributed to roadway flooding, impacts to the Piper's Creek drainage and flooded private properties.

Figure 1 shows a vicinity map of the project area.

Previous Studies

Several studies have been conducted in the past with varied focus. Studies addressed sanitary sewer conveyance system capacity, sanitary sewer system master planning, pump station capacity and outfall discharge reduction, while others addressed stream protection.

2006 Wastewater Systems Plan

The 2006 Wastewater Systems Plan was intended to aid in the coordination of several activities including planning, engineering, operations, maintenance, financial planning and customer service. The plan addressed capital and operational needs over 20 years and identified programs and initiatives to be delivered over that time (Brown and Caldwell 2006).

2005 Seattle Public Utilities – Mainline Sewer Pipe Maintenance/Backup Strategy

According to the 2005 Seattle Public Utilities (SPU) – Mainline Sewer Pipe Maintenance/Backup Strategy, SPU experiences an average of 80 mainline sanitary sewer backups per year for which it assumes responsibility. The causal patterns of these backups were examined and alternative maintenance strategies developed based on both historical and hypothetical future costs to determine if SPU is currently pursuing the most effective mainline sewer pipe maintenance/backup strategy possible. The goal of this report was to examine SPU's current sanitary sewer pipe cleaning strategy in comparison to other possible approaches and to propose the most pragmatic future strategy based on triple bottom line costing methodology. To this end five separate mainline sanitary sewer pipe maintenance strategies were analyzed including the existing strategy (SPU 2005).

2005 Geotechnical Data Report – Sea Street Post Construction Hydrologic Study

The 2005 Geotechnical Data Report – Sea Street Post Construction Hydrologic Study included a subsurface investigation performed by the Seattle Public Utilities Materials Laboratory. The report was conducted to investigate unusually high rates of stormwater runoff reduction of up to 99 percent. The report included a subsurface investigation with several soil borings. Soil conditions and groundwater depths were investigated during the summer of 2005 and 2006 (SPU 2005).

1999 Carkeek Park Sewer Overflow Study

The 1999 Carkeek Park Sewer Overflow Study determined the cause of overflows and evaluated alternatives to eliminate or minimize future overflows. Alternatives were evaluated based on criteria such as reduction of the frequency and severity of future overflows, avoidance of negative impacts, implementation requirements, reduction of infiltration and inflow (I/I) reaching the King County system, and cost (Herrera 1999), which was constructed in 1999.

1998 Broadview Sewer Assessment

The 1998 Broadview Sewer Assessment evaluated alternatives for reducing the potential for sewage backups in Broadview. Alternatives were evaluated based on objectives such as reduction of sewage backups in the residential area, avoidance of problems in other areas, and the ability to implement the alternative in 1998. The conclusions from the study were used to develop several elements of a Seattle Public Utilities (SPU) phased plan of action (Herrera 1998). The assessment also recommended new gravity sewer piping along NW 120th Street and 6th Avenue NW. The recommended improvements were constructed in 1998.

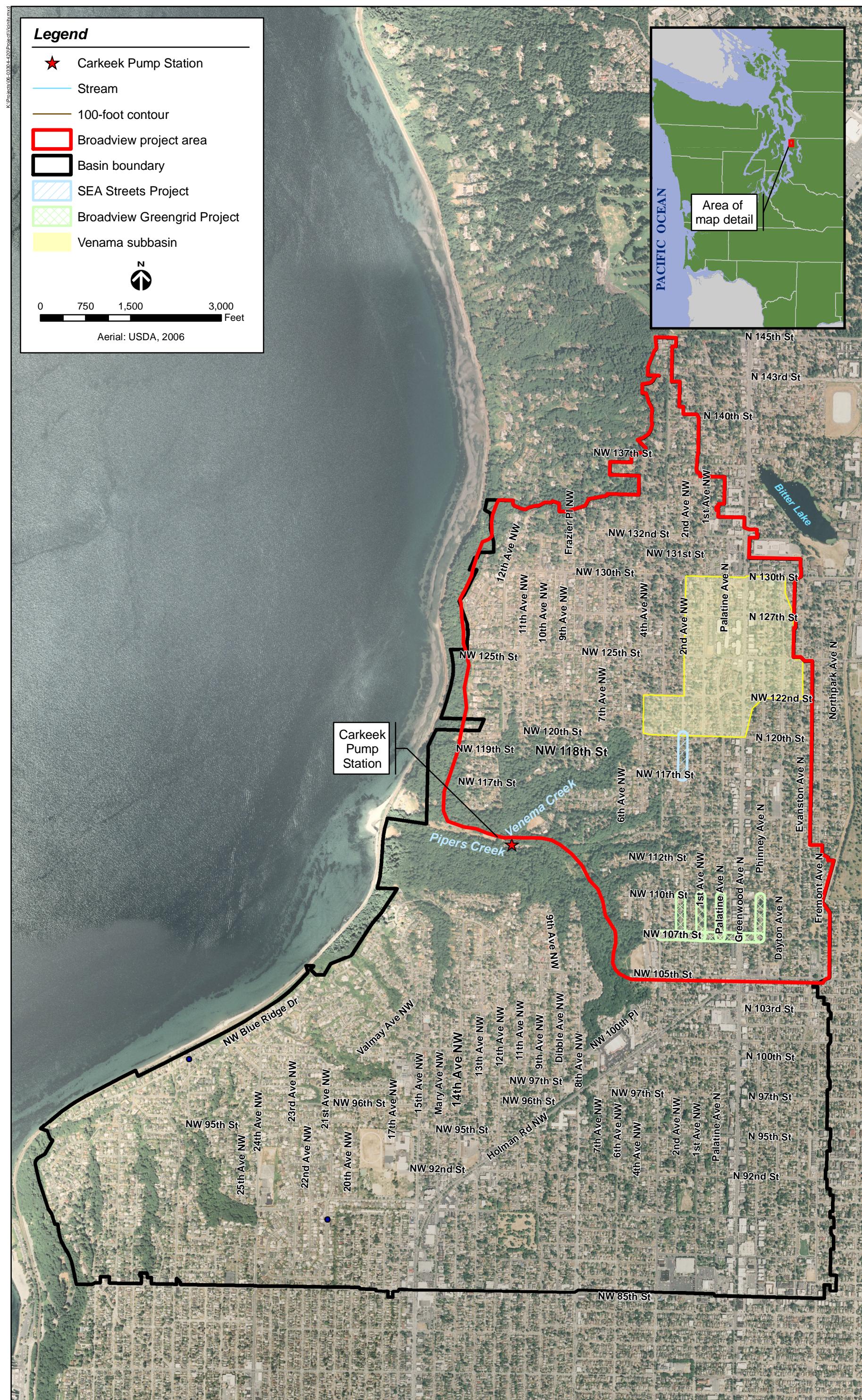


Figure 1. Vicinity map.

1988 Facility Plan for the Carkeek Transfer / CSO Facilities Project

The 1988 Facility Plan for the Carkeek Transfer / CSO Facilities Project developed potential solutions for reducing I/I in Broadview. The report quantified I/I rates based on an analysis of flows at the Carkeek CSO Treatment Plant and developed alternatives to reduce I/I rates. This report concluded even though the system experiences significant infiltration and inflow, it would be too costly to correct given existing technology.

1979 Infiltration and Inflow Study

The 1979 Infiltration and Inflow study was conducted in the Carkeek Park system as part of the City of Seattle Facility Plan for 1985-2005. The study concluded that, of the 12 subbasins studied, 9 had excessive infiltration in the main line sewers and would be cost effective to rehabilitate. Broadview was one of the areas found to have excessive infiltration (Seattle Engineering Department 1979).

Problem Identification

The Broadview area has experienced sewer backups on a number of occasions in the past. Approximately 13 homes in the area reported sewage backups starting on December 31, 1996 and subsiding on January 1, 1997. In several cases the backups persisted for several days. The majority of sewage backups into residences occurred on 6th Avenue NW and 7th Avenue NW, although some houses on 8th and 120th also experienced backups. SPU records indicate that sewage backups also occurred in this area in 1986 in at least five residences. These backups primarily occurred on 7th Avenue NW, 8th Avenue NW, and NW 120th Street.

During the December 3, 2007 event, approximately 78 homes in Broadview reported sewage backups. The majority of sewage backups occurred between NW 105th Street and NW 130th Street.

A chronic overflow situation has also been present in Carkeek Park in the pipeline adjacent to Pipers Creek serving greater Broadview and the basin west of Broadview. Several maintenance holes on this line have repeatedly surcharged and several maintenance holes in this lower pipeline are not bolted shut to prevent overflows. This problem appears to have improved since the water treatment plant was improved in 1995, but overflows did occur within this reach of pipe in January and March of 1997 and again in 2007.

Several factors have contributed to sewage backups in Broadview, including base flow, inflow and infiltration, hydraulic capacity, and system configuration. The following is a discussion of these factors.

Base Flow

The three most common contributions to sanitary sewers are domestic, commercial, and industrial flows; and inflow and infiltration (I/I). The vast majority of base flow contribution in the project area is domestic flow. There are no known significant industrial contributions. There are contributions from light commercial sources such as laundromats and restaurants. The majority of these facilities are located along Greenwood Avenue N. A thorough analysis of base flows will be conducted as part of project modeling.

Inflow and Infiltration

Inflow and infiltration are significant contributors to the sanitary sewer system. The most significant source of I/I is from precipitation such as rainfall, groundwater, or snow melt. Inflow typically enters the sanitary sewer system through roof gutters, cleanouts, foundation drains, sump pumps, and yard or area drains. Inflow may also enter through maintenance hole lids, defective maintenance hole frame seals, and connections between a sanitary and storm sewer.

Infiltration is typically groundwater that enters the sanitary sewer through cracked or otherwise defective pipes, pipe joints, side sewers, pipe connections, walls, or seams of maintenance holes. Infiltration in general is caused when the groundwater elevation is equal to or higher than the sanitary sewer elevation. Usually, contribution to groundwater is from precipitation events, perched groundwater tables, or leaking water mains. Storm influenced infiltration is generally highest in shallow sanitary sewers, such as side sanitary sewer connections or lateral lines. Storm influenced infiltration is also a factor when stormwater enters the pipe trench and flows through the usually porous pipe bedding material to an entry point into the sanitary sewer. Pipe bedding can act as a hydraulic conduit. In many cases, pipe collars or similar provisions are used to mitigate this condition. Figure 2 depicts the different methods of inflow and infiltration.

The combination of infiltration and inflow can significantly reduce the capacity of sanitary sewers and lead to sanitary sewer surcharging resulting in backups, blockages, sedimentation, surface or basement flooding, and overflowing maintenance holes.

Hydraulic Capacity

Gravity sewers operate under two flow scenarios; pipe barrel and surcharge. Under the pipe barrel operating scenario, the depth of water or hydraulic grade line (HGL) is at or below the crown of the pipe. The crown of the pipe is defined as the highest point on the interior of the pipe. The invert of the pipe is defined as the lowest point of the interior of the pipe.

Under the surcharge operating scenario, the HGL is above the crown of the pipe. Typically, gravity sewers are not designed to operate under this condition. This is because the performance or capacity of the pipeline is more difficult to estimate under this flow condition, sometimes requiring complex software modeling. Also, under the surcharge condition, the hydraulic grade line rises into structures such as junction boxes and maintenance holes. This results in debris

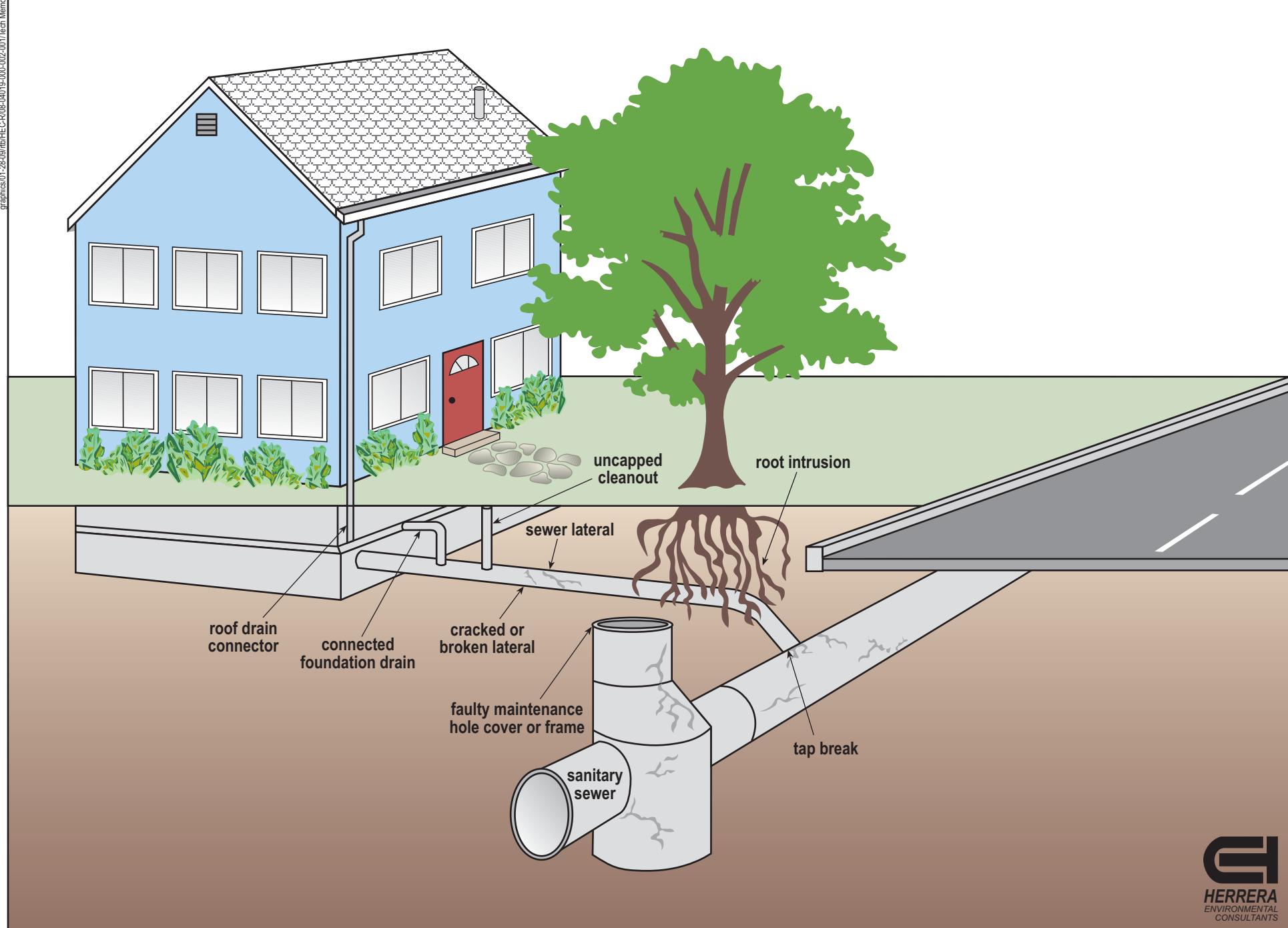


Figure 2. Inflow and infiltration sources.

deposits within the maintenance holes, typically on ladder rungs or benches. Surcharging can increase system stress and can accelerate aging of the pipe.

The pipe barrel hydraulic capacity of a sanitary sewer system operating under a pipe barrel scenario is estimated using Manning's equation.¹ The capacity of a surcharged sanitary sewer can be estimated with a variation of the Manning's equation² or with modeling software.

Industry standard design practices include use of the Manning's equation or modeling to determine performance of an existing or proposed pipeline under a pipe barrel operating condition. A more thorough analysis of system capacity under pipe barrel and surcharged conditions will be conducted as part of the modeling task of this project.

Existing Conditions

Infrastructure

Broadview is approximately 990 acres in size and is entirely sewered and primarily residential. It is served by a sanitary sewer system and a limited stormwater system. The wastewater conveyance system to be studied as part of this project serves the area bounded by NW 105th Street to the south, NW 140th Street to the north, Fremont Avenue N. to the east, and 12th Avenue NW to the west.

Stormwater Conveyance

Broadview includes very little stormwater conveyance infrastructure. The existing stormwater conveyance system is limited. There is very little continuous piped conveyance from generating surfaces such as roadways to Piper's Creek. The majority of stormwater sheet flows off roadways into adjacent grass lined ditches. A portion of the stormwater infiltrates although infiltration rates vary throughout the study area. Stormwater may also evaporate or inflow and infiltrate into the sanitary sewer. Eventually, a portion of stormwater is delivered to the Pipers Creek drainage.

¹ Manning's Equation Pipe Barrel Scenario:

$$Q = 1.49/nAR^{2/3}S^{1/2}$$

Q = flow (cfs)

n = roughness coefficient (0.013)

A = pipe area (sf)

R = wetted perimeter (ft)

S = pipe slope (ft/ft)

² Manning's Equation Surcharge Scenario:

$$Sf = (n^2 Q^2 / 2.22 A^2 R^{4/3})$$

Sf = energy slope or hydraulic grade line

Q = flow (cfs)

n = roughness coefficient (0.013)

A = pipe area (sf)

R = wetted perimeter (ft)

S = pipe slope (ft/ft)

Wastewater Conveyance

Wastewater generated within the study area is from residential and light commercial sources with no known industrial wastewater contribution.

The sanitary sewer is owned and maintained by SPU and is considered a dedicated system by SPU. Wastewater is conveyed to the West Point Treatment Plant via the county pipeline and pump station located at the bottom of the Carkeek drainage. In case of high flows that cannot be conveyed by the pump station portion of Carkeek Treatment Plant, the wastewater will receive primary treatment prior to discharge to Puget Sound.

In addition to residential and light commercial wastewater sources, smoke testing performed as part of the 1998 Broadview Sewer Assessment and as part of this project in June 2008 to determine significant stormwater contributions to sanitary sewer. The results of smoke testing are discussed in later sections.

The majority of sanitary sewer lines in Broadview are between 6 and 12 inches in diameter. They are generally concrete and were constructed in the 1950s. The majority of maintenance holes in the area are brick and mortar. A sanitary sewer project was constructed in 1998 and included replacement of sanitary sewer lines along 9th Avenue NW, NW 118th Street, 8th Avenue NW, and NW 120th Street. This project was recommended as part of the 1998 Broadview Sewer Assessment.

Geology

Broadview and the surrounding area are situated on an extensive upland glacial plane called the Seattle Drift Plane (Liesch 1963). This geologic feature consists primarily of Quaternary glacial deposits resulting from the Vashon stage of the Fraser glaciation that occurred between 17,000 and 13,500 years ago. The glacial units in the Seattle area, including Broadview, are represented by four generally recognizable members (from oldest to youngest): Lawton Clay (glaciolacustrine deposit), Esperance Sand (advance outwash), Vashon till, and Vashon stratified ice-contact and recessional outwash deposits (Troost et al. 2005).

The Lawton Clay is glaciolacustrine sediments consisting of laminated to massive dark gray clay and light gray silt. This clay/silt unit resulted from fine-grained sediments deposited into a proglacial lake that formed as the Vashon glacial ice lobe advanced south and blocked the northern part of the Puget Sound Basin (Galster 1991). Deposited above the Lawton Clay is a highly permeable, fine- to medium-grained sand unit called the Esperance Sand Member, representing the advance outwash of the Vashon glacier. The Lawton Clay and the Esperance Sand are sometimes intermixed and interbedded, and the contact between the two soil types may be transitional. A mantle of Vashon glacial till was deposited on top of the Esperance Sand and Lawton Clay. Vashon till is a poorly sorted mixture of sand, silt, gravel, and clay, with occasional cobbles and boulders. It is very dense and relatively impermeable. These units are overconsolidated as a result of being overridden by an estimated 3,000 feet of glacial ice.

Vashon recessional outwash consisting of stratified sand and gravel was deposited by meltwater of glacial ice as it retreated across the drift plane. This was followed by postglacial alluvial deposition in streams and rivers, localized peat deposition, and soil development. The drift plane land surface includes elongated drumlins, poorly drained stream courses, and locally closed depressions occupied by lakes, wetlands, and peat bogs.

It is difficult to determine what impact the geology may have on infiltration and NDS. Typically infiltration tests are performed to verify actual infiltration rates for project sites. Infiltration testing associated with the SEA Streets Project was performed in Broadview and is discussed in the hydrogeology section below.

Hydrogeology

Groundwater in the Seattle area generally occurs in unconfined permeable zones within the recessional outwash sand/gravel deposits overlying glacial till and in confined zones within the advance outwash Esperance Sand underlying the till. Groundwater is primarily recharged by direct infiltration and seepage from precipitation and surface runoff. Based on surface topography, flow direction of shallow groundwater within Broadview is assumed to the west and southwest toward Pipers Creek and Puget Sound. The regional groundwater flow direction within the Esperance Sand advanced outwash generally is to the west toward Puget Sound.

Infiltration in Broadview is discussed in the August 25, 2005, Geotechnical Data Report – SEA Street Post Construction Hydrologic Study. The SPU Materials Lab worked with UW to provide subsurface soil and groundwater information and installed groundwater instrumentation in order to monitor the flow of groundwater over time. The report describes the soil in the area as characterized by high shear strength, low compressibility, and highly variable permeability. As a result, infiltration may be possible based on site specific conditions confirmed by infiltration testing.

Recent Stormwater Projects

The Broadview Green Grid Project and the Street Edge Alternatives (SEA Streets) Project are located within the project area. The Broadview Green Grid Project is a Natural Drainage System (NDS) project that manages stormwater flow from approximately 32 acres. It was constructed in 2003-2004 and consists of swales, stormwater cascades, small wetland ponds, larger landscaped areas and smaller paved areas. The Broadview Green Grid is located between N. 107th Street to N. 110th Street and 4th Avenue N. to Phinney Avenue N., shown on Figure 1. It is designed to reduce the speed and quantity of stormwater runoff.

The SEA Streets project is also a NDS project. It was constructed in 2001 and consists of vegetated swales that provide surface detention. The project also reduced impervious surfaces to 11 percent less than a traditional street. SEA Streets is located on 2nd Avenue NW between NW 117th Street and NW 120th Street, shown on Figure 1.

Operation and Maintenance

Sanitary sewer operation and maintenance is performed to prevent and remedy system performance issues. The goal of the sanitary sewer operation and maintenance program is to maintain system performance and manage system deterioration. Factors that typically contribute to accelerated pipe deterioration can include material quality, installation techniques, soil conditions, wastewater composition, hydraulics, and concentrations of hydrogen sulfide. No pipeline material testing is expected to be performed as part of this project; however, the condition of the pipes will be assessed through review of CCTV records. SPU actively identifies and manages problem areas. Once identified, problem areas are assessed and an inspection and maintenance schedule is created based on the unique issues associated with the area in question.

SPU performs routine planned sanitary sewer maintenance including mainline cleaning, non-emergency repairs, and closed circuit television (CCTV) inspection. SPU also performs reactive maintenance on sanitary sewers including responding to blockages, sanitary sewer failures, or customer complaints.

Cleaning

Sanitary sewer pipe cleaning includes hydrocutting, rodding, jet cleaning, and chemical root foaming. SPU routinely cleans approximately 30 percent of the collection system throughout Seattle.

Sanitary sewers typically require cleaning due to debris, root intrusion, or fats-oils-grease material deposition and buildup. These problems are typically identified in the sanitary sewer during an inspection or because a backup resulted in a customer complaint. Once the need for a sanitary sewer cleaning has been identified, it is typically placed on a regular cleaning schedule ranging from every 6 months to every 2 years.

Residents are responsible for cleaning and maintaining catch basins and storm inlets on their property. SPU is responsible for maintaining catch basins and storm inlets within the SPU right-of-way. SPU recommends that the system is inspected yearly for signs of pollutants around the storm grate (oil sheen, stains, or dirt); poor drainage; sagging asphalt around the structure; excessive sediment; and damaged or missing outlet traps.

Repairs

Repairs for gravity sanitary sewers typically include planned point repairs, emergency point repairs, full-segment lining, and full-segment replacement. Point repairs involve repairing a defect in a small section of pipe. Full-segment repairs involve repairing or replacing a large section of pipe that has several defects. SPU has a gravity sanitary sewer repair and replacement program that they use to determine which pipes need repair or replacement each year (Brown and Caldwell 2006).

Cleaning and maintenance records are currently stored and analyzed using a program called Maximo. Prior to 2005, records were kept using a program called Hansen. A summary of the cleaning and maintenance data is given below.

Table 1 shows the cleaning and maintenance activities performed in Broadview and their level of occurrence, while Figure 3 shows the locations where these activities were performed. Figure 3 shows the frequency of activities in each pipe segment by a color code which corresponds to: areas having a record of less than 15 maintenance and cleaning events are colored green; areas having a record of 15 to 30 maintenance and cleaning events are colored yellow, areas having a record of 31 to 45 maintenance and cleaning events are colored orange, and areas having a record of over 45 maintenance and cleaning events are colored red. Details on the locations and activities performed can be found in Appendix A. The data provided represents cleaning activities performed from 1997 through 2008. The activities that were performed most frequently were manual inspection of the system, jet cleaning, machine rod cleaning, and CCTV inspection.

Table 1. Cleaning and maintenance activity occurrence for Broadview from 1997 through 2008.

Number of Occurrences	Percentage	Description
1177	47.2%	Manual Inspection
280	11.2%	Jet Clean
178	7.1%	Machine Rod Mainline
93	3.7%	Sewer Backup Inspection
222	8.9%	Sewer Mainline TV
39	1.6%	CCTV Demand/Response
161	6.5%	Hydrocut Mainline
9	0.4%	Jet and Hydrocut
11	0.4%	Chemical Foam for Roots
1	0.0%	Maintenance Hole Inspection
321	12.9%	Other Maintenance
2,492		

There has been a significant amount of cleaning and maintenance activity in the project area within the last 12 years. The majority of cleaning and maintenance were manual inspections, other, jet cleaning, orders for CCTV inspections, and root removal. Sedimentation and root intrusion appear to be the most common problems within the last 12 years.

CCTV

Closed Circuit Television (CCTV) inspection involves running a camera through the sanitary sewer pipe to identify deficiencies in the sanitary sewer lines and evaluate the effectiveness of various maintenance procedures. CCTV inspection is also a useful tool in locating specific sources of infiltration.



Figure 3. Cleaning and maintenance activity locations and reported occurrences per pipe segment.

Table 2 shows the CCTV activity findings by type while Figure 4 shows the amount of CCTV occurrences reported per pipe segment. The information on Figure 4 is presented in a similar format to Figure 3 with color codes denoting certain levels of occurrence. Detail on the exact location and type of occurrence is presented in Appendix B. The data provided represents CCTV activities performed between 1997 and the end of 2008.

Table 2. CCTV occurrences for Broadview from 1997 through 2008.

Number of Occurrences	Percentage	Description
230	12.6%	Alignment
11	0.6%	Radial Crack
0	0.0%	Longitudinal Crack
74	4.1%	Inflow/Infiltration
2	0.1%	Broken Joint
40	2.2%	Misaligned Joint
188	10.3%	Lateral
193	10.6%	Roots
188	10.3%	Debris
2	0.1%	Structural - Ovality
4	0.2%	Structural - Collapse
58	3.2%	Structural - Deterioration
6	0.3%	Broken Pipe
72	4.0%	Deposits - Attached
23	1.3%	Deposits - Settled
82	4.5%	Fracture
348	19.1%	Tap
301	16.5%	Miscellaneous
1,822		

The single highest CCTV occurrence findings are taps, which are either active or inactive lateral connections. Of the 348 taps identified, approximately 40 were found to be cracked or defective in some manner. Root intrusion can also happen at taps; however, this is quantified under the “roots” category. The other most commonly occurrences were alignment problems (12.6 percent), root intrusion (10.6 percent), lateral problems (10.3 percent), and debris accumulation (10.3 percent). Additional CCTV work has been requested for areas that have had historic sewer backups.

Preliminary Investigative Steps

The following is a discussion of preliminary investigative steps that have been conducted to date as part of this project.

Flow Monitoring Reach Data Analysis

In order to obtain a better understanding of the issues, the data analysis was narrowed down to the problem locations identified from SPU and Broadview Community Council data. Problem locations were identified using reported flooding data, sanitary sewer backup data, field investigation observations, and an inventory conducted by the Broadview Community Council.

The Broadview Community Council is a group of Broadview residents that meet periodically to discuss topics and address concerns associated with Broadview. The Broadview Community Council conducted a survey of residents impacted by the December 2007 storm.

The information from the survey was used to identify the areas that were impacted by the storms and where more information on the flow conditions was desired. The Broadview Community Council data in addition to SPU records were used to site 12 flow monitoring locations. SPU claim data, Broadview Community Council data, and flow monitoring locations are shown in Figure 5. Flow monitoring data will be used to support subsequent basin sanitary sewer modeling. The problem locations identified by SPU and the Broadview Community Council were reviewed to identify adjacent sanitary sewer pipe segments that may be contributing to the problems.

Additional CCTV Investigation

An additional 69 pipe segments were identified to undergo further CCTV inspections based on information provided by the Broadview Community Council, SPU claim data, and historic maintenance locations. The locations of the additional CCTV activity are also presented in Figure 5 and Appendix C. These additional CCTV inspections took place in November 2008, and the data from these inspections will be used to identify any current maintenance defects. This information will be used to identify any potential spot fixes as well as calibration of the basin model.

Smoke Testing

Smoke testing was conducted in the project area in June 2008 to determine where inflow was entering the sanitary sewer through roof downspouts, catch basins, foundation drains, or faulty cleanouts; or, in some cases, where infiltration was entering the sanitary sewer pipe through a broken lateral, faulty lateral connection, root intrusion, or a cracked or broken pipe. Smoke testing was performed by Bravo Environmental (Bravo) and was overseen by SVR Design Company (SVR). SVR prepared Summary Memorandum #12 that summarized findings and is included in Appendix D.

Objective

Smoke testing was performed in a portion of the current project basin not included in smoke testing performed during the previous 1998 study. Because significant construction has not occurred throughout the westernmost portion of the project basin included in previous smoke



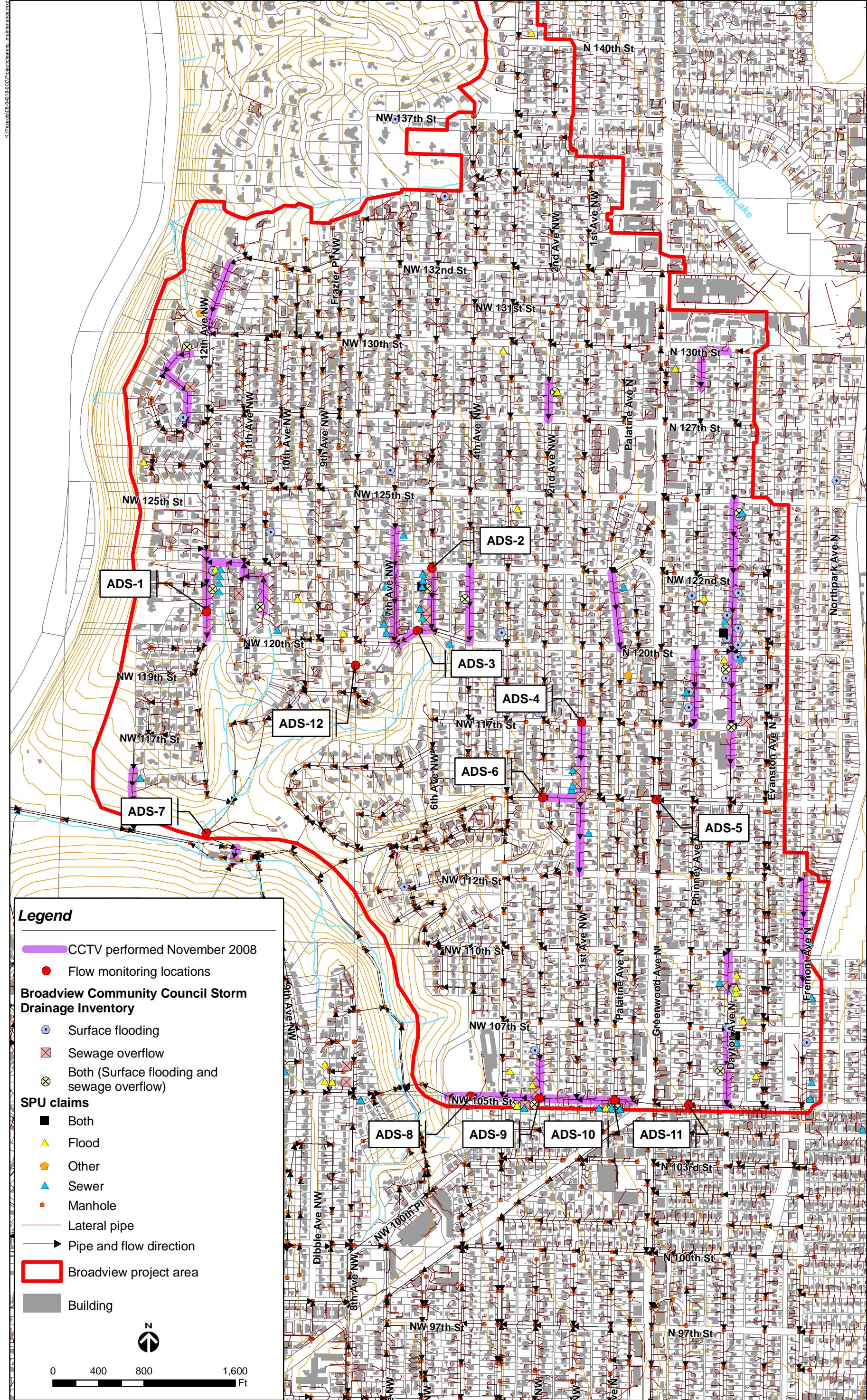


Figure 5. Locations of flow monitoring sensors and CCTV performed in November 2008.

testing, current smoke testing was conducted only in the portion of the project area not previously tested. Also, most construction and development has occurred along Greenwood, within the current smoke testing area. The area recently smoke tested is shown in Figure 6.

The smoke testing data will ultimately be used to calibrate a basin model that will simulate the HGL within the sanitary sewer under various rainfall events. This information is critical to improve the accuracy of the basin model.

Approach

Inert smoke was pumped into sanitary sewer maintenance holes. The smoke traveled within the sanitary sewer system and into piped connections to the mainline such as service laterals, roof drains, and other piped stormwater systems. Bravo observed smoke exiting various structures adjacent to the test area including maintenance holes, roof drains, area drains, and catch basins. Smoke exiting any of these structures confirmed a physical connection to the sanitary sewer.

Results

The quantity of non-sanitary sewer connections to the sanitary sewer is summarized in Table 3 below. Of the connected locations, the majority are roof drain downspouts followed by unknown connections identified by smoke emitting from the ground. There are also several area drains and catch basins designed to capture and convey surface water with connections to the sanitary sewer.

Table 3. Broadview smoke testing summary June 2008.

Summary	Total Number of Connections to Sanitary Sewer	Percent By Type of Connection	Percent of Total Residences
Downspouts	95	41%	7%
Ground/Other	66	29%	5%
Drain/Catch Basin	52	23%	4%
Faulty Cleanout	17	7%	1%
Total	230	—	16%
Number of connections		230	
Total residences		1,434	
Test area (acre)		406	

Acreage from SVR, August 28, 2008 Memorandum #12 – Draft.

Seven percent of the residences within the test area have roof drain downspout connections to the sanitary sewer. While this is not a high percent of residences, the total percent of residences with some form of non-sanitary sewer connection or broken sanitary sewer connection is about 16 percent. The smoke testing conducted in 1998 found that 20 percent of similar connections. The current results are in line with previous findings. This may represent a significant contribution to the sanitary sewer system.

Appendix D includes a results discussion by SvR. In the discussion, they estimated the amount of stormwater generated by impervious areas connected to the sanitary sewer. A detailed analysis and discussion of their findings will be included in deliverables associated with the modeling task.

Field Investigation

Herrera conducted a site visit on August 13, 2008 to investigate the known problem areas. Flooding locations were organized into the 14 general areas listed as Sites A-M. These locations are shown on Figure 7. A more detailed discussion and description of Sites A-M is included in Appendix E.

Maintenance Hole Condition Assessment

A general maintenance hole condition assessment was conducted as part of the preliminary field investigation for flow meter installation and to determine if any existing conditions could contribute to capacity problems. Several maintenance holes adjacent to flow meter locations were inspected. However, maintenance hole inspections were not comprehensive and did not include all of the maintenance holes within Broadview. All of the flow meter maintenance hole locations were assessed in August 2008. The assessment included visual observations only. The maintenance hole was not entered as part of the assessment. No significant rainfall had occurred within days of investigation. The majority of the maintenance holes were brick and mortar and showed evidence of the following:

- Infiltration – Staining was observed at various depths. Active Infiltration was observed at several locations.
- Bench – Benches were in good condition. No significant deterioration was present. Benches were not cracked or missing. Most were wet, indicating infiltration.
- Walls – Brick and mortar was generally sound. Mortar joints were not sound as evidenced by active and historic signs of infiltration.
- Rim – Rims were in good condition. Evidence of leakage was present at most locations. Leakage did not appear to be severe. Moderate rust and pitting present.
- Channelization – Channelization appeared in good shape. Minor pitting in channel base in some locations but not enough to significantly impede or affect flow.
- Pipe Connections – Pipe connections appeared sound. Mortar appeared to be in good condition, however mortar was not probed.

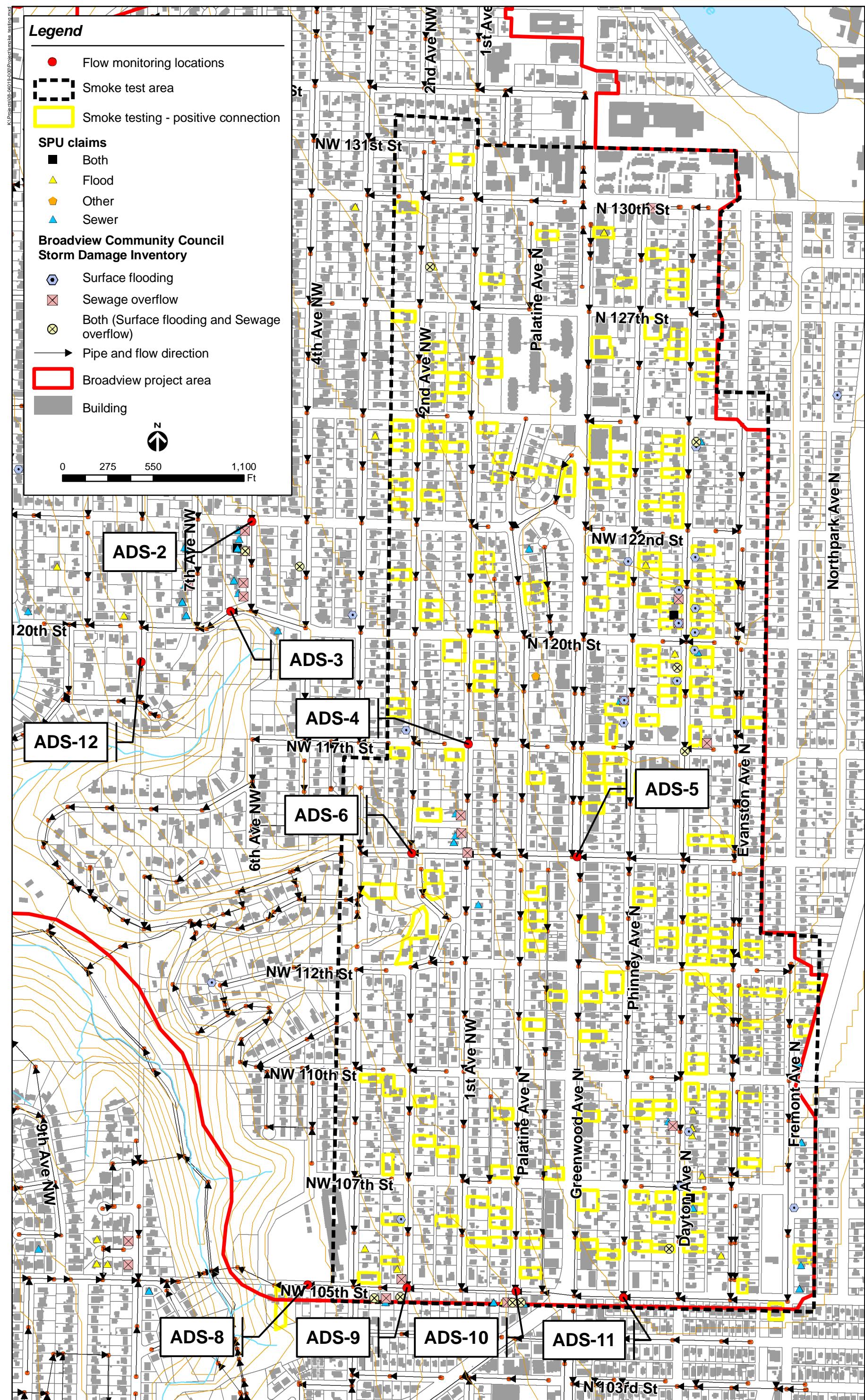
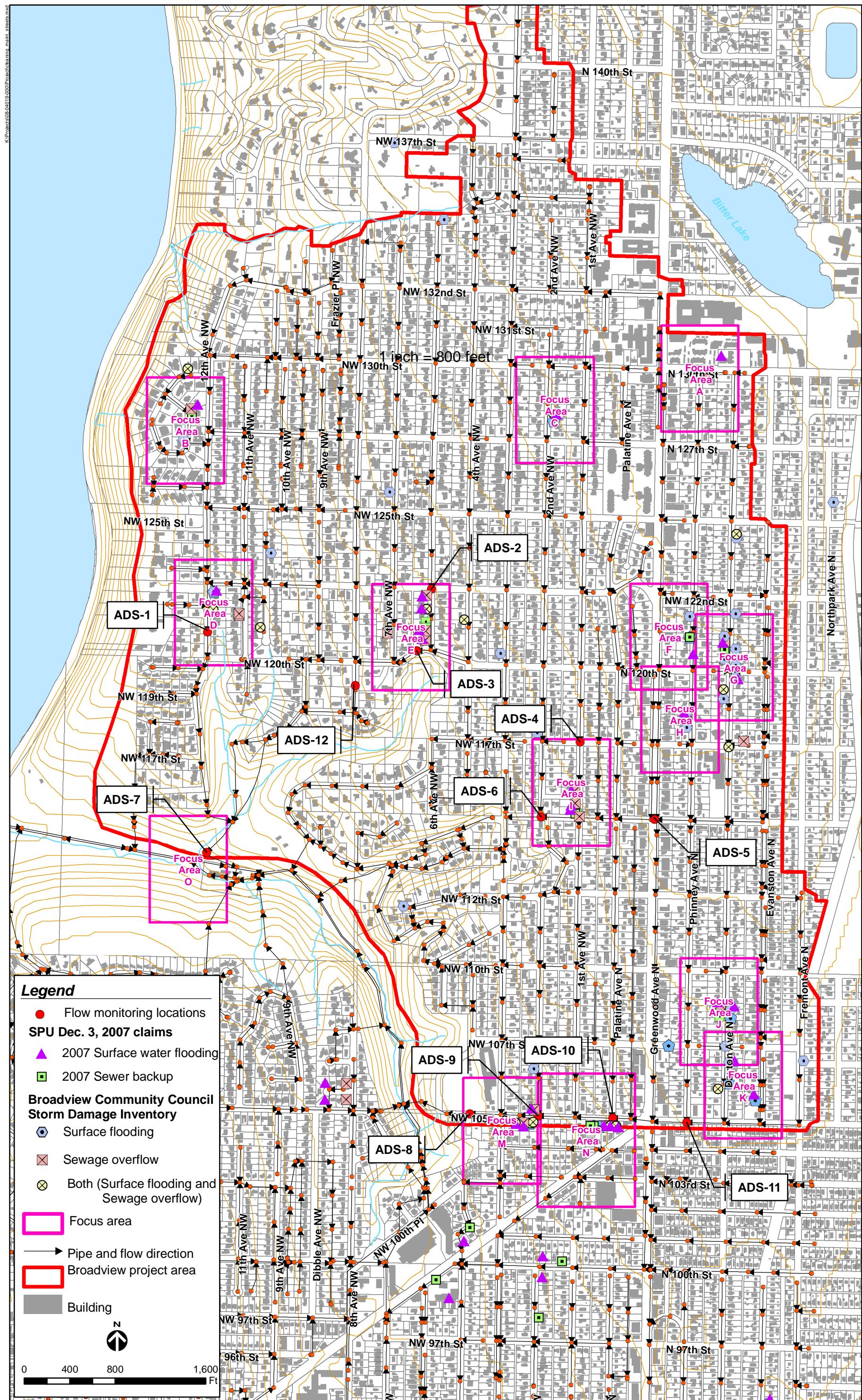


Figure 6. Smoke testing results.



- Flow – Flow was not generally brackish, as is typical of wastewater. Flow was clear at some locations indicating potential infiltration. No evidence was present of any conditions that would significantly affect pipeline capacity within flow meter maintenance holes at the time of the inspection.

Summary and Conclusion

Broadview has had historic sewer backups. The general condition of the sanitary sewer in the project area is typical of 50-year-old pipelines, and system-wide structural deficiencies have been identified. However, there are significant contributions from inflow and infiltration that may be affecting the system capacity.

Groundwater appears to be at least partially impeded by an underlying clay layer. This may contribute to high groundwater conditions and in combination with the pipe age and configuration, which can contribute to infiltration. The inspection of maintenance holes confirms significant signs of infiltration.

Broadview continues to have sanitary sewer surcharging and flooding issues. Additional investigation and development of alternative solutions is warranted.

References

- Brown and Caldwell. 2006. 2006 Wastewater Systems Plan. Prepared for Seattle Public Utilities by Brown and Caldwell, Seattle, Washington. March 2006.
- Galster, Richard W. and William T. Laprade. 1991. Geology of Seattle, Washington, United States of America. Bulletin of the Association of Engineering Geologists, Vol. XXVIII, No. 3, pp. 235-302.
- Herrera. 1999. Carkeek Park Sewer Overflow Evaluation of Alternatives. Prepared for Seattle Public Utilities by Herrera Environmental Consultants, Inc., Seattle, Washington. March 4, 1999.
- Herrera. 1998. Broadview Sewer Assessment Evaluation of Alternatives. Prepared for Seattle Public Utilities by Herrera Environmental Consultants, Inc., Seattle, Washington. April 23, 1998.
- U.S. Army Corps of Engineers, Seattle District. 1997. Post event report: winter storm of 1996-97 Federal Disaster DR 1159 Western Washington Summary. Prepared for the Federal Emergency Management Agency, Region X.
- Liesch, Bruce A., Charles E. Price, and Kenneth L. Walters. 1963. Geology and Ground-Water Resources of Northwestern King County, Washington. Water Supply Bulletin No. 20. U.S. Geological Survey, Ground Water Branch, and Washington State Division of Water Resources, Olympia, Washington.
- Seattle Engineering Department. 1979. City of Seattle 201 Facility Planning: Infiltration/Inflow Analysis Carkeek Park System.
- Seattle Public Utilities. 2005. Mainline Sewer Pipe Maintenance/Backup Strategy. June 2005.
- Seattle Public Utilities Materials Laboratory. 2005. Geotechnical Data Report-SeaStreet Post construction Hydrologic Study. August 25, 2005.
- Troost, Kathy Goetz, Derek B. Booth, Aeron P. Wisher, and Scott A. Shimel. 2005. The Geologic Map of Seattle – A Progress Report. U.S. Geological Survey Open-File Report 2005-1242. Available online from the USGS website:
[<http://geomaps.wr.usgs.gov/pacnw/100sea.html>](http://geomaps.wr.usgs.gov/pacnw/100sea.html).

APPENDIX A

SPU Operations and Maintenance

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-303	224-302	RMC	REPAIRS MADE BY CONTRACTOR	12/31/2000			Work completed under 2000 CIP rehab program. No existing RMC so one created on 1/30/01. u/s mh replaced with new m/h. Replace existing 6" with a new 8" diameter
225-209	225-210	FOAM	CHEMICAL FOAM FOR ROOTS	11/26/2003			FDU Applied 20lbs Product - u/s mh buried did with 225-210 to 225-209
225-049	225-060	FOAM	CHEMICAL FOAM FOR ROOTS	12/19/2003			FDU applied 20lbs Product
225-032	225-042	FOAM	CHEMICAL FOAM FOR ROOTS	12/19/2003			Direct Applied 40lbs Product
225-024	225-032	FOAM	CHEMICAL FOAM FOR ROOTS	12/19/2003	RTS		FDU Applied 20lbs Product
225-023	225-024	FOAM	CHEMICAL FOAM FOR ROOTS	12/19/2003			FDU applied 20lbs Product
224-308	224-311	FOAM	CHEMICAL FOAM FOR ROOTS	11/12/2003			FDU Applied 20 lbs Product
224-116	224-144	FOAM	CHEMICAL FOAM FOR ROOTS	11/12/2003			FDU applied 20 lbs Product
224-065	224-066	FOAM	CHEMICAL FOAM FOR ROOTS	10/23/2003	RTS		Direct Applied 20 lbs product
224-047	224-048	FOAM	CHEMICAL FOAM FOR ROOTS	4/14/2004	RTS		40 LB DA
218-203	224-046	FOAM	CHEMICAL FOAM FOR ROOTS	4/1/2004	RTS		20 LB FDU, Flappers Assist.
218-163	218-160	FOAM	CHEMICAL FOAM FOR ROOTS	9/5/2003	RTS		Direct Applied 20 lbs product
218-098	218-145		823 MAINTENANCE STANDBY	3/19/1998	DBU		Worked with jet to get these lines clean for tv inspection
224-094	224-159		815 CLEAN/REPAIR EQUIP/TOOLS	2/25/1997			LOST PICTURE AT OFFSET JOINT BROUGHT CAMERA BACK TO M/H RESET PIGTAIL AND SKIDS
225-212	225-211		551 FLOOD - 10522 N PARK AVE	12/3/2007			
224-337	224-331		551 FLOOD - 105 NW 105TH ST	11/15/2006			
224-148	224-150		551 FLOOD - 11543 PALATINE AVE N	12/5/2007			
224-145	224-201		551 FLOOD - 102 NW 115TH ST	12/5/2007			
224-043	224-044		551 INLET - 12223 4TH AVE NW	1/3/2008	POND	HEAVY	LIGHT
218-189	218-190		551 INLET - 1217 NW 126TH ST	3/29/2006			
218-096	218-097		551 INLET - 13015 12TH AVE NW	12/4/2007			
224-043	224-044		533 ROD DRAINAGE MAINLINE 224-043 224-044	1/15/2008	GRS/RTS	LIGHT	
225-033	225-043		516 JET CLEANING-DRAINAGE STRUCTURE	11/17/2006			
225-324	225-034		486 CCTV DEMAND RESPONSE-SEWER - 225-324 225-034	1/29/2008	RISE		
225-191	225-193		486 CCTV DEMAND RESPONSE-SEWER - 225-191 225-193	2/5/2008	ROOTS		
225-164	225-166		486 CCTV DEMAND RESPONSE-SEWER - 225-164 225-166	2/5/2008	RISE		
225-161	225-163		486 CCTV DEMAND RESPONSE-SEWER - 225-161 225-163	2/5/2008	RISE		
225-064	225-072		486 CCTV DEMAND RESPONSE-SEWER - 225-064 225-072	12/28/2007	RISE		
225-054	225-064		486 CCTV DEMAND RESPONSE-SEWER - 225-054 225-064	12/28/2007	RISE		
225-045	225-054		486 CCTV DEMAND RESPONSE-SEWER - 225-045 225-054	12/27/2007	RISE	LIGHT	
225-044	225-053		486 CCTV DEMAND RESPONSE-SEWER - 225-044 225-053	1/29/2008	RISE		
225-037	225-036		486 CCTV DEMAND RESPONSE-SEWER - 225-037 225-036	1/30/2008	RISE		
225-036	225-045		486 CCTV DEMAND RESPONSE-SEWER - 225-036 225-045	12/28/2007	RISE		
225-034	225-044		486 CCTV DEMAND RESPONSE-SEWER - 225-034 225-044	1/29/2008	RISE		
225-027	225-036		486 CCTV DEMAND RESPONSE-SEWER - 225-027 225-036	12/28/2007	BRKNPIPE	MEDIUM	
225-014	225-027		486 CCTV DEMAND RESPONSE-SEWER	4/16/2008			
225-011	225-324		486 CCTV DEMAND RESPONSE-SEWER - 225-011 225-324	1/29/2008	RISE		
224-411	224-412		486 CCTV DEMAND RESPONSE-SEWER 224-411 224-412	12/27/2007			
224-410	224-411		486 CCTV DEMAND RESPONSE-SEWER 224-410 224-411	12/27/2007			
224-331	224-330		486 CCTV DEMAND RESPONSE-SEWER 224-331 224-330	12/7/2007			
224-330	224-326		486 CCTV DEMAND RESPONSE-SEWER 224-330 224-326	12/7/2007			
224-329	224-331		486 CCTV DEMAND RESPONSE-SEWER 224-329 224-331	12/7/2007			
224-326	224-318		486 CCTV DEMAND RESPONSE-SEWER 224-326 224-318	12/7/2007			
224-326	224-318		486 CCTV DEMAND RESPONSE-SEWER 224-326 224-318	12/18/2007			
224-318	224-317		486 CCTV DEMAND RESPONSE-SEWER 224-318 224-317	12/7/2007			
224-317	224-316		486 CCTV DEMAND RESPONSE-SEWER 224-317 224-316	12/7/2007	GR/DB/RT	MEDIUM	
224-310	224-311		486 CCTV DEMAND RESPONSE-SEWER - 224-310 224-311	1/14/2008	BRKNPIPE	HEAVY	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-309	224-310	486	CCTV DEMAND RESPONSE-SEWER - 224-309 224-310		1/14/2008 RISE	LIGHT	
224-275	224-273	486	CCTV DEMAND RESPONSE-SEWER VERIFY 1ST CONN		2/27/2008		
224-202	224-203	486	CCTV DEMAND RESPONSE-SEWER - 224-202 224-203		1/11/2008 RISE		
224-201	224-202	486	CCTV DEMAND RESPONSE-SEWER - 224-201 224-202		1/11/2008 RISE		
224-201	224-197	486	CCTV DEMAND RESPONSE-SEWER - 224-201 224-197		2/26/2008 RISE	LIGHT	
224-145	224-201	486	CCTV DEMAND RESPONSE-SEWER - 224-145 224-201		1/11/2008 RISE	HEAVY	
224-136	224-134	486	CCTV DEMAND RESPONSE-SEWER		3/31/2008		
224-104	224-103	486	CCTV DEMAND RESPONSE-SEWER - 224-104 224-103		1/14/2008 RISE		
224-103	224-418	486	CCTV DEMAND RESPONSE-SEWER - 224-103 224-418		1/14/2008 ROOTS	LIGHT	
224-048	224-106	486	CCTV DEMAND RESPONSE-SEWER 224-048 224-106		10/24/2006		
224-042	224-104	486	CCTV DEMAND RESPONSE-SEWER - 224-042 224-104		1/10/2008 DEBRIS	HEAVY	
224-041	224-042	486	CCTV DEMAND RESPONSE-SEWER - 224-041 224-042		1/10/2008 RISE		
218-195	218-142	486	CCTV DEMAND RESPONSE-SEWER - 218-195 218-142		12/31/2007		
218-142	218-143	486	CCTV DEMAND RESPONSE-SEWER - 218-142 218-143		12/31/2007 RISE		
218-136	218-195	486	CCTV DEMAND RESPONSE-SEWER - 218-136 218-195		12/27/2007		
224-038	224-039	485	CCTV EMERGENCY RESPONSE-SEWER 224-038 224-039		11/9/2007		
218-174	218-198	485	BAC - 12630 6TH AV NW				
231-045	224-311	480	SEWER MAIN CCTV FORMULA BASED		5/21/2006		SPECIAL INSP DUE TO B/U AT 10434 8TH AVE NW MAXIMO W/O # 904488-1
231-045	224-311	480	SEWER MAIN CCTV FORMULA BASED		5/21/2006		
225-064	225-072	480	SEWER MAIN CCTV FORMULA BASED		12/28/2007		
225-054	225-064	480	SEWER MAIN CCTV FORMULA BASED		12/28/2007		
225-045	225-054	480	SEWER MAIN CCTV FORMULA BASED		12/27/2007		
225-036	225-045	480	SEWER MAIN CCTV FORMULA BASED		12/28/2007		
225-027	225-036	480	SEWER MAIN CCTV FORMULA BASED		12/28/2007		
225-012	225-011	480	SEWER MAIN CCTV FORMULA BASED 225-012 225-011		12/13/2007		special tv insp to verify s/s connection 12204 phinney ave north due to a b/u insp. house # 12204 phinney ave north. special insp for property owner to check sidesewer connection to m/l stub. plummrber says is broken. MAXIMO W/O # 798152
225-012	225-011	480	SEWER MAIN CCTV FORMULA BASED		12/13/2005		
225-010	225-011	480	SEWER MAIN CCTV FORMULA BASED				special tv insp to verify s/s connection 12204 phinney ave north due to a b/u insp. house # 12204 phinney ave north. special insp for property owner to check sidesewer connection to m/l stub. plummrber says is broken. maximo w/o #798152
225-010	225-011	480	SEWER MAIN CCTV FORMULA BASED		12/14/2005		
224-381	224-315	480	SEWER MAIN CCTV FORMULA BASED		12/20/2005		MWO 799122 inc. water too high at 31' from u/s maximo w/o # 799122-2
224-381	224-315	480	SEWER MAIN CCTV FORMULA BASED		10/18/2006		
224-381	224-315	480	SEWER MAIN CCTV FORMULA BASED - 224-381 224-315		10/18/2006		
224-313	224-381	480	SEWER MAIN CCTV FORMULA BASED		12/20/2005		
224-313	224-381	480	SEWER MAIN CCTV FORMULA BASED		10/18/2006		no access to mh 224-381 and 224-315 do unscheduled to run to the next mh that's our u/s mh maximo w/o # 1003941
224-313	224-381	480	SEWER MAIN CCTV FORMULA BASED 224-313 224-381		10/18/2006		
224-202	224-203	480	SEWER MAIN CCTV FORMULA BASED		1/11/2008		
224-201	224-202	480	SEWER MAIN CCTV FORMULA BASED		1/11/2008		
224-196	224-195	480	SEWER MAIN CCTV FORMULA BASED 224-196 224-195		7/19/2007 SAND	LIGHT	
224-196	224-195	480	SEWER MAIN CCTV FORMULA BASED		7/30/2007		MWO 799121
224-196	224-195	480	SEWER MAIN CCTV FORMULA BASED		7/30/2008		
224-145	224-201	480	SEWER MAIN CCTV FORMULA BASED		1/11/2008		
224-145	224-201	480	SEWER MAIN CCTV FORMULA BASED		1/11/2008		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-141	224-142		480 SEWER MAIN CCTV FORMULA BASED	6/21/2005			
224-048	224-106		480 SEWER MAIN CCTV FORMULA BASED	8/4/2005 UNK			SPEC.INSP.DUE TO A BACK UP AT 12021 3rd Ave NW. Private CCTV insp.revealed a broken s/s stub.□
							□
							special insp due to a b/u at 12021 3rd ave nw gravel at 310' from u/s mh
224-042	224-104		480 SEWER MAIN CCTV FORMULA BASED	1/10/2008			
218-195	218-142		480 SEWER MAIN CCTV FORMULA BASED	12/31/2008			
218-142	218-143		480 SEWER MAIN CCTV FORMULA BASED	12/31/2007			
218-136	218-195		480 SEWER MAIN CCTV FORMULA BASED	12/31/2007			
218-096	218-097		480 SEWER MAIN CCTV FORMULA BASED	6/13/2005			
							special insp due to a b/u at 13021 12th ave northwest□
							□
							Claim C-75151
218-096	218-097		480 SEWER MAIN CCTV FORMULA BASED	8/2/2005			
218-096	218-097		480 SEWER MAIN CCTV FORMULA BASED	8/3/2005			SPECIAL TV INSP. DUE TO A B/U AT ADDRESS 13018 12TH AVE NORTHWEST
218-070	218-096		480 SEWER MAIN CCTV FORMULA BASED	5/16/2005			special insp due to b/u 13021□
218-070	218-096		480 SEWER MAIN CCTV FORMULA BASED	6/15/2005			special insp due to a b/u at 13021 12th ave nw and claim # c-75151
225-180	225-183		476 CNTRCTR - WW REHAB DIG SPOT - 225-180 225-183				
224-381	224-315		471 WASTEWATER REHAB (DEEP) 224-381 224-315				
224-312	224-313		471 WASTEWATER REHAB (DEEP) 224-312 224-313				
224-312	224-313		471 WASTEWATER REHAB (DEEP) 224-312 224-313				
225-064	225-072		470 WASTEWATER REHAB (SHALLOW) 225-064 225-072	4/22/2008			
225-027	225-036		470 WASTEWATER REHAB (SHALLOW) 225-027 225-036	4/15/2008			
225-027	225-036		470 WASTEWATER REHAB (SHALLOW) 225-054 225-064	4/16/2008			
225-027	225-036		470 WASTEWATER REHAB (SHALLOW) 225-054 225-064	4/17/2008			
225-014	225-027		470 WASTEWATER REHAB (SHALLOW) 225-054 225-064				
224-343	224-345		470 WASTEWATER REHAB (SHALLOW)	7/20/2004 REP			REPAIR MAIN LINE FROM M/H 224-345.U/S AT 119' TO 122' SEE S/S CARD & TV-REPAIR□
							□
							moved into new job 7/19/04□
							□
							□
							sketch 04-166
224-309	224-310		470 WASTEWATER REHAB (SHALLOW) 224-309 224-310				
224-309	224-310		470 WASTEWATER REHAB (SHALLOW) 224-309 224-310				
224-172	224-171		470 WASTEWATER REHAB (SHALLOW)	2/1/2005			backfill w/ chips - native soil & topsoil. □
							□
							□
							should've been charged to original w/o #410842
224-171	224-165		470 WASTEWATER REHAB (SHALLOW)	1/31/2005			repaired broken 8" conc. pipe - secure, still requires chips & restoration.□
							□
							sketch 05-030
224-111	224-118		470 WASTEWATER REHAB (SHALLOW)	9/28/2005			Best Plumbing repaired side sewer for 11736 Palatine Av N (located 62 ft from DSMH) and reports broken wye on mainline. CCTV report from 2001 shows broken wye but no w/o made for repair. Best has temped the side sewer into main - need to repair connecti

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-048	224-106		470 WASTEWATER REHAB (SHALLOW) 224-048 224-106				
224-048	224-106		470 WASTEWATER REHAB (SHALLOW) 224-048 224-106				
225-307	225-193		450 OTHER MAINTENANCE - WASTEWATER	2/13/2001 LOC			unable to locate m/h 225-193, s/s shows m/h. map shows m/h 225-193 "T" into m/h w/o evanston ave n
225-307	225-193		450 OTHER MAINTENANCE - WASTEWATER	3/7/2001 MHA			expose, raise, backfill m/h 225-307
225-307	225-193		450 OTHER MAINTENANCE - WASTEWATER	3/7/2001 MHA			exposed & raised m/h 225-307
225-218	225-217		450 OTHER MAINTENANCE - WASTEWATER	2/13/2001 LOC			m/h located in alley e/o north park ave n. m/h located & exposed, need riser ring
225-218	225-217		450 OTHER MAINTENANCE - WASTEWATER	2/22/2001 LOC			located, uncovered m/h, installed 5" riser ring and compacted soil around m/h, painted
225-218	225-217		450 OTHER MAINTENANCE - WASTEWATER	8/22/2005 ODR	NF		10511 Linden Ave N; check m/l in alley, around entire area no smell of sewer. no one home, left door hanger.
225-215	225-216		450 OTHER MAINTENANCE - WASTEWATER	7/11/2000 LOC			measured d/s & located, exposed & dug out - complete
225-211	225-216		450 OTHER MAINTENANCE - WASTEWATER	5/25/2000			NO M/H IN PROPOSED CIRCLE
225-201	225-202		450 OTHER MAINTENANCE - WASTEWATER	10/17/2001 LOC			located, uncovered and painted 5 maintenance holes for jet-vac maintenance.
225-201	225-202		450 OTHER MAINTENANCE - WASTEWATER	6/10/2005 LOC			LOCATE AND EXPOSE M/H IN ORDER TO COMPLETE W/O# 396745
225-199	225-200		450 OTHER MAINTENANCE - WASTEWATER	6/10/2005 LOC			LOCATE AND EXPOSE M/H IN ORDER TO COMPLETE W/O# 396744
225-197	225-204		450 OTHER MAINTENANCE - WASTEWATER	3/19/1999 MHC			11026 FREMONT AVE N; SECURE LOOSE M/H (225-197) TEMP WITH MC-250 FOR FUTURE REPAIR, LEFT 2 CONES 2-5LB BUCKETS
225-197	225-204		450 OTHER MAINTENANCE - WASTEWATER	4/2/1999			DUG AROUND OLD CASTING AND PUT NEW CASTIN HAD TO USE DRAINAGE LID DIDNT HAVE SEWER LID IN STOCK
225-197	225-204		450 OTHER MAINTENANCE - WASTEWATER	6/27/2000			performed confined space entry on m/h 225-197 to remove concrete from line
225-195	225-194		450 OTHER MAINTENANCE - WASTEWATER	4/6/1999			DYED VOID NO SHOW REFERRED TO TRANSPORTATION
225-194	225-075		450 OTHER MAINTENANCE - WASTEWATER	6/8/2000			DYE VOID - WOULD NOT TAKE MUCH WATER - COMPLETE
225-190	225-192		450 OTHER MAINTENANCE - WASTEWATER	2/13/2001			m/h 225-190 is a lamphole, marked and exposed. m/h 225-192 marked, raised & exposed.
225-187	225-308		450 OTHER MAINTENANCE - WASTEWATER	2/13/2001 LOC			located & exposed m/h 225-187
225-180	225-183		450 OTHER MAINTENANCE - WASTEWATER	2/18/2005 BAR			set no parks
225-180	225-183		450 OTHER MAINTENANCE - WASTEWATER	2/22/2005 BAR			pick up no parks
225-171	225-173		450 OTHER MAINTENANCE - WASTEWATER	2/14/2001			excavated 1' by hand, expose m/h 225-171 10"
225-168	225-170		450 OTHER MAINTENANCE - WASTEWATER	9/13/1999			went to site to find out who the general contractor was for a previous core tap.
225-156	225-168		450 OTHER MAINTENANCE - WASTEWATER	6/15/2000 BAR			set no parks for 6/20/00
225-150	225-156		450 OTHER MAINTENANCE - WASTEWATER	11/10/1999			unable to find cover missing or off at this time
225-068	225-076		450 OTHER MAINTENANCE - WASTEWATER	1/31/2001 LOC			locate and expose m/h 225-068
225-055	225-054		450 OTHER MAINTENANCE - WASTEWATER	11/15/2002 LOC			LOCATE L/H ON ATTACHED REPORT OF SEWER DEFECT SHEET. THEN TV
225-046	225-057		450 OTHER MAINTENANCE - WASTEWATER	6/4/1997 NF			DYED VOID - NO DYE SHOWED IN SEWER OR DRAIN - VOID OVER WATER MAIN
225-037	225-036		450 OTHER MAINTENANCE - WASTEWATER	11/15/2002 LOC			LOCATE L/H, SEE ATTACHED REPORT OF SEWER DEFECT □
							10/31 INCOMPLETE □
							(11/15/02) L/H locating, covered w/ MC 250

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
225-035	225-036		450 OTHER MAINTENANCE - WASTEWATER		11/15/2002 LOC		LOCATE L/H, SEE, ATTACHED REPORT OF SEWER DEFECT SHEET
225-023	225-024		450 OTHER MAINTENANCE - WASTEWATER		12/10/2001		trying to expose m/h 225-024
225-023	225-024		450 OTHER MAINTENANCE - WASTEWATER		12/12/2001		need to finish chopping buck stickers
225-023	225-024		450 OTHER MAINTENANCE - WASTEWATER		12/19/2001 LOC		CLEAR DBR TO LOC M/H 225-024
225-006	225-023		450 OTHER MAINTENANCE - WASTEWATER		11/20/2004		structure need to be located
224-413	224-093		450 OTHER MAINTENANCE - WASTEWATER		5/26/1998 MISC		ATTEMPTED TO TAKE TWO SLOPE MEASUREMENTS FOR CONTRACTOR, UNABLE TO DO SO WITH INFO GIVEN.
224-413	224-093		450 OTHER MAINTENANCE - WASTEWATER		6/5/1998 LOC		@ 11700 9th ave nw; see report on crew sheet
224-411	224-412		450 OTHER MAINTENANCE - WASTEWATER		6/22/2005		void located next to m/h # 224-411 dyed void dye showed thru lift hole in precast m/h section hole needs to be mudded off
224-411	224-412		450 OTHER MAINTENANCE - WASTEWATER		6/23/2005		CSE set up - patch joint & lift holes - dye tested void, still dye coming in from joint.
224-411	224-412		450 OTHER MAINTENANCE - WASTEWATER		9/15/2005 CVO		11718 9th ave nw; void is causing pavement to collapse around m/h. need dye test/tv at the same time.
224-381	224-315		450 OTHER MAINTENANCE - WASTEWATER		4/23/2003 LOC		locate m/h's, request m/l jetted, help trk 128.
224-343	224-345		450 OTHER MAINTENANCE - WASTEWATER		8/18/1998 RC		
224-342	224-343		450 OTHER MAINTENANCE - WASTEWATER		7/21/1998 LOC		
224-342	224-343		450 OTHER MAINTENANCE - WASTEWATER		6/16/2000 BAR		
224-341	224-337		450 OTHER MAINTENANCE - WASTEWATER		11/20/1998		
224-331	224-330		450 OTHER MAINTENANCE - WASTEWATER		1/1/1997 STORM		pick up no parks
224-331	224-330		450 OTHER MAINTENANCE - WASTEWATER		1/1/1997 STORM		DITCH HAS BEEN CLEANED.
224-331	224-330		450 OTHER MAINTENANCE - WASTEWATER		1/2/1997 STORM		PUMP & BY PASS
224-331	224-330		450 OTHER MAINTENANCE - WASTEWATER		1/2/1997 STORM		PUMP & BYPASS NW 105TH & 2ND NW
224-331	224-330		450 OTHER MAINTENANCE - WASTEWATER		1/2/1997 STORM		CSE; REMOVE HOSES; CLEAN UP FROM PUMP & PASS
224-331	224-330		450 OTHER MAINTENANCE - WASTEWATER		1/2/1997 STORM		PUMP & BY-PASS 10 IN. M/L SEWER DUE TO SURCHARGE
224-331	224-330		450 OTHER MAINTENANCE - WASTEWATER		1/2/1997 STORM		
224-330	224-326		450 OTHER MAINTENANCE - WASTEWATER		1/2/1997		CSE; REMOVE DISCHARGE HOSE
224-328	224-329		450 OTHER MAINTENANCE - WASTEWATER		7/20/1998 CVO		DYED VOID, NEGATIVE RESULTS
224-324	224-323		450 OTHER MAINTENANCE - WASTEWATER		3/28/2001 LOC		m/h 224-324; drilled 6", did not hit lid, need 90lb jack & compressor
224-324	224-323		450 OTHER MAINTENANCE - WASTEWATER		4/9/2002		try to jack hammer lamp hole, is about 1 foot deep.
224-321	224-320		450 OTHER MAINTENANCE - WASTEWATER		7/13/2000 LOC		DELIVER BACKHOE TO REPAIR CREW
224-321	224-320		450 OTHER MAINTENANCE - WASTEWATER		7/20/2000		
224-313	224-381		450 OTHER MAINTENANCE - WASTEWATER		5/25/2000		CLEAR SHRUBS & BUSHES FROM M/H 224-303
224-303	224-302		450 OTHER MAINTENANCE - WASTEWATER		2/19/1999		LOCATE AND EXPOSE OLD PVC REPAIR,RETRIEVE MINICAM WITH HANDRODS
224-303	224-302		450 OTHER MAINTENANCE - WASTEWATER		2/23/1999		locating d/s m/l for tv insp. - incomplete
224-303	224-302		450 OTHER MAINTENANCE - WASTEWATER		9/23/1999		locating d/s m/c for tv insp. - incomplete
224-303	224-302		450 OTHER MAINTENANCE - WASTEWATER		9/24/1999 LOC		locate m/h on trail in carkeek park
224-293	224-286		450 OTHER MAINTENANCE - WASTEWATER		2/14/1997		
224-293	224-286		450 OTHER MAINTENANCE - WASTEWATER		12/2/1999 CVO	NO SHOW	our m/l ok, this is a side sewer problem. homeowner needs to fix.
224-290	224-289		450 OTHER MAINTENANCE - WASTEWATER		8/20/2002	SHOWED	10745 11th ave nw; dye showed under casting
224-290	224-289		450 OTHER MAINTENANCE - WASTEWATER		8/21/2002		patch hole; 10739 11th ave nw
224-286	224-285		450 OTHER MAINTENANCE - WASTEWATER		2/14/1997		CHECKED FOR SEWER SPILLAGE NEAR TRAIL
224-286	224-285		450 OTHER MAINTENANCE - WASTEWATER		2/14/1997		CHECKED FOR SEWER SPILLAGE NEAR TRAIL
224-285	224-172		450 OTHER MAINTENANCE - WASTEWATER		2/14/1997		CHECKED FOR SEWER SPILLAGE NEAR TRAIL

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	SEVERITY	COMMENTS
COMPDTM						
224-284	224-297	450 OTHER MAINTENANCE - WASTEWATER		10/25/2005 CVO	NO SHOW	933 NW 105th; dye tested voiding on gas valves, positive at the culvert drn. neg in the sewer line.
224-247	224-342	450 OTHER MAINTENANCE - WASTEWATER		8/7/2002 LOC		locate, marked & exposed m/h 224-342
224-242	224-332	450 OTHER MAINTENANCE - WASTEWATER		4/22/2004	RES	Deliver M/H casting & Cover to paving Contractor.
224-237	224-236	450 OTHER MAINTENANCE - WASTEWATER		3/8/2001 MHA		EXPOSED & RAISED D/E M/H 224-237
224-235	224-229	450 OTHER MAINTENANCE - WASTEWATER		3/28/2001		m/h 224-235 drilled 6" did not hit lid, need 90lb jack hammer & compressor
224-235	224-229	450 OTHER MAINTENANCE - WASTEWATER		4/9/2002		try to jack hammer lamp hole
224-234	224-236	450 OTHER MAINTENANCE - WASTEWATER		3/9/2001		pick up cones, roll asphalt around clean out.
224-228	224-226	450 OTHER MAINTENANCE - WASTEWATER		7/5/2001 LOC		locate & expose m/h #226, buried in chip seal.
224-227	224-320	450 OTHER MAINTENANCE - WASTEWATER		7/5/2001 LOC		attempt to locate, but suspect there is no m/h or lamphole. opposite end of line had no m/h or lamphole. map also does not show as m/h. amde a repair at other end of line and dug up only a capped "Y". (1 year ago).
224-216	224-215	450 OTHER MAINTENANCE - WASTEWATER		3/16/2000		unable to locate m/h 224-216; measured out 219', still not there - maybe could t v up line and get right measurement.
224-216	224-215	450 OTHER MAINTENANCE - WASTEWATER		5/19/2000		m/h's not there - it's a stub (6" pipe) also patch holes
224-216	224-215	450 OTHER MAINTENANCE - WASTEWATER		3/29/2002 LOC		DYED OUT VOID, CHECKED M/L, SET UP CONES & BARRICADE, DYE DID NOT SHOW AT THIS TIME.
224-215	224-214	450 OTHER MAINTENANCE - WASTEWATER		10/2/1998 CVO		located m/h 224-216, 215, 214 for hydrocut - needs to be raised about 1 to 1 1/2". need asphalt overlay - need compressor
224-215	224-214	450 OTHER MAINTENANCE - WASTEWATER		3/15/2000		located m/h 224-215 and painted green, needs to be raised about 1 1/2 to 2"
224-215	224-214	450 OTHER MAINTENANCE - WASTEWATER		3/16/2000 LOC		m/h buried under asphalt, need compressor - incomplete
224-215	224-214	450 OTHER MAINTENANCE - WASTEWATER		3/21/2000		11/15/00: located & marked MH - need compressor to break out LH to the east
224-215	224-214	450 OTHER MAINTENANCE - WASTEWATER		11/15/2000		found m/h's 224-215 and 214
224-215	224-214	450 OTHER MAINTENANCE - WASTEWATER		3/27/2002 LOC		expose m/h, needs replacing
224-215	224-214	450 OTHER MAINTENANCE - WASTEWATER		3/29/2002 LOC		exposed & raise two m/h & backfill with mc 250
224-215	224-214	450 OTHER MAINTENANCE - WASTEWATER		4/9/2002		re-set riser ring & put mc-250 around m/h 224-215
224-214	224-213	450 OTHER MAINTENANCE - WASTEWATER		4/25/2002 RC		DYED VOID, NEGATIVE RESULTS
224-214	224-213	450 OTHER MAINTENANCE - WASTEWATER		7/20/1998 CVO		locate m/h 224-214 and painted green, needs to be raised about 2"
224-214	224-213	450 OTHER MAINTENANCE - WASTEWATER		3/16/2000 LOC		found m/h's 224-214 and 213
224-214	224-213	450 OTHER MAINTENANCE - WASTEWATER		3/27/2002 LOC		expose m/h, needs replacing
224-209	224-246	450 OTHER MAINTENANCE - WASTEWATER		3/29/2002 LOC		located & expose m/h 224-209 & 224-246
224-198	224-199	450 OTHER MAINTENANCE - WASTEWATER		3/17/2000 LOC		located lamphole and m/h
224-197	224-356	450 OTHER MAINTENANCE - WASTEWATER		3/14/2002 LOC		LOCATED U/S M/H EXPOSED AND PAINTED
224-196	224-195	450 OTHER MAINTENANCE - WASTEWATER		1/26/1999 LOC		put out traffic cone devices around m/h and look at jobsite for future casting replacement
224-196	224-195	450 OTHER MAINTENANCE - WASTEWATER		9/1/1999		REPLACE CASTING M/H 224-196, BACKFILLED WITH ROCK AND MC 250
224-189	224-181	450 OTHER MAINTENANCE - WASTEWATER		9/3/1999 RC		removed trailer from top of m/h and removed lid - cleaned seat and put cat litter on top of lid, put new plastic down and put small amount of dirt on top then another bag of cat litter and then more dirt, etc. walk up trail and checked the 2 m/h's on tra
224-172	224-171	450 OTHER MAINTENANCE - WASTEWATER		4/12/2000		SET OUT NO PARKS
224-171	224-165	450 OTHER MAINTENANCE - WASTEWATER		7/26/2000		CHECKED FOR SEWER SPILLAGE NEAR TRAIL
				2/14/1997		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-171	224-165		450 OTHER MAINTENANCE - WASTEWATER		3/2/1999		IN LINE WITH 9TH NW & NW 112TH - CUT DOWN BRUSH, LAY OUT PLASTIC, ALSO CLEAN UP MUD & ASSIST VACTOR CREW, CHECK AREA
224-171	224-165		450 OTHER MAINTENANCE - WASTEWATER		6/27/2001 UNB		attempted to locate m/h for rodder. will need to try again. conditions wet and muddy.
224-171	224-165		450 OTHER MAINTENANCE - WASTEWATER		6/28/2001 LOC		located m/h 224-165 to 171. need t.v. the line before rodding, possible broken pipe.
224-171	224-165		450 OTHER MAINTENANCE - WASTEWATER		8/8/2005 LOC		locate, expose and paint maint. holes 224-168??? and 224-171.
224-158	224-159		450 OTHER MAINTENANCE - WASTEWATER		12/17/1999		prepared for pump & bypass. prepared m/h for flex valve, rain came 16" line surcharged, had to pull out. incomplete
224-158	224-159		450 OTHER MAINTENANCE - WASTEWATER		12/27/1999		confined space entry, installed flap gate
224-148	224-150		450 OTHER MAINTENANCE - WASTEWATER		3/17/2000		replace casting & lid m/h 0224-148; with new casting & lid backfilled with rock need asphalt - complete
224-147	224-204		450 OTHER MAINTENANCE - WASTEWATER		3/16/2001 LOC		locate, expose & marked m/h 224-147
224-146	224-147		450 OTHER MAINTENANCE - WASTEWATER		12/17/1999 MHC		replaced broken lid
224-146	224-147		450 OTHER MAINTENANCE - WASTEWATER		3/14/2002 LOC		located and uncovered (wrote m/h's 224-147 to 224-117 on paperwork, actual run is 117 to 146, 146 to 147)
224-141	224-142		450 OTHER MAINTENANCE - WASTEWATER		6/17/2005 CVO	NO SHOW	11617 2nd ave nw; add water to void to see if dye showed d/s - no.
224-141	224-142		450 OTHER MAINTENANCE - WASTEWATER		6/21/2005		dye test void 25' from u/s m/h to west negative
224-135	224-134		450 OTHER MAINTENANCE - WASTEWATER		3/3/1999		ESMT W/O 12TH AVE NW 4TH M/H S/O NW 117TH; M/H SURCHARGED NEED TO WASH DOWN & DO CSE TOMORROW
224-135	224-134		450 OTHER MAINTENANCE - WASTEWATER		3/4/1999		ESMT W/O 12TH NW - 4TH NW M/H S/O 117TH; ASSIST 128 AT LOC, ALSO REMOVE DEBRIS FROM M/H
224-135	224-134		450 OTHER MAINTENANCE - WASTEWATER		1/3/2002 LOC		
224-133	224-132		450 OTHER MAINTENANCE - WASTEWATER		12/16/2002		dye out void near MH, dye did infiltrate thr bricks bu not in ML
224-130	224-129		450 OTHER MAINTENANCE - WASTEWATER		10/8/2003		
224-129	224-127		450 OTHER MAINTENANCE - WASTEWATER		6/7/2001		11501 4th ave nw - referred from off hours shift.; drain line approx. 2' does not appear to be city's, plug w/ dirt & cement that appears to have been draining over hillside. placing a drain box would help. referred to drainage c-15.
224-125	224-124		450 OTHER MAINTENANCE - WASTEWATER		3/10/1999 BAR		PICK UP BARRICADE & CONE
224-111	224-118		450 OTHER MAINTENANCE - WASTEWATER		10/9/2005		11736 PALATINE AV N: PICK UP 4 BARRICADES AND BRING THEM TO HALLER LAKE
224-110	224-109		450 OTHER MAINTENANCE - WASTEWATER		3/16/2001		m/h 224-110; dead end m/h, need to talk to the owner in order to expose.
224-108	224-116		450 OTHER MAINTENANCE - WASTEWATER		1/3/2002 LOC		m/h 224-093; removed 2 rocks from channel, unable to tell if surcharged
224-093	224-094		450 OTHER MAINTENANCE - WASTEWATER		2/3/2000		11617 12th ave nw; pump & bypass
224-084	224-085		450 OTHER MAINTENANCE - WASTEWATER		12/10/1999		m/h 224-084; looks like this m/h has been surcharged about 4'- bottom 2 rungs have toilet paper around them
224-084	224-085		450 OTHER MAINTENANCE - WASTEWATER		2/3/2000		pump & bypass
224-083	224-084		450 OTHER MAINTENANCE - WASTEWATER		12/27/1999		LOCATED M/H MARKED IN WHITE
224-082	224-154		450 OTHER MAINTENANCE - WASTEWATER		7/14/1999 LOC		measured to locate m/h's 063 & 064. need locator and jack hammer.
224-063	224-064		450 OTHER MAINTENANCE - WASTEWATER		3/14/2001		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
224-063	224-064		450 OTHER MAINTENANCE - WASTEWATER		3/16/2001 LOC		m/h 224-063 is lamp hole 18' from property line. marked & located. m/h 224-064 locate, expose, marked, put m/c 250 around m/h.
224-056	224-057		450 OTHER MAINTENANCE - WASTEWATER		9/10/1997 MISC		TOOK MEASUREMENT FOR NEW LID - NEEDS TO BE EITHER RAISED OR HAVE A NEW RISER PUT IN
224-056	224-057		450 OTHER MAINTENANCE - WASTEWATER		7/13/1999		replace m/h 224-056
224-054	224-053		450 OTHER MAINTENANCE - WASTEWATER		3/14/2002 LOC		located lamphole m/h 224-054
224-050	224-051		450 OTHER MAINTENANCE - WASTEWATER		5/23/2000		
224-048	224-106		450 OTHER MAINTENANCE - WASTEWATER		10/21/1999 RC		replace worn casting, backfilled with rock and mc 250
224-048	224-106		450 OTHER MAINTENANCE - WASTEWATER		8/9/2005		no parked u/s mh for night crew need traffic control for this location
224-046	224-047		450 OTHER MAINTENANCE - WASTEWATER		5/25/2000		REPLACED OLD CASTING AND LID WITH NEW CASTING AND LID - BACK FILLED WITH ROCK AND MC250
224-043	224-044		450 OTHER MAINTENANCE - WASTEWATER		7/20/1998 CVO		NO SHOW AT D/S. NEED TV INSP.
224-038	224-039		450 OTHER MAINTENANCE - WASTEWATER		9/16/1998 BAR		12200 7th ave NW; place no parks for r/c. complications, but no parks are set.
224-033	224-034		450 OTHER MAINTENANCE - WASTEWATER		3/9/2001		raise m/h & backfill, 9 radial bricks, 1/2 bag mortar
224-033	224-034		450 OTHER MAINTENANCE - WASTEWATER		3/9/2001 MHA		raised & exposed m/h 224-033, backfilled with mc250
224-005	224-003		450 OTHER MAINTENANCE - WASTEWATER		12/1/1998 MHC		CHECKED FOR M/H LID OFF, FOUND LID RAISED A LITTLE. REPLACED LID 224-003 M/H#.
224-004	224-009		450 OTHER MAINTENANCE - WASTEWATER		7/20/1999		M/H 224-004; CUT PATH TO M/H - WAS UNABLE TO LOCATE FOR SLIDE AREA - UNDER TO MUCH DIRT - WAS TOLD TO FORGET ABOUT LOCATING M/H, WENT TO TOP AND TOOK PICTURES
219-383	219-240		450 OTHER MAINTENANCE - WASTEWATER		7/23/1998 CVO		DYE TEST, DYE SHOWN FN DRAIN PIPE E/M OF GREENWOOD
219-324	219-325		450 OTHER MAINTENANCE - WASTEWATER		6/7/2001 BAR		pick up no parks at 125th & greenwood and at 32nd ave ne
219-324	219-325		450 OTHER MAINTENANCE - WASTEWATER		4/15/2003 LOC		located & exposed m/h's.
219-269	219-277		450 OTHER MAINTENANCE - WASTEWATER		6/9/2000 CVO	NO SHOW	909 n. 130th; dye out void, neg. show, call for c-10 to contact city light, neg. show in vault, bar down, hit conduct, stand by for city light.
219-254	219-258		450 OTHER MAINTENANCE - WASTEWATER		1/21/1997		WASHED DOWN M/H DUE TO B/U
219-254	219-258		450 OTHER MAINTENANCE - WASTEWATER		12/4/1998 CVO	NO SHOW	VOID DOES NOT SHOW
219-253	219-254		450 OTHER MAINTENANCE - WASTEWATER		8/3/1998 UNB		UNABLE TO LOC MISSING MH REPORTED BY CUSTOMER
219-242	219-327		450 OTHER MAINTENANCE - WASTEWATER		5/24/2000		PHINNEY AVE W AND W 127TH ST
219-242	219-327		450 OTHER MAINTENANCE - WASTEWATER		5/31/2000		marked out - work not yet started
219-242	219-327		450 OTHER MAINTENANCE - WASTEWATER		6/13/2000		raised up 16" lid
219-242	219-327		450 OTHER MAINTENANCE - WASTEWATER		12/20/2000 MHA		raised m/h 3 raisers to grade
219-241	219-242		450 OTHER MAINTENANCE - WASTEWATER		12/27/2000 MHA		2 no parks for rodger 5/25-29/01 only
219-240	219-324		450 OTHER MAINTENANCE - WASTEWATER		5/24/2001 BAR		remarked 2 no parks on e/s, dated 6/4 through 6/6/01
219-240	219-324		450 OTHER MAINTENANCE - WASTEWATER		5/31/2001 BAR		defect to p/u no parks, no no parks to be found
219-240	219-324		450 OTHER MAINTENANCE - WASTEWATER		6/8/2001		located & exposed m/h's.
219-240	219-324		450 OTHER MAINTENANCE - WASTEWATER		4/15/2003 LOC		located & exposed m/h's. need to tv m/h 238
219-239	219-383		450 OTHER MAINTENANCE - WASTEWATER		4/15/2003 LOC		PUT OUT THREE NO PARKS FOR JET CLEANING
219-238	219-239		450 OTHER MAINTENANCE - WASTEWATER		3/1/1999 BAR		sent out to pick up no parks - no signs at site.
219-238	219-239		450 OTHER MAINTENANCE - WASTEWATER		5/10/2001 BAR		located & exposed m/h's. need to tv m/h 238; assisted by trk 3652
219-238	219-239		450 OTHER MAINTENANCE - WASTEWATER		4/15/2003 LOC		located u/s m/h in playfield to s/s card 219-179
219-179	219-180		450 OTHER MAINTENANCE - WASTEWATER		11/16/1999 LOC		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTM	PROBLEM FOUND	SEVERITY	COMMENTS
219-179	219-180	450 OTHER MAINTENANCE - WASTEWATER		2/11/2000			raise m/h's & coordinate w/ parks
219-178	219-179	450 OTHER MAINTENANCE - WASTEWATER		11/12/1999			not enough time to expose it.
219-178	219-179	450 OTHER MAINTENANCE - WASTEWATER		2/11/2000			this run will need m/h's exposed in late spring, early summer after seed has gotten established and turf dries and hardens
218-227	218-132	450 OTHER MAINTENANCE - WASTEWATER		1/15/1997 MISC			PICKED UP BARRICADES
218-201	224-043	450 OTHER MAINTENANCE - WASTEWATER		8/17/1998 LOC			m/h needs raising at least 2".
218-201	224-043	450 OTHER MAINTENANCE - WASTEWATER		7/6/2001 MHA			expose & raise m/h 218-201. replace with 26" casting & lid. 1/2 bag of mortar.
218-196	224-037	450 OTHER MAINTENANCE - WASTEWATER		5/11/2001	NF		709 nw 125th; home owner Mr. Miner was told by water that his sewer ran in front of his property to nw 125th st, that was causing depression in his lawn. noticed 2 days ago. called someone to snake his drain line in driveway that was ponding. ok at this t
218-196	224-037	450 OTHER MAINTENANCE - WASTEWATER		5/15/2001			709 nw 125th; been to this address on friday & spoke to homeowner Mr. Miner and gave him copy of s/s card. s/s goes out back.
218-188	218-226	450 OTHER MAINTENANCE - WASTEWATER		11/20/1998			CLEANED TWO INLETS ON THE S/E/C. RELIEVING PONDING
218-182	218-208	450 OTHER MAINTENANCE - WASTEWATER		2/14/2001 LOC			m/h 218-182 has been exposed & marked with paint.
218-176	218-202	450 OTHER MAINTENANCE - WASTEWATER		6/2/1998 MHA			RAISED MHs IN TRAFFIC CIRCLES
218-171	218-172	450 OTHER MAINTENANCE - WASTEWATER		11/21/1997 MISC			PUT CORKS IN PICK HOLE FOR DEPRESSED M/H
218-169	224-033	450 OTHER MAINTENANCE - WASTEWATER		3/16/2001 RC			m/h 218-169; break out, expose casting and replace. back fill with rock, asphalt.
218-168	218-169	450 OTHER MAINTENANCE - WASTEWATER		11/21/1997 MISC			PUT CORKS IN PICK HOLE FOR DEPRESSED M/H
218-167	218-168	450 OTHER MAINTENANCE - WASTEWATER		3/16/2001 RC			m/h 218-167; break out, expose casting and replace. back fill with rock, asphalt.
218-161	224-026	450 OTHER MAINTENANCE - WASTEWATER		7/22/1997 NF			VOID - DYED OUT, NO DYE SHOWED
218-156	218-155	450 OTHER MAINTENANCE - WASTEWATER		12/26/2001			incl 405; working on w/o 322173
218-154	218-155	450 OTHER MAINTENANCE - WASTEWATER		7/6/2001 LOC			locate & expose m/h 218-154, buried under gravel driveway.
218-145	218-144	450 OTHER MAINTENANCE - WASTEWATER		12/6/1999 CVO	SHOWED		12724 12TH AVE NW; PERFORMED DYE TEST IN VOID. IT SHOWED IN THE LIT WITHIN ONE MINUTE. LINE NEEDS TO BE TV INSPECTED FOR POSSIBLE REPAIR
218-133	218-094	450 OTHER MAINTENANCE - WASTEWATER		5/18/2000			N 132ND AND GREENWOOD AVE N ; PLACED RAPO AND CONES AROUND M/H. RISER RING IS LOOSE. IT LOOKS LKE ONE OF THE RINGS BROKE AND FELL IN. CASTING AND LID NEEDS TO BE REPLACED. RISER RING NEEDS TO BE REMOVED FROM CHANNEL AND LINE NEEDS TO BE JETTED.
218-131	218-130	450 OTHER MAINTENANCE - WASTEWATER		8/3/1998 LOC			LOC, EXP, PAINTED
218-131	218-130	450 OTHER MAINTENANCE - WASTEWATER		8/3/1998 LOC			Raise M/H casting.
218-127	218-126	450 OTHER MAINTENANCE - WASTEWATER		10/27/2000			replace casting - mc new casting and replace cover.
218-127	218-126	450 OTHER MAINTENANCE - WASTEWATER		6/3/2002 RC			located & exposed m/h 218-181, was buried by st. maintenance.
218-126	218-181	450 OTHER MAINTENANCE - WASTEWATER		6/20/2000 LOC			w/ jack hammer, m/h 228-126 below st. surface 3 - 4", need to raise casting up ASAP, got 2 cones on top of it now.
218-125	218-126	450 OTHER MAINTENANCE - WASTEWATER		7/6/2001 LOC			locate m/h 218-125, lamphole.
218-122	218-121	450 OTHER MAINTENANCE - WASTEWATER		5/22/2000			TRIED TO LOCATE U/S M/H USED LOCATOR ALONG W/ MEASUREMENTS. CANNOT LOCATE
218-122	218-121	450 OTHER MAINTENANCE - WASTEWATER		5/23/2000			PUT CORKS IN PICK HOLE FOR DEPRESSED M/H
218-120	218-119	450 OTHER MAINTENANCE - WASTEWATER		11/21/1997 MISC			

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
218-119	218-175		450 OTHER MAINTENANCE - WASTEWATER		11/21/1997 MISC		PUT CORKS IN PICK HOLE FOR DEPRESSED AREA
218-114	218-113		450 OTHER MAINTENANCE - WASTEWATER		11/21/1997 MISC		PUT CORKS IN PICK HOLE FOR DEPRESSED M/H
218-113	218-167		450 OTHER MAINTENANCE - WASTEWATER		11/21/1997 MISC		PUT CORKS IN PICK HOLE FOR DEPRESSED M/H
218-109	218-106		450 OTHER MAINTENANCE - WASTEWATER		1/24/2005		void dye test a void dye show on c/b beside
218-108	218-107		450 OTHER MAINTENANCE - WASTEWATER		9/25/2001 MISC		823 nw 132nd; located lamphole, dyed m/l, dye showed in d/s m/h, notified homeowner.
218-108	218-107		450 OTHER MAINTENANCE - WASTEWATER		10/15/2002 LOC		attempted to locate the m/h. - incomplete.
218-108	218-107		450 OTHER MAINTENANCE - WASTEWATER		11/15/2002		locate lamphole and painted
218-105	218-104		450 OTHER MAINTENANCE - WASTEWATER		12/16/1999		
218-097	218-098		450 OTHER MAINTENANCE - WASTEWATER		7/8/1998 MISC		@ 13003 12th ave nw, water dept is doing some work over there and resident was concerned about when it would be done. 7/8/98 This was water service that was fixed. M/H casting.
218-097	218-098		450 OTHER MAINTENANCE - WASTEWATER		7/10/1998 MISC		CHAINED DOWN IN CASTING SHOULD BE CHANGED TO BOLT DOWN CASTING
225-199	225-200		439 JET&HYDROCUT SANITARY MAIN LINE - 225-199 225-200		6/12/2007 SLUDGE	HEAVY	
225-156	225-168		439 JET&HYDROCUT SANITARY MAIN LINE - 225-156 225-168		6/6/2007 GRS/RTS	MEDIUM	
225-062	225-070		439 JET&HYDROCUT SANITARY MAIN LINE - 225-062 225-070		6/12/2007 RTS/DBR	MEDIUM	
225-023	225-024		439 JET&HYDROCUT SANITARY MAIN LINE - 225-023 225-024		6/12/2007 DEBRIS	MEDIUM	
219-268	219-269		439 JET&HYDROCUT SANITARY MAIN LINE - 219-268 219-269		6/1/2007 GRS/DBR	LIGHT	
218-208	218-209		439 JET&HYDROCUT SANITARY MAIN LINE - 218-208 218-209		6/22/2007 RTS/DBR	LIGHT	
218-145	218-144		439 JET&HYDROCUT COMBINED MAIN LINE - 218-145 218-144		6/1/2007 GREASE	MEDIUM	
218-143	218-192		439 JET&HYDROCUT COMBINED MAIN LINE - 218-143 218-192		6/1/2007 SLUDGE	LIGHT	
218-096	218-097		439 JET&HYDROCUT SANITARY MAIN - 218-096 218-097		6/22/2007 SAND	MEDIUM	
224-158	224-159		430 MAINTENANCE HOLE INSPECT		11/5/1999		assist measurement on m/h and on conduction
231-045	224-311		428 SEWER MAIN LINE TV		2/19/2003		
231-011	224-279		428 SEWER MAIN LINE TV		2/18/2003		
225-345	225-213		428 SEWER MAIN LINE TV		6/28/2000		
225-325	225-033		428 SEWER MAIN LINE TV		8/28/1998		
225-325	225-033		428 SEWER MAIN LINE TV		3/5/1999		
225-325	225-033		428 SEWER MAIN LINE TV		3/8/1999		
225-324	225-034		428 SEWER MAIN LINE TV		3/18/2003		
225-215	225-216		428 SEWER MAIN LINE TV		6/15/2000		
225-214	225-215		428 SEWER MAIN LINE TV		6/28/2000		
225-213	225-214		428 SEWER MAIN LINE TV		6/28/2000		
225-211	225-216		428 SEWER MAIN LINE TV		2/25/1997 MISC		
225-209	225-210		428 SEWER MAIN LINE TV		11/20/1997 BAC		
225-208	225-209		428 SEWER MAIN LINE TV		11/20/1997		
225-206	225-207		428 SEWER MAIN LINE TV		12/18/2003		
225-195	225-194		428 SEWER MAIN LINE TV		4/7/1999		
225-160	225-161		428 SEWER MAIN LINE TV		8/24/2001		
225-157	225-158		428 SEWER MAIN LINE TV		7/14/2000		
225-157	225-158		428 SEWER MAIN LINE TV		10/18/2000		
225-150	225-156		428 SEWER MAIN LINE TV		9/12/2000		
225-149	225-150		428 SEWER MAIN LINE TV		9/12/2000		
225-072	225-071		428 SEWER MAIN LINE TV		6/18/1997		
225-072	225-071		428 SEWER MAIN LINE TV		6/20/1997		
225-072	225-071		428 SEWER MAIN LINE TV		6/26/1997		
							CAMERA HUNG UP ON JOINTS,NEED NEW PIG TAIL.MAY HAVE TO GO UP STREAM. NEED PULL SYSTEM. NEED TO USE PULL-SYSTEM FOR THIS LINE,DO TO SAG IN LINE.

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
225-072	225-071	428	SEWER MAIN LINE TV		1/13/1999		NEVER TVED 11' ONLY JET CLEAN AND RETV
225-072	225-071	428	SEWER MAIN LINE TV		5/4/1999		TV AFTER LINE JET CLEANED STILL NOT CLEAN
225-072	225-071	428	SEWER MAIN LINE TV		5/27/1999		
225-067	225-074	428	SEWER MAIN LINE TV		9/30/2003		
225-036	225-045	428	SEWER MAIN LINE TV		11/14/1997 BAC		SPEC.INS.P.DUE TO BACK UP AT 423 N.120TH ST.REQUESTED BY BETTE ROBBINS. RETURN TO LABAY WHEN COMPLETE.
225-024	225-032	428	SEWER MAIN LINE TV		5/12/2003		2 FOR 1 DUE TO SETUP
225-023	225-024	428	SEWER MAIN LINE TV		5/12/2003		
225-022	225-024	428	SEWER MAIN LINE TV		4/7/1999		
225-020	225-030	428	SEWER MAIN LINE TV		3/19/2002		
225-016	225-017	428	SEWER MAIN LINE TV		8/7/2000 DBU		
225-013	225-014	428	SEWER MAIN LINE TV		9/9/1998		line needs to be jetted due to debris in m/l
225-011	225-324	428	SEWER MAIN LINE TV		3/18/2003		
225-008	225-325	428	SEWER MAIN LINE TV		8/28/1998		66'ONLY NEEDS TO BE JET CLEANED
225-002	225-013	428	SEWER MAIN LINE TV		9/9/1998 BAC		special inspection due to b/u
224-413	224-093	428	SEWER MAIN LINE TV		2/21/1997		SPEC INSP FOR C-7 DUE TO B/U DURING WINTER STORM
224-381	224-315	428	SEWER MAIN LINE TV		4/22/2003		NEVER TV
224-381	224-315	428	SEWER MAIN LINE TV		4/29/2003		
224-344	224-341	428	SEWER MAIN LINE TV		3/12/1997 BAC		SPECIAL INSPECTION DUE TO B/U AT 105 N 105TH ST
224-341	224-337	428	SEWER MAIN LINE TV		3/13/1997 BAC		SPECIAL INSPECTION DUE TO BACKUP AT 115 N.105TH ST
224-331	224-330	428	SEWER MAIN LINE TV		3/12/1997		SPEC INSP DUE TO B/U AT 213 NW 105TH ST
224-331	224-330	428	SEWER MAIN LINE TV		5/14/1997		SPEC. INSP. DUE TO B/U AND CLAIMS AT 205,213,N.W. 105TH ST.
224-330	224-326	428	SEWER MAIN LINE TV		5/14/1997 BAC		SPEC INSP DUE TO B/U AT 205 AND 213 NW 105TH ST
224-328	224-329	428	SEWER MAIN LINE TV		5/2/2001		
224-321	224-320	428	SEWER MAIN LINE TV		6/14/2000		
224-321	224-320	428	SEWER MAIN LINE TV		6/15/2000		
224-320	224-319	428	SEWER MAIN LINE TV		6/27/1997 BAC		SPEC.INS.P.DUE TO BACKUP AT 217 NW 105TH ST.
224-317	224-316	428	SEWER MAIN LINE TV		4/30/2003		2 for 1 insp
224-316	224-315	428	SEWER MAIN LINE TV		10/18/2001		ROUTINE INSP. This inspection is erroneous. Starting from M/H224-312 going toward the m/h at the Metro trunk line there is an additional m/h which GIS does not show. That particular run was inadvertently labeled as 224-316 to 224-315. The result is this r
224-316	224-315	428	SEWER MAIN LINE TV		4/30/2003		TV-INSP INCOMPLETE, PLEASE COMPLETE THIS LINE INSPECTION.
224-313	224-381	428	SEWER MAIN LINE TV		4/22/2003		2 FOR 1 INSP
224-313	224-381	428	SEWER MAIN LINE TV		4/29/2003		3 FOR 1 ESMT
224-312	224-313	428	SEWER MAIN LINE TV		7/29/1997 MISC		SPEC INSP FOR TRISH RHAY DUE TO CLAIM #60513
224-312	224-313	428	SEWER MAIN LINE TV		10/18/2001		this is not a pull system card
224-312	224-313	428	SEWER MAIN LINE TV		4/22/2003		
224-312	224-313	428	SEWER MAIN LINE TV		4/29/2003		3 FOR 1 ESMT
224-309	224-310	428	SEWER MAIN LINE TV		4/7/1999		
224-303	224-302	428	SEWER MAIN LINE TV		11/2/1999		
224-292	224-291	428	SEWER MAIN LINE TV		5/26/2000		PICTURE FLASHING PIGTAIL WENT OUT INCOMPLETE
224-286	224-285	428	SEWER MAIN LINE TV		3/25/1998		Had to call rodder to remove roots so we could complete our inspection
224-286	224-285	428	SEWER MAIN LINE TV		12/12/2003		voiding in area of sewer m/l several runs d/s

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-285	224-172	428	SEWER MAIN LINE TV	12/12/2003			check m/l cond.
224-273	224-272	428	SEWER MAIN LINE TV	6/26/1997	BAC		TV'D IN 1968 - SPEC.INS.P.DUE TO BACK UP AT 10563 14TH AVE NW RETURN TO LABAY WHEN COMPLETE.
224-227	224-320	428	SEWER MAIN LINE TV	6/14/2000			
224-227	224-320	428	SEWER MAIN LINE TV	6/15/2000			
224-202	224-203	428	SEWER MAIN LINE TV	6/23/2000			
224-201	224-202	428	SEWER MAIN LINE TV	6/23/2000			
224-183	224-182	428	SEWER MAIN LINE TV	7/27/2004			b/u's at 644 nw 114th pl □
							□
224-172	224-171	428	SEWER MAIN LINE TV	3/25/1998			m/l sewer and all laterals are ok 644 nw 114th pl is ok no problems
224-172	224-171	428	SEWER MAIN LINE TV	12/12/2003			offset joint at pvc repair will not allow the camera to tractor over it. The last 43' has not been inspected.
224-171	224-165	428	SEWER MAIN LINE TV	12/12/2003			voiding over m/l sewer this m/l is located in slide area
224-165	224-164	428	SEWER MAIN LINE TV	12/12/2003			check m/l cond.
224-158	224-159	428	SEWER MAIN LINE TV	11/23/1999			check m/l cond. (*25'BETWEEN THESE TWO M/H'S* NEW M/H MAY HAVE BEEN INSTALLED
224-146	224-147	428	SEWER MAIN LINE TV	12/16/2003			
224-145	224-201	428	SEWER MAIN LINE TV	7/1/1997	BAC		SPEC INSP DUE TO CLAIM AT 102 NW 115TH ST
224-145	224-201	428	SEWER MAIN LINE TV	1/7/2000	BAC		TV LINE DUE TO CLAIM # 61543 102 NW 113 ST RETURN RESULTS TO TRISH
224-131	224-130	428	SEWER MAIN LINE TV	10/8/2003			needs jetted
224-131	224-130	428	SEWER MAIN LINE TV	10/9/2003			special insp to locate u/s m/h b/u
224-122	224-121	428	SEWER MAIN LINE TV	7/31/2001			tv 2 for 1 while we haveflaggers
224-121	224-173	428	SEWER MAIN LINE TV	7/31/2001			SPEC.INSP.FOR HERMON WONG OF DESIGN SECTION.
224-115	224-140	428	SEWER MAIN LINE TV	10/7/1999	MISC		TV A.S.A.P. AS THIS PAVING CONTRACT IS ABOUT TO START. THANKS!
224-113	224-133	428	SEWER MAIN LINE TV	7/18/2000			
224-112	224-113	428	SEWER MAIN LINE TV	7/18/2000			
224-111	224-118	428	SEWER MAIN LINE TV	3/7/2001			
224-105	224-104	428	SEWER MAIN LINE TV	5/23/1997	BAC		SPEC INSP DUE TO BACKUP AT 415 NW 120TH ST
224-104	224-103	428	SEWER MAIN LINE TV	2/13/1997	BAC		
224-103	224-418	428	SEWER MAIN LINE TV	2/13/1997	BAC		
224-095	224-086	428	SEWER MAIN LINE TV	6/3/1997			SPEC INSP DUE TO B/U AT 11835 8TH AV NW. RETURN TO LABAY WHEN COMPLETE.
224-094	224-159	428	SEWER MAIN LINE TV	2/28/1997			SPEC INSP DUE TO B/U DURING WINTER STORM FOR C-7
224-093	224-094	428	SEWER MAIN LINE TV	2/28/1997			SPEC INSP DUE TO B/U DURING WINTER STORM FOR C-7 408 ONLY U/S. TVED 159' D/S WITH PULL SYSTEM.
224-082	224-154	428	SEWER MAIN LINE TV	8/24/1999			
224-081	224-082	428	SEWER MAIN LINE TV	8/23/1999	MISC		SPEC.INSP.FOR DANIEL ENRICO,DESIGN
224-080	224-081	428	SEWER MAIN LINE TV	8/23/1999			
224-072	224-073	428	SEWER MAIN LINE TV	8/12/2001			
224-047	224-048	428	SEWER MAIN LINE TV	11/6/1998			
224-046	224-047	428	SEWER MAIN LINE TV	5/6/1998	MISC		ROUTINE INSP NEED FLAGGERS
224-044	224-045	428	SEWER MAIN LINE TV	7/21/1998			2 for 1 inspection
224-043	224-044	428	SEWER MAIN LINE TV	7/21/1998			
224-042	224-104	428	SEWER MAIN LINE TV	2/13/1997	BAC		
224-041	224-042	428	SEWER MAIN LINE TV	2/13/1997	BAC		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
224-039	224-417	428	SEWER MAIN LINE TV		3/13/1997		SPECIAL INSECTION DUE TO BACKUP AT 12005 AND 12023 7TH AVE NW
224-039	224-417	428	SEWER MAIN LINE TV		3/24/1997 BAC		SPEC INSP DUE TO B/U AT 12005 7TH AVE NE
224-039	224-417	428	SEWER MAIN LINE TV		7/29/1997 BAC		SPEC INSP DUE TO B/U AT 12005-12023 7TH AVE NW
224-038	224-039	428	SEWER MAIN LINE TV		4/1/1997 BAC		TV INSP DUE TO B/U IN NEXT RUN DOWNSTREAM
224-036	224-416	428	SEWER MAIN LINE TV		1/13/1999		
224-036	224-416	428	SEWER MAIN LINE TV		1/13/1999 MISC		SEC. INSP. DUE TO BACKUP AT 12005 8TH AVE NW.(SEE #WO- 229482 THESE TWO ARE THE SAME JOB.)
224-035	224-036	428	SEWER MAIN LINE TV		5/21/1997 BAC		SPEC INSP DUE TO B/U FOR TRISH RHAY
224-031	224-086	428	SEWER MAIN LINE TV		12/2/2003		
224-030	224-031	428	SEWER MAIN LINE TV		6/14/2000		
224-028	224-029	428	SEWER MAIN LINE TV		5/26/2000		
224-004	224-009	428	SEWER MAIN LINE TV		5/26/2000		
219-383	219-240	428	SEWER MAIN LINE TV		4/16/2003		
219-371	219-273	428	SEWER MAIN LINE TV		10/11/2002		2 FOR 1
219-338	219-337	428	SEWER MAIN LINE TV		5/27/1998		HAD CAMERA PROBLEMS (KEEPING THE Head up) so we had to go to shop and get new bolts
219-338	219-337	428	SEWER MAIN LINE TV		5/28/1998 MISC		Special inspection for Ann Bryant design.
219-328	225-002	428	SEWER MAIN LINE TV		12/31/1997 MISC		2 for 1 INSP
219-327	225-001	428	SEWER MAIN LINE TV		8/31/2000		
219-327	225-001	428	SEWER MAIN LINE TV		10/3/2000		
219-273	219-271	428	SEWER MAIN LINE TV		10/11/2002		
219-269	219-277	428	SEWER MAIN LINE TV		4/4/2002 BAC		SPEC.INSP.DUE TO BACK UP AT 916-30 N.130th ST.RETURN TO LABAY WHEN COMPLETE.
219-268	219-269	428	SEWER MAIN LINE TV		12/28/2001		
219-268	219-269	428	SEWER MAIN LINE TV		4/4/2002 GRS		SPEC.INSP.DUE TO BACKUP AT 916-30 N.130TH ST. RETURN TO LABAY WHEN COMPLETE. REQUESTED BY JUDITH ANDERSON
219-266	219-267	428	SEWER MAIN LINE TV		5/28/1998 MISC		Special inspection for Ann Bryant design.
219-259	219-267	428	SEWER MAIN LINE TV		6/4/1998		
219-258	219-266	428	SEWER MAIN LINE TV		5/28/1998 MISC		Special inspection for Ann Bryant design.
219-254	219-258	428	SEWER MAIN LINE TV		5/28/1998 MISC		Special inspection for Ann Bryant design.
219-253	219-254	428	SEWER MAIN LINE TV		2/14/1997		TV INSP DUE TO OVERFLOWING AT U/S M/H.(B/U WAS RELIEVED ON 1-21-97 CAUSED BY STICKS AND ROOTS)
219-253	219-254	428	SEWER MAIN LINE TV		2/14/1997 BAC		TV INSP DUE TO OVERFLOWING AT U/S M/H.(B/U WAS RELIEVED ON 1-21-97,CAUSED BY STICKS AND ROOTS)(NOTE:THIS TV INSP IS AFTER GREASE AND ROOT REMOVAL ON 2-14-97)
219-246	219-328	428	SEWER MAIN LINE TV		8/15/2003		SPECIAL INSP DUE TO VOID
219-241	219-242	428	SEWER MAIN LINE TV		4/6/1998		line needs to be jet cleaned due to debris build up and then retv'd.
219-241	219-242	428	SEWER MAIN LINE TV		4/6/1998 MISC		line needs to be jet cleaned due to debris build up and then retv'd.
219-239	219-383	428	SEWER MAIN LINE TV		4/16/2003		
219-238	219-239	428	SEWER MAIN LINE TV		4/16/2003		SPECINSP TO DETERMINE IF L/H OR M/H AT D/E
218-227	218-132	428	SEWER MAIN LINE TV		4/24/2002		
218-221	218-138	428	SEWER MAIN LINE TV		6/8/2000		
218-208	218-209	428	SEWER MAIN LINE TV		7/30/2003		
218-201	224-043	428	SEWER MAIN LINE TV		7/21/1998 CVO		
218-199	218-200	428	SEWER MAIN LINE TV		4/7/1999		special insp. due to void over m/l sewer

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
218-197	218-199	428	SEWER MAIN LINE TV		4/7/1999		
218-192	218-191	428	SEWER MAIN LINE TV		8/19/1997 GRS		TV INSP FOR GREASE
218-188	218-226	428	SEWER MAIN LINE TV		4/24/2002		
218-186	218-185	428	SEWER MAIN LINE TV		9/18/2002		
218-182	218-208	428	SEWER MAIN LINE TV		10/8/2003		
218-176	218-202	428	SEWER MAIN LINE TV		5/3/2000		
218-173	218-174	428	SEWER MAIN LINE TV		7/7/2003		
218-172	218-196	428	SEWER MAIN LINE TV		9/6/2002		
218-171	218-172	428	SEWER MAIN LINE TV		9/6/2002		
218-165	218-164	428	SEWER MAIN LINE TV		12/2/2003		
218-163	218-160	428	SEWER MAIN LINE TV		6/2/2000		
218-161	224-026	428	SEWER MAIN LINE TV		5/25/2001 CVO		
218-156	218-155	428	SEWER MAIN LINE TV		12/9/2002		ROUTINE
218-155	218-150	428	SEWER MAIN LINE TV		12/5/2002		
218-153	218-152	428	SEWER MAIN LINE TV		11/1/2002		
218-153	218-152	428	SEWER MAIN LINE TV		12/6/2002		
218-152	218-150	428	SEWER MAIN LINE TV		12/6/2002		
218-150	218-146	428	SEWER MAIN LINE TV		12/5/2002		
218-149	218-146	428	SEWER MAIN LINE TV		10/5/2000		
218-149	218-146	428	SEWER MAIN LINE TV		10/11/2000		
218-148	218-147	428	SEWER MAIN LINE TV		7/25/2000		
218-145	218-144	428	SEWER MAIN LINE TV		8/20/1997 GRS		Special inspection for grease that caused a b/u d/s. M/l needs to be jetted due to grease and debris. Unable to tv last 10' because of debris.
218-145	218-144	428	SEWER MAIN LINE TV		9/8/2004		REQUESTED BY C-11 DUE TO B/U'S AT 12724/12730 12TH AVE NORTHWEST
218-144	218-143	428	SEWER MAIN LINE TV		8/20/1997 GRS		special insp. for grease due to b/u.
218-144	218-143	428	SEWER MAIN LINE TV		9/8/2004		B/U'S AT 12724/12730 12TH AVE NORTHWEST
218-143	218-192	428	SEWER MAIN LINE TV		8/19/1997 BAC		Tv'd and found line plugged off by heavy grease. Called for hydrocut and m'l was opened and ret.v'd
218-142	218-143	428	SEWER MAIN LINE TV		5/23/1997 BAC		SPEC. INSP. DUE TO BACKUP AT 12612 BLAKLEY PL NW.RETURN TO LABAY WHEN COMPLETE.
218-142	218-143	428	SEWER MAIN LINE TV		8/20/1997		
218-142	218-143	428	SEWER MAIN LINE TV		11/19/1997 BAC		SPEC.INSP.DUE TO BACKUP AT 12612 BLAKLEY PL NW.RETURN TO LABAY WHEN COMPLETE.
218-142	218-143	428	SEWER MAIN LINE TV		11/19/1997 BAC		SPEC INSP DUE TO B/U AT 12612 BLAKLEY AVE NW
218-140	218-141	428	SEWER MAIN LINE TV		6/13/2000		
218-139	218-140	428	SEWER MAIN LINE TV		6/8/2000		
218-138	218-139	428	SEWER MAIN LINE TV		6/8/2000		
218-137	218-136	428	SEWER MAIN LINE TV		6/5/2000		
218-135	218-136	428	SEWER MAIN LINE TV		6/5/2000		
218-126	218-181	428	SEWER MAIN LINE TV		2/7/2001		
218-113	218-167	428	SEWER MAIN LINE TV		6/2/2000		
218-109	218-106	428	SEWER MAIN LINE TV		6/2/2000		
218-108	218-107	428	SEWER MAIN LINE TV		10/3/2002		
218-098	218-145	428	SEWER MAIN LINE TV		3/19/1998		Very heavy debris so we called for jet to remove so we could complete tv inspection
218-097	218-098	428	SEWER MAIN LINE TV		3/19/1998		special inspection due to flooding complaint
218-096	218-097	428	SEWER MAIN LINE TV		3/19/1998		Heavy debris so we had jet come by and clean so we could complete the tv inspection.
218-096	218-097	428	SEWER MAIN LINE TV		5/1/2001		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
218-070	218-096	428	SEWER MAIN LINE TV	5/1/2001			
225-209	225-210	416	ASSIST ANY CREW	11/20/1997			
225-196	225-197	416	ASSIST ANY CREW	6/23/2000			assisted jet, only 1 person on it
225-072	225-071	416	ASSIST ANY CREW	6/24/1997			
225-072	225-071	416	ASSIST ANY CREW	6/29/1999			ASSIST TV CREW WITH TRAFFIC CONTROL
225-047	225-057	416	ASSIST ANY CREW	5/25/1999			
224-331	224-330	416	ASSIST ANY CREW	1/1/1997	STORM		DELIVER SUPPLIES FOR BY PASS
224-303	224-302	416	ASSIST ANY CREW	2/18/1999			REPAIR IN CARKEEK PARK, SEE AJA'S PAPER
224-303	224-302	416	ASSIST ANY CREW	2/18/1999	REP		ASSIST 111 ON REPAIR APP 75' FROM M/L REPAIR WAS MADE - 2' OF 6" WITH PVC PIPE 2 - 6" FERNCO COUPLING
224-286	224-285	416	ASSIST ANY CREW	3/25/1998	RTS	HEAVY	
224-231	224-230	416	ASSIST ANY CREW	4/13/2005	FLAG		flag for rodder
224-216	224-215	416	ASSIST ANY CREW	3/29/2002			assisted trk 110 in locating m/h #
224-197	224-356	416	ASSIST ANY CREW	2/28/2003			assist tv trk 133 dying
224-196	224-195	416	ASSIST ANY CREW	9/3/1999			ASSIST TRAFFIC CONTROL RAISE CASTINGS
224-196	224-195	416	ASSIST ANY CREW	9/3/1999			ASSIST TUAI ON CASTING - COMPLETE
224-172	224-171	416	ASSIST ANY CREW	7/21/1998			Check for repair. This is down ravine in Carkeek Park. No time to locate.
224-171	224-165	416	ASSIST ANY CREW	3/2/1999			CARKEEK PARK; ASSIST AJA/MDW WITH CUTTING SHRUBS, PLACING PLASTIC TO PREVENT FUTURE EROSION.
224-135	224-134	416	ASSIST ANY CREW	3/4/1999			ESMT W/O 12TH AVE NW & NW 4TH, M/H S/O NW 117TH; CLEANED AND PUMPED & WASHED DOWN PREVIOUS BACK UP FOR CONFINED M/H ENTRANCE.
224-134	224-133	416	ASSIST ANY CREW	3/27/2003	CVO		assist trk 124 in dying void
224-122	224-121	416	ASSIST ANY CREW	7/31/2001	FLAG		traffic control set up for tv truck 983540
224-121	224-173	416	ASSIST ANY CREW	7/31/2001	FLAG		traffic control set up for tv truck 983540
224-094	224-159	416	ASSIST ANY CREW	2/28/1997	MISC		ASSISTED TV CREW BY VACTORING OUTFLOW FROM M/L
224-093	224-094	416	ASSIST ANY CREW	2/24/1997			ASSIST TV CREW
224-093	224-094	416	ASSIST ANY CREW	2/25/1997	MISC		ASSIST TV TRK IN KEEPING FLOW DOWN SO THEY COULD GET AT GOOD TV INSP
224-084	224-085	416	ASSIST ANY CREW	11/19/1999			assist tv crew in bypass
224-084	224-085	416	ASSIST ANY CREW	11/23/1999			assist 114 with pump & bypass
224-047	224-048	416	ASSIST ANY CREW	4/14/2004	MISC		
219-327	225-001	416	ASSIST ANY CREW	9/29/2000			flag for 128
219-324	219-325	416	ASSIST ANY CREW	6/7/2001			assisted jet w/ traffic.
219-268	219-269	416	ASSIST ANY CREW	12/28/2001			
219-238	219-239	416	ASSIST ANY CREW	4/17/2003	BAR		no park for tv
219-238	219-239	416	ASSIST ANY CREW	4/18/2003			assisted tv, jetted, cleaned m/l.
219-238	219-239	416	ASSIST ANY CREW	4/22/2003	BAR		pick up no parks for tv crew.
218-227	218-132	416	ASSIST ANY CREW	4/24/2002	FLAG		provide back up and traffic control for tv trk 133, w/s of greenwood.
218-204	218-203	416	ASSIST ANY CREW	4/26/2002	FLAG		assist trk 133 with traffic control
218-188	218-226	416	ASSIST ANY CREW	4/24/2002			jet was needed for tv inspection to be completed.
218-133	218-094	416	ASSIST ANY CREW	5/12/2000			
218-132	218-133	416	ASSIST ANY CREW	5/12/2000			
218-132	218-133	416	ASSIST ANY CREW	12/12/2002	FLAG		assist truck 107
218-096	218-097	416	ASSIST ANY CREW	8/3/2005			assist tv crew; pumped out water while tving line

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
218-096	218-097		416 ASSIST ANY CREW		8/3/2005		ASSIST JET VACTOR 5523 JETTING TRAFFIC AND HYDROCUT LINE
231-045	224-311		413 SEWER BACKUP INSPECTION		2/16/2003 GRS		10434 8th Ave NW. rise u/s m/h = 1/2 full. weather = rain. rodded d/s m/h 44'. relieved blockage 30'. medium grease came out. informed customer. m/l and property were in back up. referred to district to tv line.
231-045	224-311		413 BAC - 10434 8TH AV NW		5/21/2006 GRS/RTS	MEDIUM	
231-006	224-274		413 SEWER BACKUP INSPECTION		11/14/2001 BAC	NF	10334 14 Ave NW..owners drain line are or might be plugged. m/l is fine. no sign of backup. 0 rise. work order 321481 has time charged to it. crew wrote wrong d/s m/h. should have been 224-274 not 231-007.
225-325	225-033		413 SEWER BACKUP INSPECTION		9/18/1997 BAC		@ 12004 GREENWOOD: D/S M/H B/U 2'
225-212	225-211		413 SEWER BACKUP INSPECTION		1/31/2002 BAC	RES	10533 North Park Ave N. checked dyed out m/l. took a long time for dye to show. two houses in b/u. now they are flushing ok. John Marchitto assisted in rodding m/l. m/l ok. m/h 225-211 needs to be pumped.
225-208	225-209		413 SEWER BACKUP INSPECTION		1/2/1997 NF		@ 10909 Northpark Ave. N. Checked M/L from USMH. All OK and running fine at this time. Car parked over DSMH (225-210). Further d/s is okay.
225-206	225-207		413 SEWER BACKUP INSPECTION		1/28/2004		10708 Fremont Ave N. no indication of rise in m/h's. flow < 1/2 pipe. sewage is leaking out of cleanout next door onto his property. Common sewer with them. They will call plumber and next door landlord.dye test city m/l = dye showed d/s.
225-205	225-206		413 SEWER BACKUP INSPECTION		12/24/2001 BAC	NF	10730 freemont ave north. sounded out line ok. m/l ok. informed customer. 0 rise.
225-197	225-204		413 SEWER BACKUP INSPECTION		5/12/2005		11003 Fremont Av N. No indication of rise. flow < half. weather =dry. dye test, dye showed. neighbor called. sewage collected on this property. left door hanger. Request call back for dye test toilet of address above. ok.
225-180	225-183		413 SEWER BACKUP INSPECTION		5/4/2000		@ 11034 EVANSTON AVE N. M/L RUNNING FINE.
225-180	225-183		413 SEWER BACKUP INSPECTION		5/4/2000 BAC		11235 Evanston Av N. no indication of rise in d/s mh. u/s mh is buried. dye out 11251 Evanston, dye showed at d/s mh.Checked with customer at 11235 Evanston, no dye backed up into his basement. He will try to flush w/ garden hose. City m/l ok.
225-174	225-176		413 SEWER BACKUP INSPECTION		1/3/2005		
225-168	225-170		413 SEWER BACKUP INSPECTION		6/30/2004		10716 Greenwood Av N. no indication of rise in m/h's. flow < 1/2. dye test sewer m/l, dye showed in d/s m/h less than 3 minutes. m/l is running fine. left 2 door hanger. nobody home.
225-159	225-160		413 BAC - 11044 DAYTON AV N 225-159 225-160		2/3/2006 NOPROB		
225-155	225-169		413 BAC - 10745 PHINNEY AVE N 225-155 225-169		12/4/2007 NOPROB		
225-072	225-157		413 SEWAG - 11258 DAYTON AVE N 225-072 225-157		12/14/2007 STORM		
225-058	225-067		413 BAC - 11557 FREMONT AVE N 225-058 225-067		4/5/2007 NOPROB	LIGHT	
225-051	225-062		413 SEWER BACKUP INSPECTION		10/11/2003		11556 Greenwood Ave N. no indication of rise. flow < 1/2 pipe. m/l is running fine. informed manager.
225-049	225-060		413 SEWER BACKUP INSPECTION		1/7/1998 NF		@ 11721 Northpark Ave N - Our M/L running OK. Sounded out too. NOT OURS. (01/07/97 B/U NOT OURS. OUR M/L RUNNING, SOUNDS OUT TOO.
225-045	225-054		413 SEWAG - 11727 DAYTON AVE N 225-045 225-054		12/5/2007		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
225-036	225-045		413 SEWER BACKUP INSPECTION		10/7/1997 NF		@ 423 N 120TH ST: NO INDICATION OF B/U IN U/S M/H 8" M/L SOUNDED OUT OKAY
225-035	225-036		413 BAC - 423 N 120TH ST		12/3/2007 STORM		
225-029	225-026		413 BAC - 12006 EVANSTON AVE N..225-029 225-026		5/27/2007 NOPROB		
224-337	224-331		413 BAC - 103 NW 105TH ST 224-337 224-331		12/3/2007 STORM		
224-333	224-336		413 BAC - 10559 1ST AVE NW 224-333 224-336		9/7/2007 NOPROB		
224-331	224-330		413 SEWER BACKUP INSPECTION		3/19/1997 STORM		@ 205-217 NW 105TH: M/L IS SURCHARGED DUE TO HEAVY RAINS
224-331	224-330		413 BAC - 205 NW 105 224-331 224-330		12/3/2007 STORM		
224-331	224-330		413 BAC - 213 NW 105TH ST 224-331 224-330		12/7/2007		
224-330	224-326		413 BAC - 217 NW 105TH ST 224-330 224-326				
224-329	224-331		413 BAC - 202 NW 105TH 224-329 224-331		12/3/2007 STORM		
224-329	224-331		413 BAC - 204 NW 105TH ST 224-329 224-331		12/6/2007		
224-309	224-310		413 SEWER BACKUP INSPECTION		1/1/1997 STORM		@ 821 NW 106th St. M/L in easement is flowing fine. DSMH has build up on rungs so DSMH was backed up or surcharged, but OK now. Advised homeowner that S/S is okay now.
224-309	224-310		413 SEWER BACKUP INSPECTION		2/14/1997 NF		@ 821 NW 106th St. Checked M/L for B/U. M/L running fine and no sign of B/U at this time.
224-309	224-310		413 SEWAG - 821 NW 106TH ST 224-309 224-310		12/3/2007		
224-304	224-378		413 SEWER BACKUP INSPECTION		2/15/1999 BAC	NF	@ NW 108th St & 8th Ave NW (Carkeek Park) - M/L running fine.
224-282	224-281		413 SEWER BACKUP INSPECTION		6/21/2003		10502 12th Ave NW. no indication of rise in m/h's. flow < 1/2 pipe. dye out line--showed. flush out m/l. running ok. not ours. private problem. informed customer.
224-272	224-271		413 SEWER BACKUP INSPECTION		6/13/2004		10572 14 Ave NW (address connects to 224-276 to -271) no indication of rise in m/h's. flow < 1/2 dye test = showed at d/s m/h. also dyed m/h's 275, 273, 276. All showed at m/h 271. Not ours. Private.
224-240	224-241		413 SEWER BACKUP INSPECTION		6/24/1999 BAC	NF	@ 11035 1st ave NW Main running fine informed
224-239	224-238		413 SEWER BACKUP INSPECTION		3/3/1999 BAC	NF	@ 106 NW 112th St - M/L running OK. U/S is a f/t, but still sounded out. Talked to homeowner, roto rooter could only go about 100' and hit something hard.
224-215	224-214		413 SEWER BACKUP INSPECTION		2/5/2005		348 NW 112. No indication of rise in m/h's. flow < half. dye tested sewer m/l, dye showed in d/s m/h in less than 3 minutes. m/lis running fine. Informed owner.
224-188	224-020		413 BAC - 12021 11TH AVE NW 224-188 224-020		12/6/2007 STORM		
224-183	224-182		413 SEWER BACKUP INSPECTION		7/26/2004	HEAVY	644 NW 114 Pl. no indication of rise in m/h's. flow < half. line sounded out ok. dye showed. refer to dist to TV. possible damage by water dept.
224-137	224-136		413 SEWER BACKUP INSPECTION - 11703 2ND AV NW		12/25/2005		
224-134	224-133		413 SEWER BACKUP INSPECTION		4/19/1999 BAC		@ 11550 4th Ave NW - M/L running OK.
224-133	224-132		413 SEWER BACKUP INSPECTION		4/19/1999 BAC		check m/l for b/u---m/l ok. see log book for details.
224-133	224-132		413 SEWER BACKUP INSPECTION		4/20/1999		take s/s card out to construction area. drop in mailbox for swing shift.
224-131	224-130		413 SEWER BACKUP INSPECTION		9/26/2003		11551 4th Ave NW. homeowner not in b/u now. d/e m/h. u/s is buried. d/s m/h has very low flow need to tv. city m/l ok.
224-073	224-074		413 SEWER BACKUP INSPECTION		6/18/2004		1202 NW 119 St. no indication of rise in m/h's. flow < 1/2. line sounded out ok. dye test m/l = showed d/s. m/l running ok. not ours. found steel rod inside m/l at m/h 224-074. Needs to be pulled out. refer to district to clean.

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
224-072	224-073		413 SEWER BACKUP INSPECTION		4/11/2001 BAC	NF	DYED SEWER M/L RUNNING OK SOUNDED OK. NOT OURS. OWNER IS NOT HOME. LEAVE INFO AT DOOR
224-048	224-106		413 SEWER BACKUP INSPECTION		7/12/2005		12021 3rd Av NW. u/s indication of prior rise. flow < half. weather = dry. Dye test, dye showed d/s m/h. Refer to dist to CCTV. Viewed customers video tape which shows a broken mainline connection. She replaced her entire s/s last year. Tape was filmed to
224-047	224-048		413 SEWER BACKUP INSPECTION		1/1/1997 UNK		@ 12033 3rd NW. M/L on 3rd NW is running well, but full pipe. There are some large fir trees here - please check. MLSM possibly needed for roots. Unable to sound due to heavy traffic.
224-042	224-104		413 BAC - 12005 6TH AV NW - 224-042 224-104		11/8/2006 NOPROB		
224-042	224-104		413 BAC - 12011 6TH AVE NW 224-042 224-104		12/5/2007 NOPROB		
224-041	224-042		413 SEWER BACKUP INSPECTION		1/14/1997 STORM		
224-041	224-042		413 SEWAG - 12031 6TH AVE NW 224-041 224-042		12/3/2007 RISE		
224-038	224-039		413 BAC - 12040 7TH AVE NW 224-038 224-039		11/9/2007 NOPROB		
224-019	224-025		413 BAC - 12040 12TH AVE NW 224-019 224-025		12/5/2007 STORM		
219-273	219-271		413 SEWER BACKUP INSPECTION		9/11/2002	NF	
219-268	219-269		413 SEWER BACKUP INSPECTION		12/28/2001		932 n 127th; checked b/u. our main running fine at this time, no signs of any b/u our m/l. talk to building owner, let them know ours.owner said truck was cleaning c/b on 9/10/02 and left sludge in front of bldg 930-932. 916-30 N 130th at Mr. Bill Restaurant. rodder brought back heavy grease at least one shredded undergarment & what appeared to be rags. relieve b/u m/l very heavy grease. also s/s blocked by grease. called for hydrocutter. call com center.rise u/s m/h = 10
219-253	219-254		413 SEWER BACKUP INSPECTION		1/21/1997 RTS		@On Fremont Ave. N. from N. 128 to N. 130th. Received a call about an overflowing MH. We rodded using a 3" auger and relieved B/U at 123' from DSMH. Roots and rags were causing blockage.
219-242	219-327		413 SEWER BACKUP INSPECTION		2/11/2002		413 n 127th; sounded line - ok dye test pos.
219-241	219-242		413 SEWER BACKUP INSPECTION		1/23/1998 NF		@ 322 N 127th - Checked u/s & d/s no sign of B/U. Dyed u/s M/H. Notified property owner.
219-237	219-241		413 SEWER BACKUP INSPECTION		1/23/1998 NF		@ 12744 Phinney Ave N. - No indication of B/U, M/L sound out OK.
219-237	219-241		413 SEWER BACKUP INSPECTION		1/26/1998 BAC		12744 PHINNEY AV N. NO SIGN OF B/U, M/L OK
218-227	218-132		413 SEWER BACKUP INSPECTION		3/29/1999 BAC	RES	@ 300 N 130th St - M/L backed up. Called c-11 who notified jet vac to meet us ASAP.
218-221	218-138		413 BAC - 1262 NW BLAKELY CT 218-221 218-138		12/3/2007 STORM		@ 220 NW 125th St. - M/L RUNNING OK, SOUNDED OUT LOUD & CLEAR - TALKED TO HOME OWNER AND SMELL IS GONE.
218-204	218-203		413 SEWER BACKUP INSPECTION		10/15/1998 NF		DYE TEST M/LINE. DYE SHOWED IN D/S MH IN LESS THAN 3 MINUTES MAIN LINE IS RUNNING FINE INFORMED OWNER 12527 3 Ave NW.
218-204	218-203		413 SEWER BACKUP INSPECTION		6/23/2001 BAC	NF	
218-199	218-200		413 SEWAG - 420 NW 125TH ST 218-199 218-200		12/20/2006 NOPROB		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND			COMMENTS
				COMPDTM	FOUND	SEVERITY	
218-197	218-199		413 SEWER BACKUP INSPECTION		7/11/2000 BAC	RES	found m/h b/u, relieve b/u, very heavy sludge, call for rodder, wash down u/s m/h, also we write on defect slip for off set casting @ 12701 Greenwood Ave N - M/L B/U at 320', run is 350' total. Machine rod relieved B/U.
218-187	218-188		413 SEWER BACKUP INSPECTION		1/12/1999 BAC	RES	@ 12550 4th n.w. m/l running fine
218-176	218-202		413 SEWER BACKUP INSPECTION		3/22/2000		
218-174	218-198		413 BAC - 12630 6TH AV NW		8/7/2006 NOPROB		
218-173	218-174		413 SEWER BACKUP INSPECTION		5/12/2003		
218-145	218-144		413 SEWER BACKUP INSPECTION		10/20/2003 STORM		12728 6th Ave NW. no indication of rise in m/h's. flow is <1/2 pipe. checked u/s m/h and d/s m/h. m/l ok. Mr. Rooter is on site. good flow u/s and d/s m/h. 12724 12th Ave NW. rise u/s = 2 feet, rise d/s = 2 feet. to much water at this time m/l overload. talked to owner.drain b/u into garage no damage at this time.
218-143	218-192		413 SEWER BACKUP INSPECTION		8/17/1997 DBR		@ 12612 Blakely Pl NW - Hit obstruction 48' of 8". Relieved B/U. We found very large rock in channel, very heavy sludge build up in 8" M/L. Paper, sludge and rock in channel caused B/U.
218-136	218-195		413 BAC - 12650 BLAKELY PL NW 218-136 218-195		12/6/2007 STORM	HEAVY	
218-133	218-094		413 SEWER BACKUP INSPECTION		3/29/1999	HEAVY	RELIEVED BACK UP CAUSED BY GREASE IN LINE
218-133	218-094		413 SEWER BACKUP INSPECTION		3/29/1999		LINE BACKED UP THREE RUNS DOWN STREAM OF B/U AT 300 N 130 ST
218-132	218-133		413 SEWER BACKUP INSPECTION		3/30/1999		RECHECK FOOTAGES IN M/HS AFTER B/U
218-126	218-181		413 SEWER BACKUP INSPECTION		10/24/2000 BAC	NF	M/L RUNNING FINE. S/S PROBLEM.
218-125	218-126		413 SEWER BACKUP INSPECTION		1/27/2002 BAC	NF	13015 2 Ave NW. checked our m/l. running fine. dye test showed u/s to d/s. explain to owner.
218-122	218-121		413 SEWER BACKUP INSPECTION		5/22/2000		CANNOT LOCATE D/E M/H NEED A LOCATOR
218-122	218-121		413 SEWER BACKUP INSPECTION		9/30/2000 BAC	NF	WENT ALL THE WAY TO D/E M/H 190 FT OF ROD. ALL CLEAR. TALKED TO CUSTOMER S/S PROBLEM.
218-106	218-103		413 SEWER BACKUP INSPECTION		3/17/1999 BAC	NF	13001 9TH AVE NW; NO INDICATION OF B/U IN U/S M/H, WE DYE OUT 8" M/L WE LEFT YELLOW NOTICE AND S/S CARD.
218-096	218-097		413 SEWER BACKUP INSPECTION		6/7/1998 NF		@ 13015 12th NW - E-man report only. M/L running fine, discharge of sewer in side yard looks like s/s. No one home, told neighbor if Sue bodine wants toilet dyed to call when arrives home. Appears to be a private problem.
218-096	218-097		413 SEWER BACKUP INSPECTION		5/11/2005 DBR		13021 12 Av NW. u/s mh rise = 3/4 full. Flow d/s m/h < half. weather = dry. The customer had a plumber. Outside sewer backed up into crawl space. Inspect u/s mh and found it 3/4 full of water. d/s mh at a trickle. Machine rod. Relieved b/u at 46 feet from
218-096	218-097		413 SEWER BACKUP INSPECTION		7/31/2005 RTS		13015 & 13021 12th Av NW (also service id 21809). Mainline surcharged. Used vactor to clear blockage that was 50 to 55 feet from u/s m/h. House 13015 foundation wall is wet. House 13021 (connects to 218-070 to -096) no damage seen.□ [computer was down whe
218-070	218-096		413 SEWER BACKUP INSPECTION		1/3/1997 NF		@ 13021 12th NW. M/L and MH's okay. No sign of B/U.
218-070	218-096		413 SEWER BACKUP INSPECTION		1/3/1997 NF		@ 13021 12th NW. M/L and MH's okay. No signs of B/U.
218-070	218-096		413 BAC - 13021 12TH AVE NW 218-070 218-096		12/3/2007 STORM	HEAVY	
225-197	225-204		411 CSO INSPECTION		3/30/1999 RC		RAISE M/H CASTING
224-303	224-302		409 SEWER MINI CAMERA INSPECTION		3/9/1998		SEE PREVIOUS TWO W/O

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-303	224-302		409 SEWER MINI CAMERA INSPECTION		2/22/1999		FLOAT POLYLINE THROUGH BY HAND,PULLED CAMERA THROUGH BY HAND D/S POLYLINE SNAPPED,CAMERA STUCK AT 45% BEND 25 D/S FROM U/S MH INCOMPLETE
224-303	224-302		409 SEWER MINI CAMERA INSPECTION		2/23/1999		2 ONLY MINICAM VCR AND CABLE BAD
225-196	225-197		407 REHAB (SEWER OR DRAINAGE)		1/16/1998 REP		Contractor broke pipe with backhoe.This repair is 75 yards behind 11062 Fremont Ave North.Broken by Hobart Const.Company. Repair 43' of M/L (Work order Number dwt #142) (Repair Number 98-014)
225-036	225-045		407 REHAB (SEWER OR DRAINAGE)		9/22/1998 REP		D/S INSP. - REPAIR AT 274' - SEE S/S CARD AND TV- REPORT. /BREAK OUT SHAFT, EXCAVATE SHAFT 10 FT. REPLACE 5 1/2' OF 8" M/L & 4' OF 6" S/S TO W. BED IN ROCK & BACKFILL W/ ROCK. MC HOLE. (REPAIR NUMBER 98-144)
224-339	224-340		407 REHAB (SEWER OR DRAINAGE)		6/2/2003 WD		10716 palatine ave n; repair side sewer (damaged by water dept.), 66" deep, 20'6" edge of road to center of repair; charge #C300329-c88
224-303	224-302		407 REHAB (SEWER OR DRAINAGE)		3/9/1998		SEE PREVIOUS W/O
224-038	224-039		407 REHAB (SEWER OR DRAINAGE)		9/18/1998 REP		REPAIR AS PER TV INSP AND S/S CARD/BREAK OUT SHAFT, EXCAVATE 13 FT. REPOLACE 5' OF 8" M/L & 4' OF 6" s/s to E. BED IN ROCK, SLURRY HOLE. (REPAIR NUMBER 98-143)
224-024	224-022		407 REHAB (SEWER OR DRAINAGE)		2/5/1997 MISC		REPAIR S/S 6" CONNECTION
219-273	219-271		407 REHAB (SEWER OR DRAINAGE)		11/12/1997 REP		REPAIR 12" LINE
218-118	218-117		407 REHAB (SEWER OR DRAINAGE)		1/16/2002 CBL		13015 6TH AVE NW: CONTRACTOR BROKE 8' ML...HAD TO ROLL IN 6 ON 8 WYE, PERMIT # 020041
225-325	225-033		406 TV SEWER MAIN LINE-PULL		4/14/1999		
225-180	225-183		406 TV SEWER MAIN LINE-PULL		10/18/2000		
225-072	225-071		406 TV SEWER MAIN LINE-PULL		6/29/1999 BAC		NEVER TV'D
224-343	224-345		406 TV SEWER MAIN LINE-PULL		9/4/2003		
224-331	224-330		406 TV SEWER MAIN LINE-PULL		3/13/1997 BAC		SPECIAL INSPECTION DUE TO B/U AT 213 NW 105TH ST.
224-313	224-381		406 TV SEWER MAIN LINE-PULL		10/18/2001		This was tractored because a pull system set-up was both not accessible nor necessary.
224-286	224-285		406 TV SEWER MAIN LINE-PULL		11/24/1999 MISC		SPEC.INSP.FOR SYLVIA VON AULOCK DUE TO SLIDES ON HILL SIDE.RETURN TO LABAY WHEN COMPLETE.
224-285	224-172		406 TV SEWER MAIN LINE-PULL		3/25/1998 MISC		SPEC.INSP.FOR SYLVIA VON AULOCK, DUE TO SLIDES ON HILL SIDE. RETURN TO LABAY WHEN COMPLETE. Tv due to setup in canyon, 3 for 2.
224-282	224-281		406 TV SEWER MAIN LINE-PULL		7/20/2000		
224-281	224-280		406 TV SEWER MAIN LINE-PULL		7/20/2000		
224-247	224-342		406 TV SEWER MAIN LINE-PULL		5/8/2002		
224-095	224-086		406 TV SEWER MAIN LINE-PULL		5/15/1997		SPEC INSP DUE TO BACKUP AT 11835 8TH AVE NW.(ATTEMPTED SEVERAL TIMES TO PULL CAMERA THRU M/L WITH PORTABLE WINCH.UNABLE TO GET PAST 6 FT.PIPE IS TOO SMALL FOR SKID SYSTEM.CALLED C-10 AND HE HAD TRUCK
224-094	224-159		406 TV SEWER MAIN LINE-PULL		2/24/1997		SPEC INSP DUE TO B/U DURING WINTER STORM
224-093	224-094		406 TV SEWER MAIN LINE-PULL		2/24/1997		SPEC INSP DUE TO B/U DURING WINTER STORM

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-093	224-094		406 TV SEWER MAIN LINE-PULL	2/25/1997			SPEC INSP DUE TO B/U FOR C-7 HAD TO FLOAT 1100 FT POLYLINE 4 RUNS LOST PICTURE AT 159 FT ON OFFSET JOINT
224-072	224-073		406 TV SEWER MAIN LINE-PULL	10/22/2001			
219-267	219-338		406 TV SEWER MAIN LINE-PULL	5/28/1998 MISC			Special insp. for Ann Bryant design.
219-237	219-241		406 TV SEWER MAIN LINE-PULL	2/26/2002			
218-204	218-203		406 TV SEWER MAIN LINE-PULL	4/26/2002			
218-132	218-133		406 TV SEWER MAIN LINE-PULL	12/12/2002			ROUTINE
218-125	218-126		406 TV SEWER MAIN LINE-PULL	7/25/2002			
218-108	218-107		406 TV SEWER MAIN LINE-PULL	12/19/2001			
231-045	224-311		405 JET CLEAN SAN/COMB MAINLINE	10/14/1997 GRS	MEDIUM		
231-045	224-311		405 JET CLEAN SAN/COMB MAINLINE	11/19/1999 GRS	HEAVY		
231-045	224-311		405 JET CLEAN SAN/COMB MAINLINE	2/19/2002 SLG	LIGHT		
231-045	224-311		405 JET CLEAN SAN/COMB MAINLINE	11/14/2003 GRS	HEAVY		
231-045	224-311		405 JET CLEAN SAN/COMB MAINLINE	11/20/2003 GRS	HEAVY		send tv to track grease - possible low spot near d/s m/h.
231-011	224-279		405 JET CLEAN SAN/COMB MAINLINE	5/14/2003 DBR	LIGHT		
231-006	224-274		405 JET CLEAN SAN/COMB MAINLINE	3/6/2001 DBR	HEAVY		heavy debris & rocks
231-006	224-274		405 JET CLEAN SANITARY MAIN LINE - 231-006 224-274	4/20/2007 SAND	HEAVY		
225-325	225-033		405 JET CLEAN SAN/COMB MAINLINE	3/5/1999 SND	HEAVY		JET AND HYDRO CUT; HEAVY SAND, ROCK & HARD ASPHALT THROUGHOUT.
225-325	225-033		405 JET CLEAN SAN/COMB MAINLINE	3/9/1999 DBR	MEDIUM		
225-325	225-033		405 JET CLEAN SAN/COMB MAINLINE	2/28/2003 DBR	LIGHT		JET VAC 8" LINE FOR TV; MEDIUM MATERIALS light debris and sludge
225-325	225-033		405 JET CLEAN SAN/COMB MAINLINE - 48 MONTHS	5/8/2007 SAND	MEDIUM		
225-324	225-034		405 JET CLEAN SAN/COMB MAINLINE	5/30/2003 DBR	LIGHT		assisted by trk 003553
225-310	225-195		405 JET CLEAN SAN/COMB MAINLINE	8/6/2002 DBR	LIGHT		m/h 225-310 is d/e stub
225-212	225-211		405 JET CLEAN SAN/COMB MAINLINE	1/31/2002 DBR	HEAVY		
225-212	225-211		405 JET CLEAN SAN/COMB MAINLINE	5/7/2002 DBR	LIGHT		
225-210	225-211		405 JET CLEAN SAN/COMB MAINLINE	1/31/2002 DBR	HEAVY		
225-210	225-211		405 JET CLEAN SAN/COMB MAINLINE	5/7/2002 DBR	LIGHT		
225-206	225-207		405 JET CLEAN SAN/COMB MAINLINE	2/15/2001 DBR	HEAVY		
225-206	225-207		405 JET CLEAN SAN/COMB MAINLINE	2/22/2001 DBR	MEDIUM		
225-205	225-206		405 JET CLEAN SAN/COMB MAINLINE	2/15/2001 DBR	MEDIUM		
225-205	225-206		405 JET CLEAN SAN/COMB MAINLINE	2/23/2001 DBR	LIGHT		
225-201	225-202		405 JET CLEAN SAN/COMB MAINLINE	9/18/1998 DBR	MEDIUM		
225-201	225-202		405 JET CLEAN SAN/COMB MAINLINE	6/10/2005 GDR	MEDIUM		B/ROOTS, B/DEBRIS, B/GREASE
225-201	225-202		405 JET CLEAN SANITARY MAIN LINE - 225-201 225-202	6/6/2007 SLUDGE	MEDIUM		
225-199	225-200		405 JET CLEAN SAN/COMB MAINLINE	9/18/1998 DBR	MEDIUM		
225-199	225-200		405 JET CLEAN SAN/COMB MAINLINE	6/10/2005 DBR	MEDIUM		A/ROOTS, B/DEBRIS
225-198	225-199		405 JET CLEAN SAN/COMB MAINLINE	9/18/1998 DBR	MEDIUM		
225-198	225-199		405 JET CLEAN SANITARY MAIN LINE - 225-198 225-199	6/6/2007 SLUDGE	MEDIUM		
225-197	225-204		405 JET CLEAN SAN/COMB MAINLINE	4/4/2001 DBR	HEAVY		
225-197	225-204		405 JET CLEAN SANITARY MAIN - 225-197 225-204	5/8/2007 DEBRIS	LIGHT		
225-196	225-197		405 JET CLEAN SAN/COMB MAINLINE	6/23/2000 DBR	LIGHT		suck out about 1 wheel barrow of debris, saw someone left cement at the open line bottom m/h, was wrote note for flatbed crew take care it jetted and sucked.
225-196	225-197		405 JET CLEAN SAN/COMB MAINLINE - 72 MONTHS	8/7/2002 DBR	MEDIUM		
225-195	225-194		405 JET CLEAN SAN/COMB MAINLINE	5/8/2007 SAND	MEDIUM		
225-194	225-075		405 JET CLEAN SAN/COMB MAINLINE	8/6/2002 DBR	LIGHT		
225-192	225-307		405 JET CLEAN SAN/COMB MAINLINE	8/7/2002 DBR	MEDIUM		
225-192	225-307		405 JET CLEAN SAN/COMB MAINLINE	1/6/1998 SLG	LIGHT		
225-192	225-307		405 JET CLEAN SAN/COMB MAINLINE	10/29/2001 DBR	HEAVY		remove 1/16 yd sand & rocks

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
225-183	225-184	405	JET CLEAN SAN/COMB MAINLINE	8/15/2000	LIGHT	JETTED 6" LINE - LIGHT MATERIALS.	
225-183	225-184	405	JET CLEAN SAN/COMB MAINLINE	8/8/2006	DEBRIS	LIGHT	
225-181	225-196	405	JET CLEAN SAN/COMB MAINLINE	8/7/2002	DBR	MEDIUM	
225-180	225-183	405	JET CLEAN SAN/COMB MAINLINE	7/25/2000			
225-177	225-178	405	JET CLEAN SAN/COMB MAINLINE	5/13/1999	DBR	LIGHT	neglegable materials
225-175	225-177	405	JET CLEAN SAN/COMB MAINLINE	3/20/1997	SLG	LIGHT	LIGHT DEBRIS AND SAND
225-175	225-177	405	JET CLEAN SAN/COMB MAINLINE	12/21/1999	DBR	LIGHT	
225-175	225-177	405	JET CLEAN SAN/COMB MAINLINE	3/18/2003	DBR	LIGHT	
225-175	225-177	405	JET CLEAN SAN/COMB MAINLINE - 11256 EVANSTON AVE N	12/14/2005	SAND	MEDIUM	
225-174	225-176	405	JET CLEAN SAN/COMB MAINLINE	8/15/2000	LIGHT	JETTED 6" LINE FOR T.V.: LIGHT MATERIAL.	
225-148	225-149	405	JET CLEAN SAN/COMB MAINLINE	11/12/1999	GRS	MEDIUM	
225-148	225-149	405	JET CLEAN SAN/COMB MAINLINE	10/30/2002	GRS	LIGHT	
225-076	225-077	405	JET CLEAN SAN/COMB MAINLINE	1/31/2001	DBR	LIGHT	
225-074	225-075	405	JET CLEAN SAN/COMB MAINLINE	8/7/2002	DBR	MEDIUM	
225-072	225-071	405	JET CLEAN SAN/COMB MAINLINE	4/22/1999		LIGHT	INCOMPLETE RAN OUT OF WATER
225-072	225-071	405	JET CLEAN SAN/COMB MAINLINE	4/23/1999	DBR	HEAVY	
225-072	225-071	405	JET CLEAN SAN/COMB MAINLINE	5/26/1999	SND	HEAVY	heavy, heavy rocks
225-072	225-157	405	JET CLEAN SAN/COMB MAINLINE	7/18/2000	DBR	LIGHT	
225-072	225-071	405	JET CLEAN SAN/COMB MAINLINE	6/12/2002	DBR	MEDIUM	
225-072	225-071	405	JET CLEAN SANITARY MAIN LINE - 225-072 225-071	6/6/2007	SLUDGE	MEDIUM	
225-067	225-074	405	JET CLEAN SAN/COMB MAINLINE	8/6/2002	DBR	MEDIUM	
225-062	225-070	405	JET CLEAN SAN/COMB MAINLINE	7/15/1998	GRS		
225-062	225-070	405	JET CLEAN SAN/COMB MAINLINE	7/6/2001	DBR		
225-058	225-067	405	JET CLEAN SAN/COMB MAINLINE	8/1/2002	DBR	LIGHT	
225-054	225-064	405	JET CLEAN SAN/COMB MAINLINE	2/20/2008	DEBRIS	MEDIUM	
225-048	225-058	405	JET CLEAN SAN/COMB MAINLINE	8/1/2002	DBR	MEDIUM	
225-045	225-054	405	JET CLEAN SAN/COMB MAINLINE	2/21/2008	SLUDGE	LIGHT	
225-043	225-051	405	JET CLEAN SAN/COMB MAINLINE	12/21/1999	DBR	MEDIUM	
225-043	225-051	405	JET CLEAN SAN/COMB MAIN - 11732 GREENWOOD AVE N	12/14/2005	SLUDGE	MEDIUM	
225-040	225-048	405	JET CLEAN SAN/COMB MAINLINE	8/1/2002	DBR	LIGHT	
225-039	225-047	405	JET CLEAN SAN/COMB MAINLINE	8/17/1999	DBR	LIGHT	light materials
225-031	225-022	405	JET CLEAN SAN/COMB MAINLINE	2/15/2001	RAD	HEAVY	PUMPED OUT DEBRIS. NEED FLATBED TO REMOVE ROOTS FROM CHANNEL SO WE CAN GET THE HYDROCUTTER IN.
225-030	225-040	405	JET CLEAN SAN/COMB MAINLINE	7/30/2002	DBR	LIGHT	
225-025	225-026	405	JET CLEAN SAN/COMB MAINLINE	4/10/2000		NF	no debris
225-025	225-026	405	JET CLEAN SAN/COMB MAINLINE	4/14/2004		LIGHT	
225-023	225-024	405	JET CLEAN SAN/COMB MAINLINE	2/12/1999		LIGHT	
225-023	225-024	405	JET CLEAN SAN/COMB MAINLINE	12/28/2001	SLG	LIGHT	
225-020	225-030	405	JET CLEAN SAN/COMB MAINLINE	7/30/2002	DBR	LIGHT	
225-019	225-020	405	JET CLEAN SAN/COMB MAINLINE	7/30/2002	DBR	MEDIUM	
225-018	225-029	405	JET CLEAN SAN/COMB MAINLINE	3/13/2000	DBR	LIGHT	
225-018	225-029	405	JET CLEAN SAN/COMB MAINLINE - 72 MONTHS	5/8/2007	DEBRIS	LIGHT	
225-016	225-017	405	JET CLEAN SAN/COMB MAINLINE	8/8/2000	SLG	LIGHT	ASSIST T.V.
225-016	225-017	405	JET CLEAN SAN/COMB MAINLINE	10/2/2000	SLG	LIGHT	
225-016	225-017	405	JET CLEAN SAN/COMB MAINLINE - 36 MONTHS	10/27/2006	SAND	LIGHT	
225-013	225-014	405	JET CLEAN SAN/COMB MAINLINE	11/10/1999	DBR	MEDIUM	
225-007	225-008	405	JET CLEAN SAN/COMB MAINLINE	4/22/1997	GRS	LIGHT	LIGHT GREASE AND LIGHT SOLIDS
225-007	225-008	405	JET CLEAN SAN/COMB MAINLINE	4/18/2000	DBR	LIGHT	
225-007	225-008	405	JET CLEAN SAN/COMB MAINLINE	5/29/2003	DBR	MEDIUM	
225-007	225-008	405	JET CLEAN SAN/COMB MAINLINE - 36 MONTHS	5/8/2007	DEBRIS	MEDIUM	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM			COMMENTS
				COMPDTM	FOUND	SEVERITY	
225-006	225-023	405	JET CLEAN SAN/COMB MAINLINE	12/28/2001	SLG	LIGHT	
225-004	225-019	405	JET CLEAN SAN/COMB MAINLINE	7/30/2002	DBR	LIGHT	
224-381	224-315	405	JET CLEAN SAN/COMB MAINLINE - 224-381 224-315	7/13/2007	DEBRIS	LIGHT	
224-381	224-315	405	JET CLEAN SAN/COMB MAINLINE 224-381 224-315				
224-381	224-315	405	JET CLEAN SAN/COMB MAINLINE 224-381 224-315				
224-379	224-378	405	JET CLEAN SAN/COMB MAINLINE	11/14/2003	DBR	LIGHT	
224-378	224-303	405	JET CLEAN SAN/COMB MAINLINE	11/14/2003	DBR	LIGHT	8th ave nw from nw 108 to 1st m/h north
224-321	224-320	405	JET CLEAN SAN/COMB MAINLINE	6/14/2000	DBR	MEDIUM	for tv; jet and vac
224-321	224-320	405	JET CLEAN SAN/COMB MAINLINE	6/15/2000	SND	LIGHT	remove 1/16yd of sand & gravel for tv, dump debris at H/L
224-319	224-225	405	JET CLEAN SAN/COMB MAINLINE	9/19/2000	SLG	MEDIUM	MEDIUM SLUDGE & LIGHT DEBRIS
224-313	224-381	405	JET CLEAN SAN/COMB MAINLINE	3/15/1999	DBR	MEDIUM	
224-313	224-381	405	JET CLEAN SAN/COMB MAINLINE	2/8/2001	DBR	LIGHT	
224-313	224-381	405	JET CLEAN SAN/COMB MAINLINE	2/4/2002	GRS	MEDIUM	
224-313	224-381	405	JET CLEAN SAN/COMB MAINLINE	4/23/2003	MISC		jettied m/l from u/s. hose got stuck pulling back at 265'. metro m/l at 308', got hose.
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	4/11/1997	GRS	MEDIUM	
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	5/18/1998			
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	2/10/1999		LIGHT	
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	5/25/2000	GRS	HEAVY	
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	2/8/2001	DBR	LIGHT	
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	2/4/2002	GRS	MEDIUM	
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	3/10/2003	GRS	HEAVY	
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	9/11/2003			
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	2/18/2004		LIGHT	
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE	9/23/2005	DBR	LIGHT	zero to light debris
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE - 12 MONTHS	2/6/2007			
224-312	224-313	405	JET CLEAN SAN/COMB MAINLINE - 12 MONTHS	4/20/2007	SLUDGE	LIGHT	
224-308	224-311	405	JET CLEAN SAN/COMB MAINLINE	11/20/2003	DBR	LIGHT	
224-304	224-378	405	JET CLEAN SAN/COMB MAINLINE	12/2/1997	GRS	LIGHT	
224-304	224-378	405	JET CLEAN SAN/COMB MAINLINE	11/14/2003	DBR	LIGHT	
224-303	224-302	405	JET CLEAN SAN/COMB MAINLINE	3/9/1998			infrastructure has changed, please check any recent construction above carkeek
224-303	224-302	405	JET CLEAN SAN/COMB MAINLINE				ROD 207' OF 6" PIPE EXCAVATED 1' BY HAND EXPOSED MORE STEEL PIPE; REPLACE 4' WITH 6"PVC PIPE MINI 130' OF 6" STL PIPE; GRNDS TOO SOFT TO BACK FILL
224-296	224-295	405	JET CLEAN SAN/COMB MAINLINE	11/14/2003	DBR	LIGHT	
224-296	224-295	405	JET CLEAN SAN/COMB MAINLINE	3/15/1999	GRS	MEDIUM	
224-295	224-295	405	JET CLEAN SAN/COMB MAINLINE	3/6/2003	SLG	HEAVY	heavy sludge, medium grease
224-292	224-291	405	JET CLEAN SAN/COMB MAINLINE	5/31/2000	DBR	LIGHT	
224-291	224-290	405	JET CLEAN SAN/COMB MAINLINE	8/13/1997	SLG	LIGHT	
224-291	224-290	405	JET CLEAN SAN/COMB MAINLINE	7/10/2003	DBR	LIGHT	
224-275	224-273	405	JET CLEAN SAN/COMB MAINLINE 224-275 224-273	4/18/2008	SAND	HEAVY	
224-227	224-320	405	JET CLEAN SAN/COMB MAINLINE	6/14/2000	DBR	MEDIUM	for tv; jet and vac
224-227	224-320	405	JET CLEAN SAN/COMB MAINLINE	8/24/2004	DBR	LIGHT	
224-215	224-214	405	JET CLEAN SAN/COMB MAINLINE	3/19/1998	GRS	MEDIUM	MEDIUM SAND
224-215	224-214	405	JET CLEAN SAN/COMB MAINLINE	3/1/2000			
224-215	224-214	405	JET CLEAN SAN/COMB MAINLINE	3/28/2002			see 329683
224-215	224-214	405	JET CLEAN SAN/COMB MAINLINE	4/5/2004			
224-215	224-214	405	JET CLEAN SAN/COMB MAINLINE - 24 MONTHS	9/27/2006	SLUDGE	HEAVY	
224-214	224-213	405	JET CLEAN SAN/COMB MAINLINE	3/15/1999	DBR	MEDIUM	
224-214	224-213	405	JET CLEAN SAN/COMB MAINLINE	4/10/2002	RTS	MEDIUM	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM			COMMENTS
				COMPDTTM	FOUND	SEVERITY	
224-214	224-213	405 JET CLEAN SAN/COMB MAINLINE		9/30/2005	CLEAR	NF	slow & easy, very low pressure this is a reverse jet. zero to little debris.
224-208	224-209	405 JET CLEAN SAN/COMB MAINLINE		10/16/1998	DBR	LIGHT	
224-207	224-243	405 JET CLEAN SAN/COMB MAINLINE		11/10/1999	DBR	MEDIUM	
224-196	224-195	405 JET CLEAN FOR CCTV 224-196 224-195		8/6/2007			
224-188	224-020	405 JET CLEAN SAN/COMB MAINLINE		6/27/2001	DBR	MEDIUM	assisted pump station crews jetting lines at station #31; m/h's 224-373 to 224-372 and 224-372 to 224-375 - these m/h #'s are not in IMS.
224-183	224-182	405 JET CLEAN SAN/COMB MAINLINE		12/13/2001	DBR	LIGHT	BITTER LAKE - TV OUTFALL, TURNED OVER TO PARK DEPT. JET CREW CALLED TO ASSIST (DCH). CALLED OFF AFTER TO GETTING TO JOB SITE.
224-145	224-201	405 JET CLEAN SAN/COMB MAINLINE		7/3/1997	DBR	LIGHT	
224-145	224-201	405 JET CLEAN SAN/COMB MAINLINE		7/16/1997	SND	LIGHT	REMOVE HEAVY SAND & DEBRIS. RE-TV - A.S.A.P.
224-145	224-201	405 JET CLEAN SAN/COMB MAINLINE		7/15/1998	DBR	MEDIUM	
224-145	224-201	405 JET CLEAN SAN/COMB MAINLINE		1/7/2000	SND	HEAVY	heavy gravel, jet 50' for tv
224-145	224-201	405 JET CLEAN SAN/COMB MAINLINE		7/10/2000	SLG	HEAVY	heavy sludge, medium grease
224-145	224-201	405 JET CLEAN SAN/COMB MAINLINE		7/23/2002	DBR	LIGHT	
224-145	224-201	405 JET CLEAN SAN/COMB MAINLINE		8/23/2004	GRS	MEDIUM	medium grease, light rocks
224-145	224-201	405 JET CLEAN SAN/COMB MAINLINE 224-145 224-201		7/11/2006	ROOTS	LIGHT	
224-145	224-201	405 JET CLEAN -DEMAND RESPONSE-SEWER - 224-145 224-201		1/11/2008	DEBRIS	MEDIUM	
224-131	224-130	405 JET CLEAN SAN/COMB MAINLINE 224-145 224-201					
224-131	224-130	405 JET CLEAN SAN/COMB MAINLINE		11/10/1999	DBR	LIGHT	
224-131	224-130	405 JET CLEAN SAN/COMB MAINLINE		10/10/2002	DBR	MEDIUM	
224-131	224-130	405 JET CLEAN SAN/COMB MAINLINE		10/9/2003	DBR	LIGHT	
224-131	224-130	405 JET CLEAN SAN/COMB MAINLINE		11/14/2003	DBR	LIGHT	REOMVE DEBRIS
224-127	224-126	405 JET CLEAN SAN/COMB MAINLINE		5/11/1999	DBR	MEDIUM	
224-127	224-126	405 JET CLEAN SAN/COMB MAINLINE		7/6/2005	DBR	LIGHT	
224-120	224-151	405 JET CLEAN SAN/COMB MAINLINE		2/25/1998	SND	MEDIUM	
224-120	224-151	405 JET CLEAN SAN/COMB MAINLINE		2/12/2001	SLG	MEDIUM	medium sludge, light debris
224-120	224-151	405 JET CLEAN SAN/COMB MAINLINE		2/9/2004			
224-118	224-148	405 JET CLEAN SAN/COMB MAINLINE		3/18/1998	DBR	LIGHT	
224-118	224-148	405 JET CLEAN SAN/COMB MAINLINE		3/16/2001	DBR	HEAVY	
224-118	224-148	405 JET CLEAN SAN/COMB MAINLINE		4/5/2004			
224-118	224-148	405 JET CLEAN SAN/COMB MAINLINE		6/6/2007	SAND	MEDIUM	
224-113	224-133	405 JET CLEAN SAN/COMB MAINLINE		7/25/2000	SND	LIGHT	REMOVE LARGE ROCK; light materials; did as a 402
224-111	224-118	405 JET CLEAN SAN/COMB MAINLINE		3/18/1998	DBR	LIGHT	
224-111	224-118	405 JET CLEAN SAN/COMB MAINLINE		5/4/2001	DBR	HEAVY	
224-111	224-118	405 JET CLEAN SAN/COMB MAINLINE		5/20/2004	DBR	MEDIUM	
224-111	224-118	405 JET CLEAN SANITARY MAIN LINE - 224-111 224-118		6/6/2007	SAND	MEDIUM	
224-107	224-115	405 JET CLEAN SAN/COMB MAINLINE		3/27/1997	GRS	LIGHT	LIGHT DEBRIS AND GREASE
224-107	224-115	405 JET CLEAN SAN/COMB MAINLINE		1/15/2003	DBR	MEDIUM	
224-093	224-094	405 JET CLEAN SAN/COMB MAINLINE - 224-093 224-094		6/6/2007	DEBRIS	MEDIUM	
224-072	224-073	405 JET CLEAN SAN/COMB MAINLINE		10/17/2001	DBR	HEAVY	jet m/l for tv
224-072	224-073	405 JET CLEAN SAN/COMB MAINLINE		1/9/2003	DBR	MEDIUM	rod is in line - was unable to remove - need confine space.
224-042	224-104	405 HYDRO CUT -DEMAND RESPONSE-SEWER - 224-042 224-104		1/11/2008	GRS/DBR	LIGHT	
224-039	224-417	405 JET CLEAN SAN/COMB MAINLINE		3/26/1997	SND	MEDIUM	MEDIUM ROCK AND SAND IN LINE
224-039	224-417	405 JET CLEAN SAN/COMB MAINLINE		6/25/1997	DBR	LIGHT	Remove heavy debris and re-tv
224-039	224-417	405 JET CLEAN SAN/COMB MAINLINE		4/4/2001	DBR	MEDIUM	
224-039	224-417	405 JET CLEAN SAN/COMB MAINLINE		7/1/2005	DBR	MEDIUM	medium debris, paper, etc.
224-031	224-086	405 JET CLEAN SAN/COMB MAINLINE		3/25/2005	SND	HEAVY	
224-028	224-029	405 JET CLEAN SAN/COMB MAINLINE		5/31/2000	DBR	MEDIUM	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-011	224-012	405	JET CLEAN SAN/COMB MAINLINE		3/2/2001 MIN	LIGHT	light mineral dep. and materials
224-004	224-009	405	JET CLEAN SAN/COMB MAINLINE		5/31/2000 DBR	LIGHT	
219-327	225-001	405	JET CLEAN SAN/COMB MAINLINE		9/29/2000 SLG	MEDIUM	medium sludge, light debris - rodder called off for b/u
219-325	225-007	405	JET CLEAN SAN/COMB MAINLINE		3/6/2002 DBR	MEDIUM	medium rocks - 2 for 1
219-324	219-325	405	JET CLEAN SAN/COMB MAINLINE		5/28/1998 GRS	MEDIUM	
219-324	219-325	405	JET CLEAN SAN/COMB MAINLINE		5/6/1999	MEDIUM	
219-324	219-325	405	JET CLEAN SAN/COMB MAINLINE		5/10/2000 SLG	LIGHT	
219-324	219-325	405	JET CLEAN SAN/COMB MAINLINE		3/6/2002 DBR	MEDIUM	medium rocks - vactor out
219-324	219-325	405	JET CLEAN SAN/COMB MAINLINE		5/30/2002 DBR	MEDIUM	jet clean at low pressure twice - tough set up
219-324	219-325	405	JET CLEAN SAN/COMB MAINLINE		1/22/2004 DBR	MEDIUM	
219-324	219-325	405	JET CLEAN SAN/COMB MAINLINE - 12 MONTHS		3/2/2007 SLUDGE	MEDIUM	
219-324	219-325	405	JET CLEAN SANITARY MAIN - 219-324 219-325				
219-270	219-264	405	JET CLEAN SAN/COMB MAINLINE		1/16/2002 GAD	LIGHT	light grease and debris
219-269	219-277	405	JET CLEAN SAN/COMB MAINLINE - 72 MONTHS		3/2/2007 DEBRIS	LIGHT	
219-264	219-265	405	JET CLEAN SAN/COMB MAINLINE		1/16/2002 DBR	MEDIUM	found pieces of flexible hose
219-246	219-328	405	JET CLEAN SANITARY MAIN - 219-246 219-328		5/31/2007 SLUDGE	HEAVY	
219-244	219-245	405	JET CLEAN SAN/COMB MAINLINE		5/28/2003 DBR	LIGHT	jetted m/l defect
219-242	219-327	405	JET CLEAN SAN/COMB MAINLINE		10/14/1998 DBR	HEAVY	HEAVY DEBRIS, SAND, GRAVEL, ASPHALT.
219-242	219-327	405	JET CLEAN SAN/COMB MAINLINE		10/2/2000 SLG	HEAVY	
219-242	219-327	405	JET CLEAN SAN/COMB MAINLINE		10/23/2002 DBR	MEDIUM	
219-242	219-327	405	JET CLEAN SAN/COMB MAINLINE		3/14/2005 DBR	HEAVY	JET LINE, REMOVE B-C/SLUDGE AND 1/16 YARD OF SAND & GRAVEL
219-242	219-327	405	JET CLEAN SAN/COMB MAINLINE - 24 MONTHS		10/27/2006 DEBRIS	HEAVY	
219-241	219-242	405	JET CLEAN SAN/COMB MAINLINE		4/29/1998 DBR	HEAVY	REMOVE HEAVY DEBRIS. (208'ONLY)
219-241	219-242	405	JET CLEAN SAN/COMB MAINLINE		8/13/1998 MIN	LIGHT	
219-241	219-242	405	JET CLEAN SAN/COMB MAINLINE		8/9/2002 GRS	MEDIUM	medium grease, light materials
219-241	219-242	405	JET CLEAN SAN/COMB MAINLINE		5/28/2003 DBR	LIGHT	jetted m/l defect
219-241	219-242	405	JET CLEAN SAN/COMB MAINLINE 219-241 219-242		9/20/2006 DEBRIS	MEDIUM	
219-238	219-239	405	JET CLEAN SAN/COMB MAINLINE		3/2/1999 GRS	LIGHT	LIGHT GREASE AND LIGHT SLUDGE
219-238	219-239	405	JET CLEAN SAN/COMB MAINLINE		5/9/2001 DBR	HEAVY	
219-238	219-239	405	JET CLEAN SAN/COMB MAINLINE		5/20/2004 SLG	LIGHT	
219-238	219-239	405	JET CLEAN SAN/COMB MAINLINE - 24 MONTHS		3/27/2007 SLUDGE	MEDIUM	
219-237	219-241	405	JET CLEAN SAN/COMB MAINLINE		2/20/2002 DBR	MEDIUM	assist tv. jet & vactored
219-237	219-241	405	JET CLEAN SAN/COMB MAINLINE		3/18/2003 DBR	LIGHT	
219-237	219-241	405	JET CLEAN SAN/COMB MAINLINE		5/28/2003 DBR	LIGHT	jetted m/l defect
219-237	219-241	405	JET CLEAN SANITARY MAIN LINE - 219-237 219-241		3/2/2007 SLUDGE	HEAVY	
218-227	218-132	405	JET CLEAN SAN/COMB MAINLINE		5/3/2000 SLG	HEAVY	remove 1/16 yd of gravel, heavy sludge
218-227	218-132	405	JET CLEAN SAN/COMB MAINLINE		4/24/2002 GAD	MEDIUM	jet line for tv; medium debris, medium grease
218-197	218-199	405	JET CLEAN SAN/COMB MAINLINE		7/11/2000 SLG	HEAVY	heavy+ sludge, line was b/u due to heavy sludge
218-197	218-199	405	JET CLEAN SAN/COMB MAINLINE		7/11/2002 DBR	MEDIUM	
218-197	218-199	405	JET CLEAN SAN/COMB MAINLINE		8/19/2004 RTS	LIGHT	light roots and debris
218-197	218-199	405	JET CLEAN SAN/COMB MAINLINE 218-197 218-199		7/11/2006 DEBRIS	LIGHT	
218-192	218-191	405	JET CLEAN SAN/COMB MAINLINE		9/18/1997 GRS	LIGHT	REMOVE MED SAND AND GRAVEL.
218-192	218-191	405	JET CLEAN SAN/COMB MAINLINE		10/9/1998		JET CLEANED LINES IMPACTED FROM VANDALISM/ DUMPED TRUCK (LABOR AND EQUIP COSTED ON 218-144,143)[NO FOOTAGES GIVEN].
218-191	224-001	405	JET CLEAN SAN/COMB MAINLINE		8/18/1997 MISC		WASHED DOWN M/H'S & JET CLEANED LINE
218-188	218-226	405	JET CLEAN SAN/COMB MAINLINE		5/3/2000 SLG	HEAVY	remove 1/3 yd of gravel, heavy sludge
218-188	218-226	405	JET CLEAN SAN/COMB MAINLINE		4/24/2002 GAD	MEDIUM	jet line for tv; medium debris, medium grease
218-187	218-188	405	JET CLEAN SAN/COMB MAINLINE		5/7/1998 DBR	MEDIUM	
218-187	218-188	405	JET CLEAN SAN/COMB MAINLINE		6/25/2002 DBR	MEDIUM	medium materials

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM COMPDTM	FOUND	SEVERITY	COMMENTS
218-187	218-188	405	JET CLEAN SAN/COMB MAINLINE - 218-187 218-188	5/8/2007 GRS/DBR	MEDIUM		
218-173	218-174	405	JET CLEAN SAN/COMB MAINLINE	7/7/2003 DBR	LIGHT	jet line for tv trk 107	
218-161	224-026	405	JET CLEAN SAN/COMB MAINLINE	5/25/2001 DBR	MEDIUM	medium materials; jet and vac line for tv, multiple passes.	
218-157	218-156	405	JET CLEAN SAN/COMB MAINLINE	11/20/2002 DBR	MEDIUM	m/h 218-157 ok but need more rat bait	
218-156	218-155	405	JET CLEAN SAN/COMB MAINLINE	12/3/1998 DBR	LIGHT		
218-156	218-155	405	JET CLEAN SAN/COMB MAINLINE	2/19/2002 MIN	LIGHT	light mineral deposits and materials	
218-154	218-155	405	JET CLEAN SAN/COMB MAINLINE	6/14/2002 DBR	LIGHT		
218-153	218-152	405	JET CLEAN SAN/COMB MAINLINE	11/20/2002 DBR	LIGHT		
218-152	218-150	405	JET CLEAN SAN/COMB MAINLINE	3/25/2005 DBR	LIGHT		
218-149	218-146	405	JET CLEAN SAN/COMB MAINLINE	7/18/2000 DBR	MEDIUM		
218-149	218-146	405	JET CLEAN SAN/COMB MAINLINE	9/14/2005 GRS	LIGHT		
218-148	218-147	405	JET CLEAN SAN/COMB MAINLINE	7/19/2000 DBR	LIGHT	jet line for tv; light materials	
218-145	218-144	405	JET CLEAN SAN/COMB MAINLINE	9/16/1998 GRS	LIGHT		
218-145	218-144	405	JET CLEAN SAN/COMB MAINLINE	12/14/2004	HEAVY		
218-144	218-143	405	JET CLEAN SAN/COMB MAINLINE	10/9/1998			JET CLEANED LINES IMPACTED FROM VANDALISM/ DUMPED TRUCK. ALSO DID 218-192,191 (NO FOOTAGES WERE GIVEN)
218-143	218-192	405	JET CLEAN SAN/COMB MAINLINE	10/13/1998			LINE OK
218-143	218-192	405	JET CLEAN SAN/COMB MAINLINE	11/9/1999 GRS	MEDIUM		
218-143	218-192	405	JET CLEAN SAN/COMB MAINLINE	10/2/2000 MIN	LIGHT	light min. deposit, light sludge	
218-143	218-192	405	JET CLEAN SAN/COMB MAINLINE	10/24/2001 DBR	LIGHT		
218-143	218-192	405	JET CLEAN SAN/COMB MAINLINE	10/10/2002 GAD	MEDIUM	medium grease, light debris	
218-143	218-192	405	JET CLEAN SAN/COMB MAINLINE	4/28/2003 DBR	LIGHT		
218-143	218-192	405	JET CLEAN SAN/COMB MAINLINE	4/14/2004	MEDIUM		
218-143	218-192	405	JET CLEAN SAN/COMB MAINLINE	7/1/2005 CLEAR	NF	JETTED, clean, no debris	
218-142	218-143	405	JET CLEAN SAN/COMB MAINLINE	7/8/1997 GRS	LIGHT		
218-142	218-143	405	JET CLEAN SAN/COMB MAINLINE	9/18/2000 SLG	MEDIUM		
218-142	218-143	405	JET CLEAN SAN/COMB MAINLINE - 218-142 218-143	10/6/2006 GRS/DBR	LIGHT		
218-136	218-195	405	JET CLEAN SAN/COMB MAINLINE 218-136 218-195	4/22/2008 DEBRIS	LIGHT		
218-133	218-094	405	JET CLEAN SAN/COMB MAINLINE	3/29/1999 GRS	HEAVY	THIS IS A TEST	
218-133	218-094	405	JET CLEAN SAN/COMB MAINLINE	5/12/2000 DBR	MEDIUM		
218-132	218-133	405	JET CLEAN SAN/COMB MAINLINE	3/29/1999 GRS	HEAVY		
218-132	218-133	405	JET CLEAN SAN/COMB MAINLINE	5/12/2000 DBR	MEDIUM		
218-132	218-133	405	JET CLEAN SAN/COMB MAINLINE	3/21/2001 DBR	LIGHT		
218-129	218-128	405	JET CLEAN SAN/COMB MAINLINE	3/23/2001 GAD	MEDIUM	medium grease and debris	
218-125	218-126	405	JET CLEAN SAN/COMB MAINLINE	7/8/1997 SLG	LIGHT		
218-125	218-126	405	JET CLEAN SAN/COMB MAINLINE	8/19/2004 DBR	LIGHT		
218-108	218-107	405	JET CLEAN SAN/COMB MAINLINE	9/24/2001	NF	jetted 6" m/l with forward jet nozzle - no blockage in m/l.	
218-108	218-107	405	JET CLEAN SAN/COMB MAINLINE	11/26/2001 MIN	LIGHT	jet line for tv, light materials and mineral deposits	
218-107	218-106	405	JET CLEAN SAN/COMB MAINLINE	11/26/2001 MIN	MEDIUM	jet line for tv, medium mineral dep., light materials	
218-104	218-103	405	JET CLEAN SAN/COMB MAINLINE	2/9/1999	LIGHT		
218-104	218-103	405	JET CLEAN SAN/COMB MAINLINE	9/14/2005			no findings written on paperwork - u/s in alley, new gravel in alley - main cover 218-104 - near end of new gravel.
218-098	218-145	405	JET CLEAN SAN/COMB MAINLINE	3/15/1999 DBR	LIGHT		
218-098	218-145	405	JET CLEAN SAN/COMB MAINLINE	3/20/2002 DBR	MEDIUM	removed medium debris	
218-098	218-145	405	JET CLEAN SAN/COMB MAINLINE	10/28/2005 DBR	HEAVY		
218-097	218-098	405	JET CLEAN SAN/COMB MAINLINE	11/17/1998 DBR	HEAVY	REMOVE HEAVY DEBRIS.	
218-097	218-098	405	JET CLEAN SAN/COMB MAINLINE	3/20/2002 SND	LIGHT	light sand	
218-097	218-098	405	JET CLEAN SAN/COMB MAINLINE	10/28/2005 DBR	HEAVY		
218-096	218-097	405	JET CLEAN SAN/COMB MAINLINE	3/19/1998 DBR	MEDIUM	MEDIUM GRAVEL	
218-096	218-097	405	JET CLEAN SAN/COMB MAINLINE	8/3/2005 DBR	HEAVY	jetted heavy debris, pumped out water while tving line	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
218-096	218-097	405 JET CLEAN SAN/COMB MAINLINE - 218-096	218-097	9/20/2006 SLUDGE	LIGHT		
218-070	218-096	405 JET CLEAN SAN/COMB MAINLINE		3/19/1998 GRS	LIGHT	MEDIUM DEBRIS	
218-070	218-096	405 JET CLEAN SAN/COMB MAINLINE		3/20/2002 SLG	LIGHT		
218-070	218-096	405 JET CLEAN SAN/COMB MAINLINE - 36 MONTHS		5/8/2007 GRS/DBR	LIGHT		
225-324	225-034	403 MACHINE ROD SAN/COMB MAINLINE		5/5/1997 RTS	MEDIUM		
225-324	225-034	403 MACHINE ROD SAN/COMB MAINLINE		5/7/1999 RTS	LIGHT		
225-324	225-034	403 MACHINE ROD SAN/COMB MAINLINE		5/15/2001 RTS	LIGHT		
225-215	225-216	403 MACHINE ROD SAN/COMB MAINLINE		8/14/2000 RTS	LIGHT		
225-215	225-216	403 MACHINE ROD SAN/COMB MAINLINE		11/20/2004 RTS	MEDIUM		
225-209	225-210	403 MACHINE ROD SAN/COMB MAINLINE 225-209	225-210	12/6/2006 ROOTS	MEDIUM		
225-206	225-207	403 MACHINE ROD SAN/COMB MAINLINE		11/20/2004	HEAVY		
225-205	225-206	403 MACHINE ROD SAN/COMB MAINLINE		11/20/2004 RTS	RES		
225-200	225-201	403 MACHINE ROD SAN/COMB MAINLINE		12/4/2004 RTS	HEAVY		
225-197	225-204	403 MACHINE ROD SAN/COMB MAINLINE		11/20/2004 DBR	MEDIUM		
225-197	225-204	403 MACHINE ROD SAN/COMB MAINLINE - 24 MONTHS		3/30/2007 ROOTS	MEDIUM		
225-191	225-193	403 MACHINE ROD SAN/COMB MAINLINE		4/14/1998 RTS	MEDIUM		
225-191	225-193	403 MACHINE ROD SAN/COMB MAINLINE		4/9/2001 RTS	MEDIUM		
225-191	225-193	403 MACHINE ROD SAN/COMB MAINLINE		11/20/2004 RTS	MEDIUM		
225-180	225-183	403 MACHINE ROD SAN/COMB MAINLINE		1/23/2001	NF	no roots	
225-180	225-183	403 MACHINE ROD SAN/COMB MAINLINE		2/19/2005 RTS	MEDIUM		
225-168	225-170	403 MACHINE ROD SAN/COMB MAINLINE		6/15/1999 RTS	LIGHT		
225-168	225-170	403 MACHINE ROD SAN/COMB MAINLINE		6/14/2002 RTS	LIGHT		
225-156	225-168	403 MACHINE ROD SAN/COMB MAINLINE		11/7/1997 GRS	LIGHT		
225-156	225-168	403 MACHINE ROD SAN/COMB MAINLINE		6/1/1998		See w/o 336130	
225-156	225-168	403 MACHINE ROD SAN/COMB MAINLINE		6/15/1999 RTS	HEAVY		
225-156	225-168	403 MACHINE ROD SAN/COMB MAINLINE		6/16/2000 RTS	LIGHT	no parks have been picked up by 113	
225-156	225-168	403 MACHINE ROD SAN/COMB MAINLINE		6/29/2001 GAR	MEDIUM	medium grease, light roots	
225-156	225-168	403 MACHINE ROD SAN/COMB MAINLINE		6/14/2002 RTS	LIGHT		
225-149	225-150	403 MACHINE ROD SAN/COMB MAINLINE		6/8/1998 RTS	MEDIUM		
225-069	225-198	403 MACHINE ROD SAN/COMB MAINLINE		12/4/2004 RTS	HEAVY		
225-061	225-069	403 MACHINE ROD SAN/COMB MAINLINE		12/4/2004 RTS	MEDIUM		
225-061	225-069	403 MACHINE ROD SAN/COMB MAINLINE	225-061	225-069	9/14/2006 GR/DB/RT		
225-058	225-067	403 MACHINE ROD SAN/COMB MAINLINE		6/6/1997 RTS	HEAVY		
225-058	225-067	403 MACHINE ROD SAN/COMB MAINLINE		4/16/1999 RTS	MEDIUM		
225-058	225-067	403 MACHINE ROD SAN/COMB MAINLINE		4/9/2001 RTS	MEDIUM		
225-058	225-067	403 MACHINE ROD SAN/COMB MAINLINE		4/8/2003 RTS	LIGHT		
225-050	225-061	403 MACHINE ROD SAN/COMB MAINLINE		12/4/2004 RTS	HEAVY		
225-049	225-060	403 MACHINE ROD SAN/COMB MAINLINE		6/8/1998 RTS	MEDIUM		
225-049	225-060	403 MACHINE ROD SAN/COMB MAINLINE		11/14/2000 RTS	LIGHT		
225-049	225-060	403 MACHINE ROD SANITARY MAIN LINE - 225-049	225-060	6/5/2007 ROOTS	MEDIUM		
225-047	225-057	403 MACHINE ROD SAN/COMB MAINLINE		4/15/1999	LIGHT		
225-047	225-057	403 MACHINE ROD SAN/COMB MAINLINE		4/26/1999 NF	NF		
225-047	225-057	403 MACHINE ROD SAN/COMB MAINLINE		5/25/1999 RTS	LIGHT		
225-047	225-057	403 MACHINE ROD SAN/COMB MAINLINE		4/29/2005 RTS	LIGHT		
225-042	225-050	403 MACHINE ROD SAN/COMB MAINLINE		12/4/2004 RTS	HEAVY		
225-032	225-042	403 MACHINE ROD SANITARY MAIN LINE - 225-032	225-042	6/5/2007 ROOTS	HEAVY		
225-023	225-024	403 MACHINE ROD SAN/COMB MAINLINE		9/10/1999 RTS	MEDIUM		
225-011	225-324	403 MACHINE ROD SAN/COMB MAINLINE		5/5/1997 RTS	MEDIUM		
225-047	225-057	403 MACHINE ROD SAN/COMB MAINLINE				located #225-047, we think by looking at the s/s card there is no downstream m/h. just some bends. no m/h's at this location, just m/h id's 225-334 225-057.	
225-047	225-057	403 MACHINE ROD SAN/COMB MAINLINE				W/O 232812 WAS WRITTEN ON PAPER BUT WAS ALREADY COMPLETED IN APRIL 1999.	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM			COMMENTS
				COMPDTM	FOUND	SEVERITY	
225-011	225-324	403	MACHINE ROD SAN/COMB MAINLINE	5/7/1999	RTS	MEDIUM	
225-011	225-324	403	MACHINE ROD SAN/COMB MAINLINE	5/15/2001	RTS	LIGHT	
225-008	225-325	403	MACHINE ROD SAN/COMB MAINLINE	4/7/1999	GAR	MEDIUM	medium roots, light grease
225-008	225-325	403	MACHINE ROD SAN/COMB MAINLINE	4/16/2003	RTS	LIGHT	
225-008	225-325	403	MACHINE ROD SANITARY MAIN LINE - 225-008 225-325	3/30/2007	ROOTS	HEAVY	
224-413	224-093	403	MACHINE ROD SAN/COMB MAINLINE	2/26/2003	MISC		line has been changed to larger line - delete w/o.
224-412	224-413	403	MACHINE ROD SAN/COMB MAINLINE	7/1/2005			THIS RUN HAS BEEN REROUTED BUT WE DON'T HAVE THE NEW CONSTRUCTION ON OUR MAPS WE ROODER FROM M/H 224-091 TO THE SOUTH ATTEMPTO LOCATE HARD HAT AND PUSH IT OUT OF M/L. SEWER HARD HAT RETRIEVED□
							□
							OTHER W/O#S LOOKING FOR HARD HAT ARE: □
							□
							426606, 426607,
224-343	224-345	403	MACHINE ROD SAN/COMB MAINLINE	2/12/1998	RTS	LIGHT	
224-343	224-345	403	MACHINE ROD SAN/COMB MAINLINE	1/5/2000	RTS	LIGHT	
224-343	224-345	403	MACHINE ROD SAN/COMB MAINLINE	1/17/2002	RTS	LIGHT	
224-342	224-343	403	MACHINE ROD SAN/COMB MAINLINE	7/23/1998	RTS	MEDIUM	
224-342	224-343	403	MACHINE ROD SAN/COMB MAINLINE	7/11/2001	RTS	LIGHT	
224-342	224-343	403	MACHINE ROD SAN/COMB MAINLINE	11/20/2004	RTS	HEAVY	8" cutter broke off rods, retrieve with auger
224-341	224-337	403	MACHINE ROD SAN/COMB MAINLINE	11/20/2004	RTS	HEAVY	
224-341	224-337	403	MACHINE ROD SAN/COMB MAINLINE - 24 MONTHS	3/29/2007	ROOTS	LIGHT	
224-328	224-329	403	MACHINE ROD SAN/COMB MAINLINE	5/14/1998	RTS	LIGHT	
224-317	224-316	403	MACHINE ROD SAN/COMB MAINLINE	11/20/2004	RTS	RES	
224-317	224-316	403	MACHINE ROD SAN/COMB MAINLINE - 24 MONTHS	3/28/2007	ROOTS	HEAVY	
224-317	224-316	403	MACHINE ROD SAN/COMB MAINLINE - 24 MONTHS	3/26/2008	GRS/RTS	LIGHT	
224-308	224-311	403	MACHINE ROD SAN/COMB MAINLINE	2/11/1998	RTS	MEDIUM	
224-286	224-285	403	MACHINE ROD SAN/COMB MAINLINE	3/20/2002	MIN	LIGHT	light mineral deposits and roots
224-247	224-342	403	MACHINE ROD SAN/COMB MAINLINE	11/19/1997	RTS	MEDIUM	
224-247	224-342	403	MACHINE ROD SAN/COMB MAINLINE	7/7/1998	RTS	MEDIUM	
224-247	224-342	403	MACHINE ROD SAN/COMB MAINLINE	7/8/1999	RTS	LIGHT	WE LOST APP 3' OF RODS WITH CUTTER, WE RETRIEVE RODS & CUTTER, REPAIR ROD.
224-247	224-342	403	MACHINE ROD SAN/COMB MAINLINE	8/30/2000	RTS	LIGHT	
224-247	224-342	403	MACHINE ROD SAN/COMB MAINLINE	7/11/2001	RTS	LIGHT	
224-247	224-342	403	MACHINE ROD SAN/COMB MAINLINE	8/30/2002	RTS	MEDIUM	
224-247	224-342	403	MACHINE ROD SAN/COMB MAINLINE	12/4/2004	RTS	MEDIUM	
224-247	224-342	403	MACHINE ROD SAN/COMB MAINLINE 224-247 224-342	7/10/2006	ROOTS	HEAVY	
224-246	224-247	403	MACHINE ROD SAN/COMB MAINLINE	12/4/2004	RTS	HEAVY	
224-246	224-247	403	MACHINE ROD SAN/COMB MAINLINE - 24 MONTHS	3/29/2007	ROOTS	HEAVY	
224-241	224-242	403	MACHINE ROD SAN/COMB MAINLINE	2/12/1998	SLG	HEAVY	
224-241	224-242	403	MACHINE ROD SAN/COMB MAINLINE	12/28/2000	RTS	LIGHT	
224-241	224-242	403	MACHINE ROD SAN/COMB MAINLINE	12/4/2004	RTS	HEAVY	
224-238	224-233	403	MACHINE ROD SAN/COMB MAINLINE	10/30/1998	RTS	LIGHT	
224-238	224-233	403	MACHINE ROD SAN/COMB MAINLINE	11/21/2002	RTS	LIGHT	
224-238	224-233	403	MACHINE ROD SAN/COMB MAINLINE 224-238 224-233	12/6/2006	ROOTS	MEDIUM	
224-222	224-221	403	MACHINE ROD SAN/COMB MAINLINE	12/22/1998	RTS	LIGHT	LT RTS
224-222	224-221	403	MACHINE ROD SAN/COMB MAINLINE	12/4/2004	RTS	MEDIUM	LAST ROD CYCLE MISSED-PLEASE BE SURE THIS WORK ORDER IS COMPLETED.
224-215	224-214	403	MACHINE ROD SAN/COMB MAINLINE	12/4/2004	RTS	HEAVY	extra heavy roots
224-209	224-246	403	MACHINE ROD SAN/COMB MAINLINE	3/19/1998	RTS	LIGHT	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-209	224-246	403	MACHINE ROD SAN/COMB MAINLINE		3/22/2000 RTS	LIGHT	
224-209	224-246	403	MACHINE ROD SAN/COMB MAINLINE		3/12/2002 RTS	LIGHT	
224-209	224-246	403	MACHINE ROD SAN/COMB MAINLINE		12/4/2004 RTS	MEDIUM	
224-209	224-246	403	MACHINE ROD SANITARY MAIN LINE - 224-209 224-246		3/28/2007 GRS/RTS	LIGHT	
224-201	224-197	403	MACHINE ROD SAN/COMB MAINLINE		11/20/2004 RTS	HEAVY	
224-200	224-238	403	MACHINE ROD SAN/COMB MAINLINE		10/30/1998 RTS	MEDIUM	
224-200	224-238	403	MACHINE ROD SAN/COMB MAINLINE		11/21/2002 RTS	LIGHT	
224-200	224-238	403	MACHINE ROD SAN/COMB MAINLINE 224-200 224-238		12/6/2006 DEBRIS	MEDIUM	
224-197	224-356	403	MACHINE ROD SAN/COMB MAINLINE		1/27/1999 GRS	LIGHT	LIGHT ROOTS AND GREASE
224-197	224-356	403	MACHINE ROD SAN/COMB MAINLINE		11/20/2002 RTS	LIGHT	
224-197	224-356	403	MACHINE ROD SAN/COMB MAINLINE 224-197 224-356		12/6/2006 DEBRIS	LIGHT	
224-196	224-195	403	MACHINE ROD SAN/COMB MAINLINE		3/18/1999	MEDIUM	
224-196	224-195	403	MACHINE ROD SAN/COMB MAINLINE		3/31/1999 RTS	LIGHT	W/O 230789 WAS WRITTEN ON PAPER WORK BUT WAS ALREADY DONE 3/18/99?
224-196	224-195	403	MACHINE ROD SAN/COMB MAINLINE		3/6/2002 SLG	MEDIUM	
224-196	224-195	403	MACHINE ROD SAN/COMB MAINLINE		4/13/2005		medium sludge, light roots - assisted by trk 166
224-195	224-358	403	MACHINE ROD SAN/COMB MAINLINE		9/25/1998 RTS	LIGHT	no findings/info written on paperwork.
224-195	224-358	403	MACHINE ROD SAN/COMB MAINLINE		5/19/2000 DBR	LIGHT	153 ASSIST
224-195	224-358	403	MACHINE ROD SAN/COMB MAINLINE		4/23/2003 RTS	LIGHT	assisted by trk 3683
224-195	224-358	403	MACHINE ROD SAN/COMB MAINLINE - 36 MONTHS		3/29/2007 GRS/RTS	HEAVY	
224-172	224-171	403	MACHINE ROD SAN/COMB MAINLINE		6/25/2001	CANCL	see w/o 166540
224-171	224-165	403	MACHINE ROD SAN/COMB MAINLINE		6/25/2001	CANCL	see w/o 243231
224-171	224-165	403	MACHINE ROD SAN/COMB MAINLINE		9/25/2002 RTS	MEDIUM	med. roots, used hand rods.
224-146	224-147	403	MACHINE ROD SAN/COMB MAINLINE		12/7/1999 RTS	LIGHT	
224-146	224-147	403	MACHINE ROD SAN/COMB MAINLINE		11/20/2004 RTS	HEAVY	
224-136	224-134	403	MACHINE ROD SAN/COMB MAINLINE		7/7/1998 RTS	MEDIUM	
224-136	224-134	403	MACHINE ROD SAN/COMB MAINLINE		7/12/2002 RTS	MEDIUM	
224-136	224-134	403	MACHINE ROD SAN/COMB MAINLINE - 48 MONTHS		7/29/2006 ROOTS	MEDIUM	
224-134	224-133	403	MACHINE ROD SAN/COMB MAINLINE		7/10/1998 RTS	MEDIUM	
224-134	224-133	403	MACHINE ROD SAN/COMB MAINLINE		7/12/2002 RTS	MEDIUM	
224-134	224-133	403	MACHINE ROD SAN/COMB MAINLINE - 48 MONTHS		7/29/2006 ROOTS	MEDIUM	
224-122	224-121	403	MACHINE ROD SAN/COMB MAINLINE		5/15/1998 RTS	HEAVY	
224-122	224-121	403	MACHINE ROD SAN/COMB MAINLINE		5/11/2001 RTS	LIGHT	
224-122	224-121	403	MACHINE ROD SAN/COMB MAINLINE		11/20/2004 GAR	LIGHT	
224-117	224-146	403	MACHINE ROD SAN/COMB MAINLINE		4/30/1998 RTS	MEDIUM	
224-117	224-146	403	MACHINE ROD SAN/COMB MAINLINE		6/8/2000 RTS	MEDIUM	
224-117	224-146	403	MACHINE ROD SAN/COMB MAINLINE		7/16/2003 RTS	MEDIUM	
224-117	224-146	403	MACHINE ROD SAN/COMB MAINLINE - 36 MONTHS		3/28/2007 GRS/RTS	HEAVY	
224-116	224-144	403	MACHINE ROD SAN/COMB MAINLINE		2/3/1998 RTS	MEDIUM	
224-109	224-117	403	MACHINE ROD SAN/COMB MAINLINE		6/8/2000 RTS	MEDIUM	
224-109	224-117	403	MACHINE ROD SAN/COMB MAINLINE		7/16/2003 RTS	LIGHT	
224-109	224-117	403	MACHINE ROD SAN/COMB MAINLINE - 36 MONTHS		3/28/2007 GRS/RTS	MEDIUM	
224-103	224-418	403	MACHINE ROD SAN/COMB MAINLINE		5/7/1999 RTS	LIGHT	
224-103	224-418	403	MACHINE ROD SAN/COMB MAINLINE		5/14/2003 RTS	LIGHT	
224-103	224-418	403	MACHINE ROD SAN/COMB MAINLINE - 224-103 224-418		5/8/2007 ROOTS	LIGHT	
224-093	224-094	403	MACHINE ROD SAN/COMB MAINLINE		7/1/2005 MISC		
224-085	224-158	403	MACHINE ROD SAN/COMB MAINLINE		10/23/1998 RTS	LIGHT	
224-085	224-158	403	MACHINE ROD SAN/COMB MAINLINE		1/22/2002 RTS	MEDIUM	
							lost hardhat in m/h several runs upstream - TV assisted to find it. used rodder truck to retrieve hard hat successfully. (5 hours OT)

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM			COMMENTS
				COMPDTM	FOUND	SEVERITY	
224-085	224-158	403	MACHINE ROD SAN/COMB MAINLINE	8/25/2005	RTS	HEAVY	
224-084	224-085	403	MACHINE ROD SAN/COMB MAINLINE	8/25/2005	RTS	HEAVY	
224-081	224-082	403	MACHINE ROD SAN/COMB MAINLINE	12/29/1998		MEDIUM	
224-065	224-066	403	MACHINE ROD SAN/COMB MAINLINE	1/12/1998	RTS	LIGHT	U/S MH IS DROP MH
224-064	224-065	403	MACHINE ROD SAN/COMB MAINLINE	1/12/1998	RTS	LIGHT	
224-047	224-048	403	MACHINE ROD SAN/COMB MAINLINE	7/10/1997	RTS	LIGHT	
224-047	224-048	403	MACHINE ROD SAN/COMB MAINLINE	8/17/2001	RTS	MEDIUM	assisted by trk 3652 (flagging)
224-047	224-048	403	MACHINE ROD SAN/COMB MAINLINE - 48 MONTHS	7/29/2006	ROOTS	MEDIUM	
224-046	224-047	403	MACHINE ROD SAN/COMB MAINLINE	10/6/1997	RTS	LIGHT	
224-031	224-086	403	MACHINE ROD SAN/COMB MAINLINE	12/16/1999	RTS	MEDIUM	
224-018	224-019	403	MACHINE ROD SAN/COMB MAINLINE	2/7/2001	RTS	LIGHT	
224-018	224-019	403	MACHINE ROD SAN/COMB MAINLINE - 60 MONTHS	3/29/2007	ROOTS	MEDIUM	
219-338	219-337	403	MACHINE ROD SAN/COMB MAINLINE	7/7/1998	RTS	MEDIUM	
219-338	219-337	403	MACHINE ROD SAN/COMB MAINLINE	4/6/2004			
219-270	219-264	403	MACHINE ROD SAN/COMB MAINLINE	1/15/2002	RTS	LIGHT	
219-253	219-254	403	MACHINE ROD SAN/COMB MAINLINE	1/21/1997	BAC		
219-253	219-254	403	MACHINE ROD SAN/COMB MAINLINE	2/14/1997	GRS	HEAVY	we lost cutter; retrieve cutter Rodded m/l and relieved b/u. Roots and rags were causing blockage at 13' from d/s m/h. M/l needs to be root cut and u/s washed down. Unknown if anybody was backed up. MACHINE ROD FOR TV; HEAVY GREASE AND ROOTS 8" M/L
219-253	219-254	403	MACHINE ROD SAN/COMB MAINLINE	7/28/1999			dye out small void unable to dye out there no s/s connections by our m/l.
219-240	219-324	403	MACHINE ROD SAN/COMB MAINLINE	5/12/1998	GRS	LIGHT	
219-240	219-324	403	MACHINE ROD SAN/COMB MAINLINE	6/7/2001	DBR	MEDIUM	heavy traffic
218-227	218-132	403	MACHINE ROD SAN/COMB MAINLINE	9/14/2001	RTS	MEDIUM	medium roots and sludge, set up confine space. assisted by trk 112.
218-203	224-046	403	MACHINE ROD SAN/COMB MAINLINE	10/6/1997	RTS	MEDIUM	
218-203	224-046	403	MACHINE ROD SAN/COMB MAINLINE	8/17/2001	RTS	MEDIUM	assisted by trk 3652 (flagging)
218-197	218-199	403	MACHINE ROD SAN/COMB MAINLINE	7/11/2000	RTS	LIGHT	
218-171	218-172	403	MACHINE ROD SAN/COMB MAINLINE	2/3/1998	RTS	MEDIUM	
218-171	218-172	403	MACHINE ROD SAN/COMB MAINLINE	12/9/1998	RTS	LIGHT	
218-171	218-172	403	MACHINE ROD SAN/COMB MAINLINE	1/3/2001	RTS	LIGHT	incl 403; rodded 8" line, needs 200' more nothing in this line
218-171	218-172	403	MACHINE ROD SAN/COMB MAINLINE	1/24/2001			
218-165	218-164	403	MACHINE ROD SAN/COMB MAINLINE	12/16/1999	RTS	LIGHT	
218-163	218-160	403	MACHINE ROD SANITARY MAIN LINE - 218-163 218-160	6/5/2007	SAND	LIGHT	
218-133	218-094	403	MACHINE ROD SAN/COMB MAINLINE	5/25/2001	GRS	HEAVY	u/s and d/s setups
218-133	218-094	403	MACHINE ROD SAN/COMB MAINLINE - 60 MONTHS	5/8/2007	ROOTS	LIGHT	
218-122	218-121	403	MACHINE ROD SAN/COMB MAINLINE	9/30/2000	BAC	NF	WENT ALL THE WAY TO D/E M/H 190 FT OF ROD. ALL CLEAR. TALKED TO CUSTOMER S/S PROBLEM.
218-112	218-111	403	MACHINE ROD SAN/COMB MAINLINE	6/29/1998	RTS	MEDIUM	
218-112	218-111	403	MACHINE ROD SAN/COMB MAINLINE	1/19/2000	RTS	LIGHT	
218-112	218-111	403	MACHINE ROD SAN/COMB MAINLINE	1/15/2002	RTS	LIGHT	
218-112	218-111	403	MACHINE ROD SAN/COMB MAINLINE	1/2/2004	RTS	MEDIUM	
218-112	218-111	403	MACHINE ROD SAN/COMB MAINLINE - 218-112 218-111	5/8/2007	ROOTS	LIGHT	
218-111	218-110	403	MACHINE ROD SAN/COMB MAINLINE	6/6/2000	RTS	LIGHT	
218-111	218-110	403	MACHINE ROD SAN/COMB MAINLINE - 72 MONTHS	5/8/2007	ROOTS	MEDIUM	
218-110	218-109	403	MACHINE ROD SAN/COMB MAINLINE	6/6/2000	RTS	LIGHT	
218-110	218-109	403	MACHINE ROD SAN/COMB MAINLINE - 72 MONTHS	5/8/2007	ROOTS	MEDIUM	
218-096	218-097	403	MACHINE ROD SAN/COMB MAINLINE	5/5/1999		LIGHT	
218-096	218-097	403	MACHINE ROD SAN/COMB MAINLINE	9/28/2001	RTS	MEDIUM	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
218-096	218-097	403	MACHINE ROD SAN/COMB MAINLINE		5/11/2005 DBR	HEAVY	13021 12 Av NW. relieved backup in line (w/o 421268). Continued to rod mainline.
231-045	224-311	402	HYDROCUT SAN/COMB MAINLINE - 231-045 224-311		5/21/2006 GREASE	HEAVY	
225-354	225-239	402	HYDROCUT COMBINED MAIN LINE - 225-354 225-239		6/6/2007 RTS/DBR	LIGHT	
225-345	225-213	402	HYDROCUT SAN/COMB MAINLINE		10/9/2003 RTS	MEDIUM	note: m/h 225-213 needs to be located & exposed for future hydrocutting from m/h 225-214.
225-325	225-033	402	HYDROCUT SAN/COMB MAINLINE		3/9/1999		HYDROCUT 8" LINE FOR TV - NO GROUT
225-238	225-354	402	HYDROCUT SAN/COMB MAINLINE		1/7/1999	LIGHT	
225-238	225-354	402	HYDROCUT SAN/COMB MAINLINE		2/25/2002 DBR	HEAVY	
225-238	225-354	402	HYDROCUT SANITARY MAIN LINE - 225-238 225-354		6/6/2007 GREASE	LIGHT	
225-213	225-214	402	HYDROCUT SAN/COMB MAINLINE		10/9/2003 RTS	MEDIUM	needed to hydrocut this line for access to w/o 367277.
225-212	225-211	402	HYDROCUT SAN/COMB MAINLINE		10/16/2002 RTS	LIGHT	
225-212	225-211	402	HYDROCUT SANITARY MAIN LINE - 225-212 225-211		6/6/2007 GRS/RTS	LIGHT	
225-209	225-210	402	HYDROCUT SAN/COMB MAINLINE		12/4/1997 RTS	LIGHT	Remove heavy roots TODAY
225-209	225-210	402	HYDROCUT SAN/COMB MAINLINE		11/3/1999 MIN	MEDIUM	medium mineral dep., light roots
225-209	225-210	402	HYDROCUT SAN/COMB MAINLINE		11/13/2001 RTS	MEDIUM	
225-206	225-207	402	HYDROCUT SAN/COMB MAINLINE		3/12/1998 GRS	MEDIUM	
225-206	225-207	402	HYDROCUT SAN/COMB MAINLINE		3/9/2001 RTS	LIGHT	
225-205	225-206	402	HYDROCUT SAN/COMB MAINLINE		1/15/1997 RTS	MEDIUM	Remove heavy roots, See photo
225-205	225-206	402	HYDROCUT SAN/COMB MAINLINE		3/12/1998 GRS	MEDIUM	MEDIUM RTS AS WELL
225-205	225-206	402	HYDROCUT SAN/COMB MAINLINE		3/9/2001 RTS	LIGHT	
225-203	225-208	402	HYDROCUT SAN/COMB MAINLINE		5/9/2000 RTS	LIGHT	
225-203	225-208	402	HYDROCUT SAN/COMB MAINLINE - 225-203 225-208		3/16/2007 DEBRIS	LIGHT	
225-200	225-201	402	HYDROCUT SAN/COMB MAINLINE		9/30/1998 RTS	LIGHT	
225-200	225-201	402	HYDROCUT SAN/COMB MAINLINE		10/3/2001 RTS	LIGHT	
225-197	225-204	402	HYDROCUT SAN/COMB MAINLINE		10/10/1997 RTS	LIGHT	
225-197	225-204	402	HYDROCUT SAN/COMB MAINLINE		4/10/1998 RTS	LIGHT	
225-197	225-204	402	HYDROCUT SAN/COMB MAINLINE		4/1/1999 RTS	LIGHT	
225-197	225-204	402	HYDROCUT SAN/COMB MAINLINE		4/4/2000 RTS	MEDIUM	
225-197	225-204	402	HYDROCUT SAN/COMB MAINLINE		3/28/2001 GAR	LIGHT	light grease and roots
225-197	225-204	402	HYDROCUT SAN/COMB MAINLINE		4/3/2002 GAR	LIGHT	light grease and roots
225-197	225-204	402	HYDROCUT SAN/COMB MAINLINE		7/31/2003 GAR	LIGHT	light grease and roots
225-168	225-170	402	HYDROCUT SAN/COMB MAINLINE		9/9/2004 RTS	MEDIUM	
225-168	225-170	402	HYDROCUT SAN/COMB MAINLINE 225-168 225-170		8/29/2006 ROOTS	MEDIUM	
225-156	225-168	402	HYDROCUT SAN/COMB MAINLINE		9/3/2003 GAR	LIGHT	Cut 8"line; A grease, A roots
225-156	225-168	402	HYDROCUT SAN/COMB MAINLINE		6/9/2004 GRS	MEDIUM	
225-156	225-168	402	HYDROCUT SAN/COMB MAINLINE - 225-156 225-168		6/13/2006 GREASE	MEDIUM	
225-156	225-168	402	HYDROCUT SAN/COMB MAINLINE - 225-156 225-168		3/14/2007 SLUDGE	LIGHT	
225-149	225-150	402	HYDROCUT SAN/COMB MAINLINE - 225-149 225-150		9/27/2006 GRS/RTS	LIGHT	
225-069	225-198	402	HYDROCUT SAN/COMB MAINLINE		9/30/1998 RTS	LIGHT	LIGHT ROOTS & DEBRIS
225-069	225-198	402	HYDROCUT SAN/COMB MAINLINE		10/3/2001 RTS	LIGHT	
225-068	225-076	402	HYDROCUT SAN/COMB MAINLINE		11/20/2004 DBR	HEAVY	
225-061	225-069	402	HYDROCUT SAN/COMB MAINLINE		9/30/1998 RTS	LIGHT	LIGHT ROOTS & DEBRIS
225-061	225-069	402	HYDROCUT SAN/COMB MAINLINE		10/19/2000 GAR	LIGHT	LIGHT GREASE & ROOTS
225-061	225-069	402	HYDROCUT SAN/COMB MAINLINE		12/2/2002 RTS	LIGHT	
225-060	225-068	402	HYDROCUT SAN/COMB MAINLINE		11/20/2004 DBR	HEAVY	heavy debris, light roots
225-058	225-067	402	HYDROCUT SAN/COMB MAINLINE		10/25/2005 RTS	MEDIUM	
225-058	225-067	402	HYDROCUT SANITARY MAIN LINE - 225-058 225-067		5/8/2007 DEBRIS	LIGHT	
225-050	225-061	402	HYDROCUT SAN/COMB MAINLINE		9/30/1998 RTS	MEDIUM	
225-050	225-061	402	HYDROCUT SAN/COMB MAINLINE		10/2/2001 RTS	LIGHT	
225-042	225-050	402	HYDROCUT SAN/COMB MAINLINE		9/30/1998 RTS	MEDIUM	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
225-042	225-050	402	HYDROCUT SAN/COMB MAINLINE		10/2/2001 RTS	LIGHT	
225-039	225-047	402	HYDROCUT SAN/COMB MAINLINE		7/14/1999 RTS	MEDIUM	
225-039	225-047	402	HYDROCUT SAN/COMB MAINLINE		10/29/2005 RTS	HEAVY	
225-032	225-042	402	HYDROCUT SAN/COMB MAINLINE		2/12/1999	MEDIUM	
225-024	225-032	402	HYDROCUT SAN/COMB MAINLINE		10/2/2001 RTS	LIGHT	
225-024	225-032	402	HYDROCUT SANITARY MAIN LINE - 225-024 225-032		6/12/2007 GR/DB/RT	MEDIUM	
225-022	225-024	402	HYDROCUT SAN/COMB MAINLINE		10/25/2005		locate d/s m/h (covered), reverse cut due to d/s on easement. no findings written on paperwork
225-006	225-023	402	HYDROCUT SAN/COMB MAINLINE		10/2/1998 RTS	LIGHT	
225-006	225-023	402	HYDROCUT SAN/COMB MAINLINE		10/3/2001 RTS	LIGHT	locate, expose and cut 8" run
224-341	224-337	402	HYDROCUT SAN/COMB MAINLINE		4/9/1997 RTS	LIGHT	
224-341	224-337	402	HYDROCUT SAN/COMB MAINLINE		3/17/2000 RTS	LIGHT	
224-341	224-337	402	HYDROCUT SAN/COMB MAINLINE		6/10/2003 RTS	HEAVY	heavy roots, multiple passes
224-317	224-316	402	HYDROCUT SAN/COMB MAINLINE		9/2/2003 GAR	MEDIUM	Cut 8" line; B-Roots & A-Grease
224-317	224-316	402	HYDROCUT SAN/COMB MAINLINE 224-317 224-316		12/7/2007 GRS/RTS	LIGHT	
224-312	224-313	402	HYDROCUT SAN/COMB MAINLINE		9/11/2003 RTS	LIGHT	
224-312	224-313	402	HYDROCUT SAN/COMB MAINLINE - 60 MONTHS		1/18/2007 GR/DB/RT	MEDIUM	
224-309	224-310	402	HYDROCUT SAN/COMB MAINLINE		4/3/1997 RTS	LIGHT	
224-309	224-310	402	HYDROCUT SAN/COMB MAINLINE		4/3/1997 RTS	LIGHT	
224-303	224-302	402	HYDROCUT SAN/COMB MAINLINE		7/23/1999 MISC		CUT SMALL PIECE OF GROUT OUT OF INVERT OF PIPE & RE-TV./ we set up at new m/h to do this run, 40' to m/h 303, remove grout we hope!!
224-296	224-295	402	HYDROCUT SANITARY MAIN LINE - 224-296 224-295		2/28/2007 GREASE	MEDIUM	
224-286	224-285	402	HYDROCUT SAN/COMB MAINLINE - 224-286 224-285		2/9/2008 ROOTS	HEAVY	
224-246	224-247	402	HYDROCUT SAN/COMB MAINLINE		10/13/1997 RTS	MEDIUM	
224-246	224-247	402	HYDROCUT SAN/COMB MAINLINE		3/12/1998 GRS	MEDIUM	LIGHT RTS
224-246	224-247	402	HYDROCUT SAN/COMB MAINLINE		3/17/1999 GRS	LIGHT	light grease and roots
224-246	224-247	402	HYDROCUT SAN/COMB MAINLINE		3/17/2000 RTS	LIGHT	
224-246	224-247	402	HYDROCUT SAN/COMB MAINLINE		3/19/2001 GAR	MEDIUM	
224-246	224-247	402	HYDROCUT SAN/COMB MAINLINE		3/18/2002 RTS	MEDIUM	
224-246	224-247	402	HYDROCUT SAN/COMB MAINLINE		7/1/2003 DBR	MEDIUM	medium roots, light grease
224-215	224-214	402	HYDROCUT SAN/COMB MAINLINE		3/12/1998 RTS	MEDIUM	
224-215	224-214	402	HYDROCUT SAN/COMB MAINLINE		3/1/2000		
224-215	224-214	402	HYDROCUT SAN/COMB MAINLINE		4/10/2002 RTS	HEAVY	
224-215	224-214	402	HYDROCUT SAN/COMB MAINLINE - 224-215 224-214		3/14/2007 ROOTS	HEAVY	
224-201	224-197	402	HYDROCUT SAN/COMB MAINLINE		7/13/2000 GRS	LIGHT	
224-138	224-139	402	HYDROCUT SAN/COMB MAINLINE		3/22/2002 RTS	LIGHT	assisted by trk 3672 (traffic control)
224-120	224-151	402	HYDROCUT SAN/COMB MAINLINE - 224-120 224-151		2/8/2007 SLUDGE	LIGHT	
224-095	224-086	402	HYDROCUT SAN/COMB MAINLINE		11/12/1997 MIN	LIGHT	
224-095	224-086	402	HYDROCUT SAN/COMB MAINLINE		8/14/2003 MIN	MEDIUM	
224-033	224-034	402	HYDROCUT SAN/COMB MAINLINE		12/23/2004	HEAVY	
219-338	219-337	402	HYDROCUT SAN/COMB MAINLINE - 48 MONTHS		7/29/2006 GRS/RTS	MEDIUM	
219-327	225-001	402	HYDROCUT SAN/COMB MAINLINE		10/17/1997 GRS	LIGHT	
219-327	225-001	402	HYDROCUT SAN/COMB MAINLINE		10/24/2000 RTS	LIGHT	
219-268	219-269	402	HYDROCUT SAN/COMB MAINLINE		1/28/2003 GRS	MEDIUM	
219-268	219-269	402	HYDROCUT SAN/COMB MAINLINE		12/2/2003 GRS	MEDIUM	
219-268	219-269	402	HYDROCUT SAN/COMB MAINLINE		10/15/2005 GRS	HEAVY	
219-268	219-269	402	HYDROCUT SAN/COMB MAINLINE-909 N 130TH ST-12 MONTH		12/21/2005 GREASE	HEAVY	
219-268	219-269	402	HYDROCUT SAN/COMB MAINLINE - 219-268 219-269		12/12/2006 GREASE	MEDIUM	
219-253	219-254	402	HYDROCUT SAN/COMB MAINLINE		3/4/1997 GRS	LIGHT	LIGHT ROOTS AND LIGHT GREASE
219-253	219-254	402	HYDROCUT SAN/COMB MAINLINE		10/17/1997 RTS	MEDIUM	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM			COMMENTS
				COMPDTM	FOUND	SEVERITY	
219-253	219-254	402	HYDROCUT SAN/COMB MAINLINE	4/6/1999	RTS	LIGHT	
219-253	219-254	402	HYDROCUT SAN/COMB MAINLINE	4/3/2001	GAR	MEDIUM	medium roots and grease
219-253	219-254	402	HYDROCUT SAN/COMB MAINLINE	6/18/2003	GAR	MEDIUM	medium grease, light roots
219-253	219-254	402	HYDROCUT SAN/COMB MAINLINE	10/22/2005	RTS	MEDIUM	medium roots and debris
219-253	219-254	402	HYDROCUT SANITARY MAIN LINE - 219-253 219-254	5/11/2007	RTS/DBR	HEAVY	
218-227	218-132	402	HYDROCUT SAN/COMB MAINLINE	6/30/1997	RTS	LIGHT	
218-227	218-132	402	HYDROCUT SAN/COMB MAINLINE	5/13/1998	RTS	LIGHT	
218-227	218-132	402	HYDROCUT SAN/COMB MAINLINE	5/14/1999		LIGHT	
218-227	218-132	402	HYDROCUT SAN/COMB MAINLINE	9/14/2001			completed as a 403.
218-227	218-132	402	HYDROCUT SAN/COMB MAINLINE	5/15/2002	GAR	MEDIUM	medium roots, light grease
218-227	218-132	402	HYDROCUT SAN/COMB MAINLINE	10/15/2005	GRS	MEDIUM	
218-226	218-227	402	HYDROCUT COMBINED MAIN LINE - 218-226 218-227	6/1/2007	GRS/RTS	MEDIUM	
218-208	218-209	402	HYDROCUT SAN/COMB MAINLINE	10/2/2003	GRS	MEDIUM	
218-197	218-199	402	HYDROCUT SAN/COMB MAINLINE	3/12/1997	RTS	LIGHT	
218-197	218-199	402	HYDROCUT SAN/COMB MAINLINE	10/10/1997	NF	CLEAR	
218-197	218-199	402	HYDROCUT SAN/COMB MAINLINE	1/28/1998	RTS	LIGHT	
218-197	218-199	402	HYDROCUT SAN/COMB MAINLINE	1/5/1999		LIGHT	
218-192	218-191	402	HYDROCUT SAN/COMB MAINLINE	12/2/2005	RTS	LIGHT	rain & snow, heavy h2o flow.
218-188	218-226	402	HYDROCUT SAN/COMB MAINLINE	10/15/1997	SLG	MEDIUM	
218-188	218-226	402	HYDROCUT SAN/COMB MAINLINE	5/13/1998	RTS	LIGHT	
218-188	218-226	402	HYDROCUT SAN/COMB MAINLINE	5/14/1999		LIGHT	
218-188	218-226	402	HYDROCUT SAN/COMB MAINLINE	8/23/2001	SLG	MEDIUM	hydrocut card did as rodding card; medium sludge, light roots
218-188	218-226	402	HYDROCUT SAN/COMB MAINLINE	8/19/2003	GAR	LIGHT	light grease and roots
218-188	218-226	402	HYDROCUT SANITARY MAIN LINE - 218-188 218-226	6/1/2007	GREASE	MEDIUM	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	3/12/1997	GRS	LIGHT	LIGHT ROOTS AND LIGHT GREASE
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	1/28/1998	GRS	LIGHT	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	1/7/1999		LIGHT	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	1/10/2000	GRS	LIGHT	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	1/19/2001	GRS	LIGHT	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	1/4/2002	GRS	MEDIUM	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	1/24/2003	GRS	MEDIUM	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	10/7/2003	GRS	HEAVY	heavy grease, need to tv, referred by trk 114.
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	1/16/2004	GRS	MEDIUM	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE	7/7/2005	GRS	HEAVY	B-C/GREASE
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE - 218-182 218-208	5/25/2006	GREASE	MEDIUM	
218-182	218-208	402	HYDROCUT SAN/COMB MAINLINE - 218-182 218-208	1/8/2007	GR/DB/RT	LIGHT	
218-163	218-160	402	HYDROCUT SAN/COMB MAINLINE	7/21/2000	RTS	LIGHT	
218-163	218-160	402	HYDROCUT SAN/COMB MAINLINE	7/2/2003	RTS	MEDIUM	
218-143	218-192	402	HYDROCUT SAN/COMB MAINLINE	8/19/1997	GRS	MEDIUM	
218-143	218-192	402	HYDROCUT SAN/COMB MAINLINE	10/9/1998	GRS	MEDIUM	
218-143	218-192	402	HYDROCUT SAN/COMB MAINLINE	10/18/1999	GRS	MEDIUM	
218-143	218-192	402	HYDROCUT SAN/COMB MAINLINE	10/17/2000	GRS	LIGHT	
218-143	218-192	402	HYDROCUT SAN/COMB MAINLINE	10/5/2001	GRS	LIGHT	
218-143	218-192	402	HYDROCUT SAN/COMB MAINLINE	10/14/2002	GRS	LIGHT	
218-143	218-192	402	HYDROCUT SAN/COMB MAINLINE	10/24/2003	GRS	LIGHT	
218-143	218-192	402	HYDROCUT SAN/COMB MAINLINE	8/26/2005	DBR	LGIHT	hydrocut - zero to light debris
218-132	218-133	402	HYDROCUT SAN/COMB MAINLINE	10/15/1997	SLG	MEDIUM	
218-132	218-133	402	HYDROCUT SAN/COMB MAINLINE	5/13/1998	RTS	LIGHT	
218-132	218-133	402	HYDROCUT SAN/COMB MAINLINE	5/14/1999		LIGHT	
218-132	218-133	402	HYDROCUT SAN/COMB MAINLINE	5/25/2001	GRS	LIGHT	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
218-132	218-133	402	HYDROCUT SAN/COMB MAINLINE		5/15/2002 GAR	LIGHT	light grease and roots
218-132	218-133	402	HYDROCUT SAN/COMB MAINLINE - 218-132 218-133		5/8/2007 GRS/DBR	MEDIUM	
218-114	218-113	402	HYDROCUT SAN/COMB MAINLINE		4/29/1998 GRS	MEDIUM	HYDROCUT 3 RUNS; B GREASE; WASHED DOWN 2 M/H DUE TO B/U.
218-109	218-106	402	HYDROCUT SAN/COMB MAINLINE		7/14/2000 MIN	MEDIUM	
218-109	218-106	402	HYDROCUT SAN/COMB MAINLINE		8/4/2004	RES	
218-105	218-104	402	HYDROCUT SAN/COMB MAINLINE		3/11/1999		CALLED OF TO ANOTHER JOB
218-105	218-104	402	HYDROCUT SAN/COMB MAINLINE		3/17/1999 MIN	HEAVY	heavy mineral deposits and light roots
218-105	218-104	402	HYDROCUT SAN/COMB MAINLINE		2/18/2004	LIGHT	
218-097	218-098	402	HYDROCUT SAN/COMB MAINLINE		3/19/1998 RTS	HEAVY	HEAVY ROOTS HAIR AND DEBRIS
218-096	218-097	402	HYDROCUT SAN/COMB MAINLINE		10/17/1997 GRS	MEDIUM	MEDIUM GREASE AND MEDIUM ROOTS
218-096	218-097	402	HYDROCUT SAN/COMB MAINLINE		8/3/2005 RTS	HEAVY	
218-096	218-097	402	HYDROCUT SAN/COMB MAINLINE		8/12/2005 RTS	MEDIUM	REMOVE HEAVY ROOTS□
							□
218-096	218-097	402	HYDROCUT SAN/COMB MAINLINE -- 218-096 218-097		3/17/2007		
218-070	218-096	402	HYDROCUT SAN/COMB MAINLINE - 218-070 218-096		9/26/2006 DEBRIS	LIGHT	
232-001	224-344	401	MANUAL INSPECTION-WASTEWATER		8/28/2003		
231-045	224-311	401	MANUAL INSPECTION-WASTEWATER		10/10/2003		
225-324	225-034	401	MANUAL INSPECTION-WASTEWATER		1/4/2001		
225-307	225-193	401	MANUAL INSPECTION-WASTEWATER		1/31/2001		
225-218	225-217	401	MANUAL INSPECTION-WASTEWATER		1/31/2001		
225-215	225-216	401	MANUAL INSPECTION-WASTEWATER		1/31/2001		
225-213	225-214	401	MANUAL INSPECTION-WASTEWATER		1/31/2001		
225-212	225-211	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		
225-210	225-211	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		
225-208	225-209	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		
225-205	225-206	401	MANUAL INSPECTION-WASTEWATER		1/23/2001		
225-204	225-205	401	MANUAL INSPECTION-WASTEWATER		1/24/2006		
225-201	225-202	401	MANUAL INSPECTION-WASTEWATER		10/16/2001 UNB		
225-201	225-202	401	MANUAL INSPECTION-WASTEWATER		10/18/2001 UNB		
225-199	225-200	401	MANUAL INSPECTION-WASTEWATER		10/16/2001 UNB		
225-199	225-200	401	MANUAL INSPECTION-WASTEWATER		3/31/2005		
225-198	225-199	401	MANUAL INSPECTION-WASTEWATER		9/26/2001 UNB		
225-197	225-204	401	MANUAL INSPECTION-WASTEWATER		1/4/2001		
225-197	225-204	401	MANUAL INSPECTION-WASTEWATER		5/17/2005		
225-196	225-197	401	MANUAL INSPECTION-WASTEWATER		1/4/2001		
225-196	225-197	401	MANUAL INSPECTION-WASTEWATER		7/25/2002 CLEAR	NF	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM			COMMENTS
				COMPDTM	FOUND	SEVERITY	
225-195	225-194	401	MANUAL INSPECTION-WASTEWATER	7/25/2002	CLEAR	NF	manual inspections - run on 112th all the way to n 125th needs jet cleaning.
225-192	225-307	401	MANUAL INSPECTION-WASTEWATER	2/26/2001			remove riser ring from m/h 225-192 in parkway. riser ring loose.
225-190	225-192	401	MANUAL INSPECTION-WASTEWATER	1/31/2001			need to locate & expose m/h's
225-189	225-191	401	MANUAL INSPECTION-WASTEWATER	1/31/2001			m/h's ok
225-186	225-188	401	MANUAL INSPECTION-WASTEWATER	1/31/2001			m/h 225-186 lamphole; m/h 188 ok
225-185	225-187	401	MANUAL INSPECTION-WASTEWATER	1/31/2001			m/h 225-185 ok, m/h 225-187 need to locate & expose
225-180	225-183	401	MANUAL INSPECTION-WASTEWATER	9/19/2000			N 112TH & EVANSTON AVE N: LOCATE M/H
225-180	225-183	401	MANUAL INSPECTION-WASTEWATER	9/20/2000			N. 112TH & EVANSTON AVE N: LOCATE M/H
225-175	225-177	401	MANUAL INSPECTION-WASTEWATER	2/12/2003			try to locate u/s & d/s m/h's - need them exposed.
225-171	225-173	401	MANUAL INSPECTION-WASTEWATER	1/24/2001			m/h 171 need to locate in traffic circle - buried, m/h 173 all ok
225-169	225-171	401	MANUAL INSPECTION-WASTEWATER	1/24/2001			m/h 169 ok, m/h 171 need to locate in traffic circle - buried
225-167	225-164	401	MANUAL INSPECTION-WASTEWATER	1/31/2001			m/h 225-167 ok
225-165	225-164	401	MANUAL INSPECTION-WASTEWATER	1/31/2001			m/h 225-165 need to locate and expose
225-164	225-166	401	MANUAL INSPECTION-WASTEWATER	7/25/2002	CLEAR	NF	manual inspections
225-163	225-164	401	MANUAL INSPECTION-WASTEWATER	1/24/2001			m/h all ok
225-161	225-163	401	MANUAL INSPECTION-WASTEWATER	7/25/2002	CLEAR	NF	manual inspections
225-160	225-161	401	MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main; m/h 225-160
225-159	225-160	401	MANUAL INSPECTION-WASTEWATER	9/19/2000		NF	PLACED NO PARKS
225-159	225-160	401	MANUAL INSPECTION-WASTEWATER	7/25/2002	CLEAR	NF	manual inspections
225-157	225-158	401	MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main; m/h 225-157
225-156	225-168	401	MANUAL INSPECTION-WASTEWATER	6/13/2000			check set up, need cars moved, will check next couple days, if no change, no park
225-156	225-168	401	MANUAL INSPECTION-WASTEWATER	6/28/2001			was going to rod but t.v. insp. says hydrocut for grease.
225-155	225-169	401	MANUAL INSPECTION-WASTEWATER	2/21/2001			check m/h 225-155 & main line
225-154	225-155	401	MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main
225-152	225-153	401	MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main
225-151	225-152	401	MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main
225-151	225-152	401	MANUAL INSPECTION-WASTEWATER	2/21/2001			check m/h & main line
225-076	225-077	401	MANUAL INSPECTION-WASTEWATER	1/30/2001			m/h 076 - lt debris, needs jet cleaned, m/h 077 - medium debris, needs jet cleaned
225-076	225-077	401	MANUAL INSPECTION-WASTEWATER	5/22/2003			055,058 defect to c-10 debris in line 058,059,062,061,074,083,082,081,080, □ 079,231,212,203,214,201,202,356
225-074	225-075	401	MANUAL INSPECTION-WASTEWATER	7/25/2002	CLEAR	NF	manual inspections - run on 112th all the way to n 125th needs jet cleaning.
225-072	225-071	401	MANUAL INSPECTION-WASTEWATER	6/24/1997			PULL LINE FOR TV TOMORROW.
225-072	225-071	401	MANUAL INSPECTION-WASTEWATER	1/28/1999			INCL 405; JET VAC 8" LINE, TOO MUCH FLOW TO VAC WITH ????
225-072	225-071	401	MANUAL INSPECTION-WASTEWATER	1/29/1999			INCL 405; STILL TO MUCH WATER TO JET.
225-071	225-151	401	MANUAL INSPECTION-WASTEWATER	2/21/2001			check m/h & main line
225-069	225-198	401	MANUAL INSPECTION-WASTEWATER	9/30/1998			LOCATE & CHECK ACCESS FOR JET-VAC
225-066	225-309	401	MANUAL INSPECTION-WASTEWATER	2/2/2001			m/h 225-066 - ok
225-064	225-072	401	MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main; m/h 225-064
225-063	225-071	401	MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main
225-061	225-069	401	MANUAL INSPECTION-WASTEWATER	9/30/1998			LOCATE & CHECK ACCESS FOR JET-VAC.
225-060	225-068	401	MANUAL INSPECTION-WASTEWATER	1/30/2001			m/h 060 - lt debris, needs jet cleaned, m/h 068 - expose
225-058	225-067	401	MANUAL INSPECTION-WASTEWATER	7/25/2002	CLEAR	NF	manual inspections - run on 112th all the way to n 125th needs jet cleaning.

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTM	PROBLEM FOUND	SEVERITY	COMMENTS
225-055	225-054		401 MANUAL INSPECTION-WASTEWATER	10/23/2002	MISC		TV crew reports they needed flaggers at D/S m/h. D/E m/h is buried
225-055	225-054		401 MANUAL INSPECTION-WASTEWATER	2/24/2004	MISC		Check old tank behind house old sept. tank not ours
225-054	225-064		401 MANUAL INSPECTION-WASTEWATER - 225-054 225-064	2/5/2008	NOPROB		
225-053	225-063		401 MANUAL INSPECTION-WASTEWATER	2/21/2001			check m/h & main line
225-052	225-053		401 MANUAL INSPECTION-WASTEWATER	7/14/2000	LOC		
225-052	225-053		401 MANUAL INSPECTION-WASTEWATER	7/20/2000	LOC		
225-052	225-053		401 MANUAL INSPECTION-WASTEWATER	10/23/2002	MISC		
225-045	225-054		401 MANUAL INSPECTION-WASTEWATER	1/4/2001			locate m/h, this is a l/h
225-045	225-054		401 MANUAL INSPECTION-WASTEWATER - 225-045 225-054	2/5/2008	NOPROB		TV crew reports they need flaggers at D/S M/H
225-044	225-053		401 MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main; m/h 225-045
225-043	225-051		401 OTHER - 11726 GREENWOOD AV N	4/6/2006			
225-041	225-049		401 MANUAL INSPECTION-WASTEWATER	1/30/2001			m/h's ok
225-040	225-048		401 MANUAL INSPECTION-WASTEWATER	7/25/2002	CLEAR	NF	manual inspections - run on 112th all the way to n 125th needs jet cleaning.
225-037	225-036		401 MANUAL INSPECTION-WASTEWATER	7/20/2000	LOC		locating l/h, too deep to dig out without raising; m/h 225-037
225-036	225-045		401 MANUAL INSPECTION-WASTEWATER	2/24/1998	CVO		
225-036	225-045		401 MANUAL INSPECTION-WASTEWATER	7/14/2000	LOC		void over conc. drainline, formerly A DITCH. DRAINAGE NEEDS TO LOOK AT THIS.
225-036	225-045		401 MANUAL INSPECTION-WASTEWATER	11/20/2001			
225-035	225-036		401 MANUAL INSPECTION-WASTEWATER	7/20/2000	LOC		12016 dayton ave n; possible oil leak near s/s (storage tank for home oil)
225-035	225-036		401 MANUAL INSPECTION-WASTEWATER	10/23/2002	MISC		locating l/h, too deep to dig out without raising; m/h 225-035
225-034	225-044		401 MANUAL INSPECTION-WASTEWATER	2/8/1999	MISC		TV crew reports they needed Flaggers at d/s m/h. Upstream m/h is buried
225-032	225-042		401 MANUAL INSPECTION-WASTEWATER	12/18/2003	UNB		CHECK FOR LOOSE LID ALL OK I.D.#1914
225-031	225-022		401 MANUAL INSPECTION-WASTEWATER	1/30/2001			located mh need key for access
225-031	225-022		401 MANUAL INSPECTION-WASTEWATER	1/31/2001			m/h 022 and 031 - heavy debris - needs jet cleaned & vac
225-026	225-038		401 MANUAL INSPECTION-WASTEWATER	1/4/2001			incl 405; line has too much debris, need to come back and finish
225-023	225-024		401 MANUAL INSPECTION-WASTEWATER	12/10/2001	UNB		
225-023	225-024		401 MANUAL INSPECTION-WASTEWATER	5/1/2002	UNB		check m/h & main; m/h 225-026
225-023	225-024		401 MANUAL INSPECTION-WASTEWATER	5/12/2003			incl 405; m/h 225-024 is covered in blackberry bushes - needs to be located & exposed, access off N 117th st & #23 key for esmt.
225-023	225-024		401 MANUAL INSPECTION-WASTEWATER	12/18/2003	UNB		incl 405; need two radios for overland. a key to enter esmt on city light.
225-023	225-024		401 MANUAL INSPECTION-WASTEWATER	4/5/2005			LOCATED M/H'S IN BLACKBERRY BUSHES AND EXPOSED FOR TV INSP
225-023	225-024		401 MANUAL INSPECTION-WASTEWATER	6/9/2005			located mh - need keys for access
225-023	225-024		401 MANUAL INSPECTION-WASTEWATER	6/15/2005	LOC		NEED A KEY (#23) TO OPEN GATE AND JET CLEAN, TO BE ABLE TO COMPLETE W/O# 396741
225-023	225-024		401 MANUAL INSPECTION-WASTEWATER	1/30/2001			NEED KEY # 23 TO OPEN GATE TO COMPLETE W/O# 396741
225-021	225-022		401 MANUAL INSPECTION-WASTEWATER	7/25/2002	CLEAR	NF	COULD NOT COMPLETE W/O# 396741 - U/S M/H NEEDS TO BE LOCATED
225-020	225-030		401 MANUAL INSPECTION-WASTEWATER	4/8/2005	UNB		m/h 022 - heavy debris - needs jet cleaned & vac
225-014	225-027		401 MANUAL INSPECTION-WASTEWATER				manual inspections - run on 112th all the way to n 125th needs jet cleaning.
225-006	225-023		401 MANUAL INSPECTION-WASTEWATER	1/4/2001			check m/h & main
							incl 403; need city light key and s/s card - behind cemetary.

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM			COMMENTS
				COMPDTM	FOUND	SEVERITY	
225-004	225-019		401 MANUAL INSPECTION-WASTEWATER		7/25/2002 CLEAR	NF	manual inspections - run on 112th all the way to n 125th needs jet cleaning.
224-417	224-416		401 MANUAL INSPECTION-WASTEWATER		7/1/2005		NW 120TH ST/7TH AV NW: SEARCH FOR HARD HAT THAT FELL INTO SEWER M/L □ OTHER RELATED W/O#S LOOKING FOR HARD HAT ARE: □ 426607, 426608, 426609, 426639, 426640 & 426642 □ SEE W/O# 426648 FOR HARD HAT RETRIEVAL NW 120TH ST/8TH AV NW: SEARCH FOR HARD HAT THAT FELL INTO SEWER M/L □ OTHER RELATED W/O#S LOOKING FOR HARD HAT ARE: □ 426606, 426607, 426608, 426609, 426640 & 426642 □ SEE W/O# 426948 FOR HARD HAT RETRIEVAL □
224-416	224-415		401 MANUAL INSPECTION-WASTEWATER		7/1/2005		SEE W/O# 426648 FOR HARD HAT RETRIEVAL NW 120TH ST/8TH AV NW: SEARCH FOR HARD HAT THAT FELL INTO SEWER M/L □ OTHER RELATED W/O#S LOOKING FOR HARD HAT ARE: □ 426606, 426607, 426608, 426609, 426639 & 426642 □ SEE W/O# 426948 FOR HARD HAT RETRIEVAL □
224-415	224-407		401 MANUAL INSPECTION-WASTEWATER		7/1/2005		8TH AV NW/NW 118TH ST: SEARCH FOR HARD HAT THAT FELL INTO SEWER M/L □ OTHER RELATED W/O#S LOOKING FOR HARD HAT ARE: □ 426606, 426607, 426608, 426609, 426639 & 426642 □ SEE W/O# 426948 FOR HARD HAT RETRIEVAL □
224-413	224-093		401 MANUAL INSPECTION-WASTEWATER		1/24/2003 UNB		SEE W/O# 426948 FOR HARD HAT RETRIEVAL incl 403; need to check building plans - m/l has been changed.
224-411	224-412		401 OTHR - 11711 9TH AVE NW		12/24/2007		11718 9TH AV NW: SEARCH FOR HARD HAT THAT FELL INTO SEWER M/L - LINE MAKES A 90 DEGREE BEND □ OTHER RELATED W/O#S LOOKING FOR HARD HAT ARE: □ 426606, 426607, 426608, 426609, 426639 & 426642 □ SEE W/O# 426948 FOR HARD HAT RETRIEVAL
224-410	224-411		401 MANUAL INSPECTION-WASTEWATER		7/1/2005		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-409	224-410		401 MANUAL INSPECTION-WASTEWATER	7/1/2005			1118 9TH AV NW: SEARCH FOR HARD HAT THAT FELL INTO SEWER M/L <input type="checkbox"/> OTHER RELATED W/O#S LOOKING FOR HARD HAT ARE: <input type="checkbox"/> 426606, 426607, 426608, 426639, 426640 & 426642 <input type="checkbox"/> SEE W/O# 426948 FOR HARD HAT RETRIEVAL NW 118TH ST/ 8TH AV NW: SEARCH FOR HARD HAT THAT FELL INTO SEWER M/L <input type="checkbox"/> OTHER RELATED W/O#S LOOKING FOR HARD HAT ARE: <input type="checkbox"/> 426606, 426607, 426609, 426639, 426640 & 426642 <input type="checkbox"/> SEE W/O# 426948 FOR HARD HAT RETRIEVAL NW 118TH ST/8TH AV NW: SEARCH FOR HARD HAT THAT FELL INTO SEWER M/L <input type="checkbox"/> OTHER RELATED W/O#S LOOKING FOR HARD HAT ARE: <input type="checkbox"/> 426606, 426608, 426609, 426639, 426640 & 426642 <input type="checkbox"/> SEE W/O# 426948 FOR HARD HAT RETRIEVAL NEEDS NO PARKS CARS PARKED ON M/H UNABLE TO LOCATE M/H 224-S01 TO DO TV INSP manual insp. m/h 224-369 manual inspections - m/h 224-369 ok LOCATED, EXPOSED AND PAINTED M/H FOR TV INSPECTION - READY TO TV manual inspections - m/h 224-364 - ok CHECK REPORT OF WATER LEAKING THROUGH ROCKERY - HOMEOWNER IS CURRENTLY FOLLOWING KEITH CROSS' ADVICE ON REMEDY manual inspections - all ok manual inspections - all ok manual insp. m/h 224-360 manual inspections - all ok need to locate m/h's m/h 334 needs survey crew to locate, unable to pick up signal on detector; m/h 355 u/s, marked off with green paint LOCATE M/H'S FOR TV - LOCATED 224-351 - NEED LOCATER, TIME AND DRY WEATHER OTHER M/HS ARE IN GULLY - BURIED
224-408	224-409		401 MANUAL INSPECTION-WASTEWATER	7/1/2005			
224-407	224-408		401 MANUAL INSPECTION-WASTEWATER	7/1/2005			
224-381	224-315		401 MANUAL INSPECTION-WASTEWATER	1/18/2002			
224-381	224-315		401 MANUAL INSPECTION-WASTEWATER	1/29/2002			
224-369	224-186		401 MANUAL INSPECTION-WASTEWATER	7/2/2001			
224-369	224-186		401 MANUAL INSPECTION-WASTEWATER	3/21/2002 CLEAR	NF		
224-366	224-191		401 MANUAL INSPECTION-WASTEWATER	5/29/1997 LOC			
224-364	224-350		401 MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		
224-363	224-362		401 MANUAL INSPECTION-WASTEWATER	5/23/1997 MISC			
224-362	224-361		401 MANUAL INSPECTION-WASTEWATER	3/21/2002 CLEAR	NF		
224-361	224-360		401 MANUAL INSPECTION-WASTEWATER	3/21/2002 CLEAR	NF		
224-360	224-190		401 MANUAL INSPECTION-WASTEWATER	7/2/2001			
224-357	224-358		401 MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		
224-355	224-334		401 MANUAL INSPECTION-WASTEWATER	3/2/2001			
224-355	224-334		401 MANUAL INSPECTION-WASTEWATER	3/22/2001			
224-351	224-192		401 MANUAL INSPECTION-WASTEWATER	5/27/1997 LOC			

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-348	224-347		401 MANUAL INSPECTION-WASTEWATER	5/15/1997			NW 114TH ST FROM 4TH M/H W/O 3RD AVE NW TO 3RD M/H W/O 3RD AVE NW.(CHECKING FOR TV INSP FOR HERB ALWINE (ST.MTNCE) BECAUSE OF WATER SEEPAGE THRU ROCKERY BY DRIVEWAY OF 350 NW 113TH PL.(D/S M/H
224-348	224-347		401 NEW SERVICE CONNECTION 224-348 224-347	8/3/2007			
224-347	224-351		401 MANUAL INSPECTION-WASTEWATER	5/28/1997 LOC			
224-343	224-345		401 MANUAL INSPECTION-WASTEWATER	7/20/2004			10700 PALATINE AV N: REPAIR JOB IS ALL DONE
224-342	224-343		401 MANUAL INSPECTION-WASTEWATER	7/12/2002 UNB			incl 403; need m/h 224-342 loc in alley w/o greenwood ave n; look on defect slip.
224-341	224-337		401 MANUAL INSPECTION-WASTEWATER	3/14/2000			checked for jet vac set up
224-341	224-337		401 MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-340	224-341		401 MANUAL INSPECTION-WASTEWATER	11/27/2001 CLEAR	NF		manual inspections - all ok
224-339	224-340		401 MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-337	224-331		401 MANUAL INSPECTION-WASTEWATER	3/2/2001	NF		all ok
224-336	224-337		401 MANUAL INSPECTION-WASTEWATER	11/16/2001 CLEAR	NF		manual inspections - all ok
224-333	224-336		401 MANUAL INSPECTION-WASTEWATER	3/2/2001	NF		all okNF
224-333	224-336		401 MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-332	224-333		401 MANUAL INSPECTION-WASTEWATER	11/16/2001 CLEAR	NF		manual inspections - all ok
224-331	224-330		401 MANUAL INSPECTION-WASTEWATER	3/19/1997 MISC			REPORTED B/U, CRUSHED DRAIN, SECOND LINE HAS B/U
224-329	224-331		401 MANUAL INSPECTION-WASTEWATER	11/21/2001 CLEAR	NF		manual inspection - all ok
224-329	224-331		401 MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-328	224-329		401 MANUAL INSPECTION-WASTEWATER	3/2/2001			all ok
224-327	224-328		401 MANUAL INSPECTION-WASTEWATER	11/21/2001 CLEAR	NF		manual inspection - all ok
224-327	224-328		401 MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-325	224-326		401 MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		manual inspections - all ok
224-325	224-326		401 MANUAL INSPECTION-WASTEWATER	3/14/2002 CLEAR	NF		m/h insp. for debris, roots, grease - ok
224-324	224-323		401 MANUAL INSPECTION-WASTEWATER	3/22/2001			m/h 324 marked & located. needs to be exposed.
224-324	224-323		401 MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		manual inspections - all ok
224-324	224-323		401 MANUAL INSPECTION-WASTEWATER	3/14/2002 CLEAR	NF		m/h insp. for debris, roots, grease - ok
224-322	224-323		401 MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		manual inspections - all ok
224-321	224-320		401 MANUAL INSPECTION-WASTEWATER	4/20/2001			m/h ok
224-320	224-319		401 MANUAL INSPECTION-WASTEWATER	3/21/2002 CLEAR	NF		manual inspections - all ok
224-319	224-225		401 MANUAL INSPECTION-WASTEWATER	4/20/2001			m/h ok
224-319	224-225		401 MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		manual inspections - all ok
224-313	224-381		401 MANUAL INSPECTION-WASTEWATER	10/16/2001			LOCATED U/S & D/S M/H
224-313	224-381		401 MANUAL INSPECTION-WASTEWATER	12/20/2001 CLEAR	NF		manual inspection m/h 224-313
224-312	224-313		401 MANUAL INSPECTION-WASTEWATER	12/28/2000			EVERYTHING CLEAN; FIXED THE LOCK LID ON M/H 224-313
224-312	224-313		401 MANUAL INSPECTION-WASTEWATER	1/16/2002			check accesibility for jet vac
224-310	224-311		401 MANUAL INSPECTION-WASTEWATER	12/28/2000			EVERYTHING CLEAN
224-309	224-310		401 MANUAL INSPECTION-WASTEWATER	12/20/2001 CLEAR	NF		manual inspections - ok
224-309	224-310		401 MANUAL INSPECTION-WASTEWATER	3/22/2002 CLEAR	NF		manual inspections
224-308	224-311		401 MANUAL INSPECTION-WASTEWATER	12/28/2000			EVERYTHING CLEAN
224-308	224-311		401 MANUAL INSPECTION-WASTEWATER	12/20/2001 CLEAR	NF		manual inspections - ok
224-308	224-311		401 MANUAL INSPECTION-WASTEWATER	3/22/2002 CLEAR	NF		manual inspections
224-308	224-311		401 MANUAL INSPECTION-WASTEWATER	6/6/2002 CLEAR	NF		manual inspections - m/h 224-308 - all ok
224-306	224-305		401 MANUAL INSPECTION-WASTEWATER	12/28/2000			EVERYTHING CLEAN
224-306	224-305		401 MANUAL INSPECTION-WASTEWATER	12/20/2001 CLEAR	NF		manual inspections - ok
224-306	224-305		401 MANUAL INSPECTION-WASTEWATER	3/22/2002 CLEAR	NF		manual inspections

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-306	224-305	401	MANUAL INSPECTION-WASTEWATER		6/6/2002 CLEAR	NF	manual inspections - all ok
224-304	224-378	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		EVERYTHING CLEAN
224-304	224-378	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-304	224-378	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-304	224-378	401	MANUAL INSPECTION-WASTEWATER		6/6/2002 CLEAR	NF	manual inspections - all ok
224-303	224-302	401	MANUAL INSPECTION-WASTEWATER		3/6/1998 BAC		@ 10710 8th ave ne, ck sewage coming out of hillside. dye showed within two minutes. need to tv
224-303	224-302	401	MANUAL INSPECTION-WASTEWATER		2/18/1999		WE FOUND 6" AWAY FROM ROM X COLLARS, APP 1" SEWAGE INTO CREEK ABOUT 100 GALS EVERY 30 MIN, TALK TO CH-11? GROUND MOVE, WE TALK TO C-11 FOR MATERIAL & EQUIP
224-303	224-302	401	MANUAL INSPECTION-WASTEWATER		2/19/1999		ASSIST ENG. FOR TESTING SOIL, CH-15 ON SITE
224-303	224-302	401	MANUAL INSPECTION-WASTEWATER		4/9/2003 MISC		esmt n.w. 108th st & 8th nw; dye m/l due to seepage on hillside, re-check to see if dye show
224-299	224-310	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-299	224-310	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-298	224-299	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-297	224-298	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-297	224-298	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-297	224-298	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-296	224-295	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-296	224-295	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-295	224-293	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-295	224-293	401	MANUAL INSPECTION-WASTEWATER		1/8/2002 DBR		EXTRACTED STICK FROM MH CHANNEL
224-294	224-293	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-294	224-293	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-294	224-293	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-294	224-293	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-293	224-286	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-292	224-291	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-292	224-291	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-292	224-291	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-290	224-289	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-290	224-289	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-290	224-289	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-288	224-287	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-288	224-287	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-288	224-287	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-287	224-286	401	MANUAL INSPECTION-WASTEWATER		12/28/2000		CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-287	224-286	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-286	224-285	401	MANUAL INSPECTION-WASTEWATER		3/22/2002 CLEAR	NF	manual inspections
224-286	224-285	401	MANUAL INSPECTION-WASTEWATER		5/1/2003 CLEAR	NF	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-285	224-172	401	MANUAL INSPECTION-WASTEWATER	3/24/1998			look for access point to tv
224-284	224-297	401	MANUAL INSPECTION-WASTEWATER	12/28/2000			CHECK CHANNEL ALL M/H AND CLEAN TOP LID, EVERYTHING CLEAN
224-283	224-284	401	MANUAL INSPECTION-WASTEWATER	12/28/2000			CLEAN TOP LID OF ALL M/H, EVERYTHING CLEAN; M/H 224-283
224-283	224-284	401	MANUAL INSPECTION-WASTEWATER	12/5/2001 DBR	LIGHT		manual inspection m/h 224-283 light debris, good flow
224-282	224-281	401	MANUAL INSPECTION-WASTEWATER	12/28/2000			CLEAN TOP LID OF ALL M/H, EVERYTHING CLEAN
224-282	224-281	401	MANUAL INSPECTION-WASTEWATER	12/5/2001 DBR	LIGHT		manual inspections, light debris, good flow
224-282	224-281	401	MANUAL INSPECTION-WASTEWATER	3/20/2002 CLEAR	NF		manual inspections - all m/h ok
224-281	224-280	401	MANUAL INSPECTION-WASTEWATER	3/20/2002 CLEAR	NF		manual inspections - all m/h ok
224-279	224-278	401	MANUAL INSPECTION-WASTEWATER	12/28/2000			CLEAN TOP LID OF ALL M/H, EVERYTHING CLEAN
224-279	224-278	401	MANUAL INSPECTION-WASTEWATER	3/20/2002 CLEAR	NF		manual inspections - all m/h ok
224-278	224-277	401	MANUAL INSPECTION-WASTEWATER	12/5/2001 DBR	LIGHT		manual inspections, light debris, good flow
224-277	224-276	401	MANUAL INSPECTION-WASTEWATER	12/28/2000			CLEAN TOP LID OF ALL M/H, EVERYTHING CLEAN
224-277	224-276	401	MANUAL INSPECTION-WASTEWATER	3/20/2002 CLEAR	NF		manual inspections - all m/h ok
224-275	224-273	401	MANUAL INSPECTION-WASTEWATER	3/2/2001			all ok
224-275	224-273	401	MANUAL INSPECTION-WASTEWATER	12/5/2001 DBR	LIGHT		manual inspections, light debris, good flow
224-275	224-273	401	MANUAL INSPECTION-WASTEWATER	3/20/2002 CLEAR	NF		manual inspections - all m/h ok
224-275	224-273	401	OTHR - 10523 14TH AVE NW	2/26/2008 NOPROB			m/h 224-274 ok
224-274	224-279	401	MANUAL INSPECTION-WASTEWATER	3/2/2001			manual inspections, light debris, good flow
224-274	224-279	401	MANUAL INSPECTION-WASTEWATER	12/5/2001 DBR	LIGHT		manual inspections - all m/h ok
224-274	224-279	401	MANUAL INSPECTION-WASTEWATER	3/20/2002 CLEAR	NF		all ok
224-273	224-272	401	MANUAL INSPECTION-WASTEWATER	3/2/2001			manual inspections, light debris, good flow
224-273	224-272	401	MANUAL INSPECTION-WASTEWATER	12/5/2001 DBR	LIGHT		all ok
224-272	224-271	401	MANUAL INSPECTION-WASTEWATER	3/2/2001			manual inspections - all m/h ok
224-272	224-271	401	MANUAL INSPECTION-WASTEWATER	3/20/2002 CLEAR	NF		CLEAN TOP LID OF ALL M/H, EVERYTHING CLEAN
224-270	224-268	401	MANUAL INSPECTION-WASTEWATER	12/28/2000			manual inspections, light debris, good flow
224-270	224-268	401	MANUAL INSPECTION-WASTEWATER	12/5/2001 DBR	LIGHT		manual inspections
224-270	224-268	401	MANUAL INSPECTION-WASTEWATER	3/22/2002 CLEAR	NF		CLEAN TOP LID OF ALL M/H, EVERYTHING CLEAN
224-267	224-265	401	MANUAL INSPECTION-WASTEWATER	12/28/2000			manual inspections
224-267	224-265	401	MANUAL INSPECTION-WASTEWATER	3/22/2002 CLEAR	NF		CLEAN TOP LID OF ALL M/H, EVERYTHING CLEAN
224-254	224-253	401	MANUAL INSPECTION-WASTEWATER	3/27/2002 CLEAR	NF		manual inspections
224-251	224-250	401	MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		manual inspections; all ok
224-251	224-250	401	MANUAL INSPECTION-WASTEWATER	3/27/2002 CLEAR	NF		manual inspections - m/h 224-251 - ok
224-251	224-250	401	MANUAL INSPECTION-WASTEWATER	5/19/2003 CVO			manual inspections; all ok
224-247	224-342	401	MANUAL INSPECTION-WASTEWATER	7/28/2000 LOC			dye test void (no findings written on paperwork)
224-247	224-342	401	MANUAL INSPECTION-WASTEWATER	8/15/2000			
224-246	224-247	401	MANUAL INSPECTION-WASTEWATER	3/14/2000			EXPOSE & LOCATE M/H
224-246	224-247	401	MANUAL INSPECTION-WASTEWATER	12/20/2001 CLEAR	NF		checked for jet vac set up
224-245	224-338	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 DBR	LIGHT		manual inspections - ok
224-244	224-245	401	MANUAL INSPECTION-WASTEWATER	11/16/2001 CLEAR	NF		manual inspections - m/h 245 ok, m/h 338 light debris
224-243	224-244	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all ok
224-242	224-332	401	MANUAL INSPECTION-WASTEWATER	3/2/2001			manual inspections - all channels ok
224-242	224-332	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		all ok
224-241	224-242	401	MANUAL INSPECTION-WASTEWATER	12/20/1999			manual inspections - all channels ok
224-241	224-242	401	MANUAL INSPECTION-WASTEWATER	11/16/2001 CLEAR	NF		manual inspections - all ok
224-240	224-241	401	MANUAL INSPECTION-WASTEWATER	3/2/2001			all ok
224-240	224-241	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-239	224-238	401	MANUAL INSPECTION-WASTEWATER	3/22/2001			m/h 239 lamphole exposed.
224-239	224-238	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-238	224-238	401	MANUAL INSPECTION-WASTEWATER	11/21/2001 CLEAR	NF		manual inspection - all ok

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
224-237	224-236	401	MANUAL INSPECTION-WASTEWATER		3/6/2002 MISC		manual inspections - m/h 237 needs to be located, m/h 236 ok
224-236	224-327	401	MANUAL INSPECTION-WASTEWATER		3/2/2001		all ok
224-235	224-229	401	MANUAL INSPECTION-WASTEWATER		3/22/2001		m/h 235 marked & located. needs to be exposed.
224-235	224-229	401	MANUAL INSPECTION-WASTEWATER		11/30/2001 CLEAR	NF	manual inspections - all ok
224-235	224-229	401	MANUAL INSPECTION-WASTEWATER		3/14/2002 CLEAR	NF	m/h insp. for debris, roots, grease - ok
224-234	224-236	401	MANUAL INSPECTION-WASTEWATER		11/21/2001 CLEAR	NF	manual inspection - all ok
224-233	224-234	401	MANUAL INSPECTION-WASTEWATER		3/2/2001		all ok
224-233	224-234	401	MANUAL INSPECTION-WASTEWATER		3/6/2002 CLEAR	NF	manual inspections - all channels ok
224-232	224-231	401	MANUAL INSPECTION-WASTEWATER		3/14/2002 CLEAR	NF	m/h insp. for debris, roots, grease - ok
224-231	224-230	401	MANUAL INSPECTION-WASTEWATER		3/14/2002 CLEAR	NF	m/h insp. for debris, roots, grease - ok
224-230	224-229	401	MANUAL INSPECTION-WASTEWATER		11/30/2001 CLEAR	NF	manual inspections - all ok
224-229	224-322	401	MANUAL INSPECTION-WASTEWATER		4/20/2001		m/h 229 ok
224-229	224-322	401	MANUAL INSPECTION-WASTEWATER		3/14/2002 CLEAR	NF	m/h insp. for debris, roots, grease - ok
224-228	224-226	401	MANUAL INSPECTION-WASTEWATER		11/21/2001 CLEAR	NF	manual inspection - all ok
224-228	224-226	401	MANUAL INSPECTION-WASTEWATER		3/21/2002 CLEAR	NF	manual inspections - all ok
224-227	224-320	401	MANUAL INSPECTION-WASTEWATER		4/20/2001		m/h ok; m/h 227 need to be located & exposed
224-227	224-320	401	MANUAL INSPECTION-WASTEWATER		11/21/2001 CLEAR	NF	manual inspection - all ok
224-226	224-222	401	MANUAL INSPECTION-WASTEWATER		4/20/2001		m/h ok; m/h 226 need to be exposed - covered w/ asphalt
224-225	224-222	401	MANUAL INSPECTION-WASTEWATER		3/21/2002 CLEAR	NF	manual inspections - m/h 224-225 ok
224-222	224-221	401	MANUAL INSPECTION-WASTEWATER		11/30/2001 CLEAR	NF	manual inspections - all ok
224-216	224-215	401	MANUAL INSPECTION-WASTEWATER		7/14/2000 LOC		
224-216	224-215	401	MANUAL INSPECTION-WASTEWATER		3/21/2002 CLEAR	NF	manual inspections - all ok
224-215	224-214	401	MANUAL INSPECTION-WASTEWATER		1/22/1998 MISC		NO ONE HOME TO SHOW US PROBLEM
224-215	224-214	401	MANUAL INSPECTION-WASTEWATER		3/14/2000		checked for jet vac set up
224-215	224-214	401	MANUAL INSPECTION-WASTEWATER		3/16/2000		check jet vac set up - see w/o, m/h's asphalted over
224-215	224-214	401	MANUAL INSPECTION-WASTEWATER		3/29/2000		need to locate u/s d/e m/h - 224, 215 expose and street level - incomplete
224-215	224-214	401	MANUAL INSPECTION-WASTEWATER		3/19/2002 UNB		337 nw 112th st; incomplete - m/h buried see w/o
224-215	224-214	401	MANUAL INSPECTION-WASTEWATER		3/20/2002 UNB		incl 405; m/h's have been paved over.
224-215	224-214	401	MANUAL INSPECTION-WASTEWATER		4/24/2002 RC		need to replace the whole casting m/h 224-215
224-214	224-213	401	MANUAL INSPECTION-WASTEWATER		3/21/2002 CLEAR	NF	manual inspections - all ok
224-214	224-213	401	MANUAL INSPECTION-WASTEWATER		9/23/2005 UNB		incl 405; "the way I read the jet card we are to reverse jet but card does not say so no other access to this line".
224-209	224-246	401	MANUAL INSPECTION-WASTEWATER		3/9/2000		incl 403; m/h's buried in alley
224-209	224-246	401	MANUAL INSPECTION-WASTEWATER		12/20/2001 CLEAR	NF	manual inspections - ok
224-207	224-243	401	MANUAL INSPECTION-WASTEWATER		11/21/2000		224-243 had chip seal on lid - ok.
224-207	224-243	401	MANUAL INSPECTION-WASTEWATER		11/16/2001 CLEAR	NF	manual inspections - all ok
224-206	224-207	401	MANUAL INSPECTION-WASTEWATER		11/16/2001		manual inspections - m/h 206 defect to c-11
224-206	224-207	401	MANUAL INSPECTION-WASTEWATER		3/6/2002 CLEAR	NF	manual inspections - all channels ok
224-206	224-207	401	MANUAL INSPECTION-WASTEWATER		4/30/2002		224-206 - no comments written on paper as to what was done here.
224-205	224-204	401	MANUAL INSPECTION-WASTEWATER		2/28/2001		m/h's all ok
224-204	224-201	401	MANUAL INSPECTION-WASTEWATER		3/6/2002 CLEAR	NF	manual inspections - all channels ok
224-203	224-240	401	MANUAL INSPECTION-WASTEWATER		11/16/2001 CLEAR	NF	manual inspections - all ok
224-203	224-240	401	MANUAL INSPECTION-WASTEWATER		11/16/2001		defect given to drainage - culvert at n/e/c full of leaves.
224-202	224-203	401	MANUAL INSPECTION-WASTEWATER		3/2/2001	NF	all ok
224-202	224-203	401	MANUAL INSPECTION-WASTEWATER		3/6/2002 CLEAR	NF	manual inspections - all channels ok
224-201	224-202	401	MANUAL INSPECTION-WASTEWATER		11/16/2001 CLEAR	NF	manual inspections - all ok
224-200	224-238	401	MANUAL INSPECTION-WASTEWATER		3/2/2001		all ok
224-200	224-238	401	MANUAL INSPECTION-WASTEWATER		11/20/2002 UNB		incl 403; (no reason stated)

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM			COMMENTS
				COMPDTM	FOUND	SEVERITY	
224-199	224-200	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	CLEAR	NF	manual inspections - m/h 199 needs to be located; m/h 200 ok
224-198	224-199	401	MANUAL INSPECTION-WASTEWATER	3/2/2001			all ok
224-198	224-199	401	MANUAL INSPECTION-WASTEWATER	11/21/2001	CLEAR	NF	manual inspection - all ok
224-198	224-199	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	MISC		manual inspections - m/h's 198 and 199 need to be located.
224-197	224-356	401	MANUAL INSPECTION-WASTEWATER	10/30/1998	LOC		NEED TO LOCATE M/H 356 UNDER SEAL COAT.
224-197	224-356	401	MANUAL INSPECTION-WASTEWATER	1/26/1999	LOC		2ND AVE NW & NW 115TH & 3RD NW; ACCORDING TO MAP, M/H TO BE LOCATED & EXPOSED IS WRITTEN UP FOR A M/H ON 3RD AVE NW & NW 115TH. I LOCATED, PAINTED & EXPOSED 224-356 ALSO ON 2ND AVE NW & NW 115TH U/S FROM 224-356 ON NW 115TH, M/H 224-197.
224-196	224-195	401	MANUAL INSPECTION-WASTEWATER	9/1/1999			
224-196	224-195	401	MANUAL INSPECTION-WASTEWATER	9/3/1999			replace casting asap, look on defect slip CHECKED ON CASTING - BEST TO HAVE NIGHT SHIFT PULL CONES AND SIGNS, CEMENT STILL DAMP INSIDE CASTING
224-196	224-195	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - all ok
224-195	224-358	401	MANUAL INSPECTION-WASTEWATER	9/24/1998			CHECK FOR TRAFFIC CONTROL
224-195	224-358	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - all ok
224-190	224-189	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-188	224-020	401	MANUAL INSPECTION-WASTEWATER	3/5/2001			took s/s card to homeowner 12037 11th ave nw
224-188	224-020	401	MANUAL INSPECTION-WASTEWATER	3/5/2001			12037 11th ave nw; check for odor smell, none there at the time, private line runs through back yard, c-10 will notify home owner
224-184	224-183	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - m/h 183 needs to be jetted, m/h 184 ok
224-183	224-182	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - m/h 183 needs to be located, m/h 182 ok
224-182	224-181	401	OTHR - CARKEEK PARK	2/2/2007			
224-175	224-176	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-173	224-174	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	3/7/1997	NF		CHECKED FOR VANDALISM ON M/H, NO SIGN OF VANDALISM
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	3/11/1997	NF		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	5/29/1997	NF		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	7/23/1997	NF		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	10/17/1997	NF		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	12/2/1997	NF		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	1/8/1998	NF		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	3/13/1998	NF		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	5/21/1998			
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	7/29/1998	LOC		ATTEMPTED TO FIND LOCATION OF POSSIBLE BREAK IN M/L BUT COULD NOT FIND.
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	8/25/1998	NF		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	11/10/1998	NF	OK	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	12/30/1998			labor and equip costed to w/o 221477
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	3/9/1999			LABOR AND EQUIP COSTED TO W/O 225732
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	5/7/1999			NO VANDALISM DETECTED, M/H & M/L LOOK GOOD.
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER				M/H OK HERE - WE WALKED TRAIL, CREEK FLOW LOW, PLASTIC SECURE, BIG TIE DOWN.
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	9/23/1999			
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	12/8/1999			cso check - ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER	1/13/2000			ok

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		3/10/2000	NF	check m/h for vandalism - ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		5/9/2000		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		7/11/2000		good flow
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		7/21/2000 LOC		locate broken m/l sewer request by charlie 7. defect slip at haller lake.
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		7/23/2000		check broken m/l, if it is leaking to the ground; ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		9/11/2000	NF	ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		11/2/2000		ALL OK.
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		1/9/2001		check m/h in carkeek park; ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		3/14/2001		ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		5/4/2001		ok, check for vandalism
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		6/25/2001	CANCL	see w/o 309295
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		6/25/2001	CANCL	see w/o 309295
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		6/25/2001	CANCL	see w/o 309295
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		6/25/2001	CANCL	see w/o 309295
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		6/25/2001	CANCL	see w/o 309295
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		6/25/2001	CANCL	see w/o 309295
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		7/5/2001 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		9/28/2001	NF	ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		11/7/2001 DBR	LIGHT	good flow, minor debris
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		1/15/2002 CLEAR	NF	cut grass around m/h & check for vandalism - ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		3/20/2002 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		5/8/2002 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		7/5/2002 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		9/9/2002 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		10/30/2002	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		1/14/2003		ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		3/4/2003 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		5/1/2003 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		9/12/2003		OK WF LOC EXPOSE 171
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		11/19/2003 CLEAR	NF	carkeek park - check on slide area
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		12/5/2003		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		12/5/2003		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		12/10/2003		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		12/18/2003 CLEAR		check system - ok at this time
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		12/19/2003		check on system
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		12/30/2003		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		12/31/2003		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		1/2/2004 CLEAR	NF	check system - ok
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		1/8/2004		carkeek park - check system
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		1/12/2004 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		1/21/2004		check system
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		2/19/2004	NF	cHECK SYSTEM
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		3/29/2004	RES	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		5/12/2004 DBR	RES	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		5/14/2004 MISC	REF	check sewer, has broken pipe sewage staying in pipe.
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		7/30/2004 VAN	RES	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		9/14/2004 DBR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		10/21/2004		carkeek park - check sewer system, need to work on this a.s.a.p.

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		11/17/2004 MISC		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		2/2/2005	NF	broken m/l 100' from the u/s m/h 224-172
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		3/18/2005		
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		6/29/2005 CLEAR	NF	
224-172	224-171	401	MANUAL INSPECTION-WASTEWATER		11/2/2005 CLEAR	NF	
224-172	224-171	401	MANUAL INSP-WW1100 NW NORCROSS WAY - 2 MONTH		12/15/2005		
224-172	224-171	401	MANUAL INSPECTION SANITARY MAIN - 224-172 224-171		7/12/2007		
224-172	224-171	401	MANUAL INSPECTION SANITARY MAIN - 224-172 224-171		8/27/2007 NOPROB	LIGHT	
224-172	224-171	401	MANUAL INSPECTION SANITARY MAIN - 224-172 224-171		11/6/2007 NOPROB		
224-172	224-171	401	MANUAL INSPECTION SANITARY MAIN - 224-172 224-171		12/26/2007 NOPROB		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/7/1997 NF		CHECKED FOR VANDALISM ON M/H, NO SIGN OF VANDALISM
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/29/1997 NF		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		7/23/1997 NF		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		10/17/1997 NF		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		12/2/1997 NF		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/8/1998 NF		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/13/1998 NF		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		7/6/1998 NF		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		8/25/1998 NF		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		11/10/1998 NF	OK	labor and equip costed to w/o 221477
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		12/30/1998	NF	M/L RUNNING OK, NO VANDALISM
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		2/25/1999		WE DID FIND CRACK ON HILLSIDE IN LINE WITH M/L, CALL CH-10 OR C-7
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/9/1999	NF	NO VANDALISM NOTICED, M/L RUNNING GOOD
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/16/1999		CHECK SYSTEM OUT, OK AT THIS TIME
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/7/1999	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		8/18/1999		incomplete 403, do in am, also check area in carkeek park.
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		9/23/1999	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		12/9/1999	NF	ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/13/2000	NF	ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/10/2000	NF	check m/h for vandalism - ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/9/2000		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		6/6/2000		CARKEEK PARK AREA
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		7/11/2000	NF	good flow
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		9/11/2000	NF	ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		11/2/2000		ALL OK.
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/9/2001		check m/h in carkeek park; ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/14/2001		ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/4/2001		ok at this time, check for vandalism
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		6/25/2001	CANCL	see w/o 309294
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		7/5/2001 CLEAR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		9/28/2001	NF	ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		11/7/2001 DBR	LIGHT	good flow, minor debris
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/15/2002 CLEAR	NF	expose m/h & check channel for debris - ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/20/2002 CLEAR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/8/2002 CLEAR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		7/5/2002 CLEAR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		8/14/2002 UNB		need flatbed crew, bring out portable rodder or eel with 100' of rods.

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		9/9/2002 CLEAR	NF	incl 401; couldn't find - look on GIS, need to go back.; ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		9/13/2002 MTC		m/l needs power rodded due to accessibility
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		9/24/2002		10755 9th ave nw; incomplete; need to go back and try to find it again.
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		10/30/2002	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/9/2003		slide area has drop, check system
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/14/2003		OK
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/4/2003 CLEAR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/1/2003 CLEAR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/2/2003 CLEAR	NF	check system for defect
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		7/17/2003		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		9/12/2003		OK AT THIS TIME
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		11/19/2003 CLEAR	NF	carkeek park - check on slide area
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		12/16/2003		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/12/2004 CLEAR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/29/2004 MISC	RES	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/10/2004 MISC	NF	Check sys nothing found
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		5/12/2004 DBR	RES	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		6/10/2004 MISC	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		6/15/2004 MISC	RES	check broken sewer ok at this time.
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		8/3/2004 VAN	RES	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		8/18/2004		check mh ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		8/31/2004		CARKEEK PARK: CHECK OUR SYSTEM
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		9/14/2004 DBR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		11/17/2004 LOC		locate, expose & marked m/h.
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		12/17/2004		CHECK SYSTEM
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		12/23/2004		CHECK SYSTEM AND LANDSLIDE AREA. RE-CHECK LATER
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		12/29/2004		CARKEEK PARK: CHECK SLIDE AREA
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/13/2005		CARKEEK PARK: CHECK SYSTEM
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/21/2005		CARKEEK PARK: CHECK SLIDE AREA
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/25/2005		CARKEEK PARK: CHECK SLIDE AREA
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		1/26/2005		CARKEEK PARK: MEET CREW CHIEF AT LOCATION
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		2/2/2005	RES	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		3/18/2005		
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		6/15/2005 CLEAR		located d/s, bolted & ok
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		8/8/2005 CLEAR	NF	
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		11/3/2005 CLEAR	NF	ok - good flow.
224-171	224-165	401	MANUAL INSPECTION-WASTEWATER		12/15/2005 NOPROB		
224-171	224-165	401	MANUAL INSPECTION SANITARY MAIN - 224-171 224-165		7/12/2007		
224-171	224-165	401	MANUAL INSPECTION SANITARY MAIN - 224-171 224-165		8/27/2007 NOPROB	LIGHT	
224-171	224-165	401	MANUAL INSPECTION SANITARY MAIN - 224-171 224-165		11/6/2007 NOPROB		
224-171	224-165	401	MANUAL INSPECTION SANITARY MAIN - 224-171 224-165		12/26/2007 NOPROB		
224-171	224-165	401	MANUAL INSPECTION SANITARY MAIN - 224-171 224-165				
224-165	224-164	401	MANUAL INSPECTION-WASTEWATER		5/28/2004		Check system for defects
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		2/14/1997 NF		SYSTEM OKAY
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/11/1997 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/17/1997 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		6/4/1997 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		7/7/1997 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		10/17/1997 NF		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		12/2/1997 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		1/8/1998 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/13/1998 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		5/5/1998 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		7/6/1998 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		9/1/1998 NF		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		11/10/1998 NF	OK	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		12/30/1998 NF	NF	RUNNING OKAY, NO VANDALISM; 3 HOURS ADDITIONAL LABOR ENCOMPASSES ALL 401'S FOR 12/30/98.
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/9/1999	NF	NO VANDALISM FOUND; M/L RUNNING GOOD.
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		5/10/1999	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		9/23/1999	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		12/9/1999	NF	ok
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		1/20/2000		m/h ok
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/10/2000	NF	check m/h for vandalism - ok
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		5/9/2000		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		7/12/2000		located & exposed; ok
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		9/11/2000		check for vandalism, ok at this time
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		11/2/2000		ALL OK.
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		1/11/2001		ok
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/14/2001		ok
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		5/4/2001		ok at this time; check for vandalism
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		6/28/2001 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		9/19/2001 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		11/7/2001 DBR	LIGHT	good flow, minor debris
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		1/2/2002 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/13/2002 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		5/8/2002 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		7/15/2002 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		8/28/2002 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		10/30/2002	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		1/14/2003		OK
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/4/2003 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		5/2/2003 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		7/17/2003		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		9/9/2003		CHECH SYSTEM - OK
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		11/4/2003		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		1/9/2004 UNB		incl manual insp. m/h 222-158 needs to be located.
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		4/2/2004	RES	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		5/4/2004	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		8/3/2004 VAN	RES	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		9/3/2004 CLEAR	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		11/16/2004 LOC		LOCATE, EXPOSE AND MARK M/H
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		1/24/2005	NF	
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		3/18/2005		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		6/15/2005 MISC		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		7/13/2005 UNB		
224-158	224-159	401	MANUAL INSPECTION-WASTEWATER		8/2/2005 CLEAR	NF	incl 401; tried to locate lids in carkeek park.
224-158	224-159		401 MANUAL INSP-WW - 11509 12TH AVE NW - 2 MONTH		12/14/2005		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-158	224-159	401	MANUAL INSPECTION COMBINED MAIN - 224-158 224-159	7/12/2007			
224-158	224-159	401	MANUAL INSPECTION COMBINED MAIN - 224-158 224-159	8/27/2007		LIGHT	
224-158	224-159	401	MANUAL INSPECTION COMBINED MAIN - 224-158 224-159	11/1/2007	NOPROB		
224-158	224-159	401	MANUAL INSPECTION COMBINED MAIN - 224-158 224-159	1/23/2008	NOPROB		
224-158	224-159	401	MANUAL INSPECTION COMBINED MAIN - 224-158 224-159				
224-150	224-205	401	MANUAL INSPECTION-WASTEWATER	11/16/2001	CLEAR	NF	manual inspections - all ok
224-150	224-205	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	CLEAR	NF	manual inspections - all channels ok
224-149	224-148	401	MANUAL INSPECTION-WASTEWATER	3/23/2001			located m/h 224-149
224-148	224-150	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			m/h's all ok
224-148	224-150	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	CLEAR	NF	manual inspections - all channels ok
224-147	224-204	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			m/h's all ok; expose m/h 224-204
224-146	224-147	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			m/h's all ok
224-146	224-147	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	MISC		manual inspections - m/h 146 ok; m/h 147 needs to be located
224-145	224-201	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			
224-145	224-201	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	CLEAR	NF	m/h's all ok
224-144	224-145	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			manual inspections - all channels ok
224-144	224-145	401	MANUAL INSPECTION-WASTEWATER	11/16/2001	CLEAR	NF	m/h's all ok
224-143	224-140	401	MANUAL INSPECTION-WASTEWATER	7/14/2000	UNB		manual inspections - all ok
224-142	224-197	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	CLEAR	NF	manual inspections - all channels ok
224-141	224-142	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			m/h's all ok; locate & expose m/h 224-142, buried in ivy and blackberries
224-141	224-142	401	MANUAL INSPECTION-WASTEWATER	11/21/2001	CLEAR	NF	manual inspection - all ok
224-141	224-142	401	MANUAL INSPECTION-WASTEWATER	11/27/2001	CLEAR	NF	manual inspections - all ok
224-141	224-142	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	CLEAR	NF	manual inspections - all channels ok
224-141	224-142	401	MANUAL INSPECTION-WASTEWATER	5/18/2005			manual insp dye tested void located at 20' w/o u/s mh did not need to back fill
224-141	224-142	401	MANUAL INSPECTION-WASTEWATER	6/8/2005			void in driveway dye tested it dye did not show is DS mhole refer to day shift for backfill
224-140	224-141	401	MANUAL INSPECTION-WASTEWATER	11/27/2001	CLEAR	NF	manual inspections - all ok
224-140	224-141	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - m/h 224-140 - ok
224-139	224-356	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - all ok
224-138	224-139	401	MANUAL INSPECTION-WASTEWATER	4/28/1997	MISC		TOO MUCH WATER AT THIS TIME, NEED TO DO THIS JOB WHEN WEATHER IS DRY
224-137	224-136	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - m/h 137 needs to be located, 136 is ok
224-137	224-136	401	MANUAL INSPECTION-WASTEWATER	3/6/2002	CLEAR	NF	manual inspection m/h 224-136 - all channels ok
224-136	224-134	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-135	224-134	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - m/h 135 needs to be located, 134 is ok
224-135	224-134	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-134	224-133	401	MANUAL INSPECTION-WASTEWATER	3/27/2003			old patch - poke hole with bar, put dye in hole - neg. show.
224-133	224-132	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-131	224-130	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-130	224-129	401	MANUAL INSPECTION-WASTEWATER	11/27/2001	CLEAR	NF	manual inspections - all ok
224-129	224-127	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-127	224-126	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-125	224-124	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - all ok
224-125	224-124	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-123	224-122	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - all ok
224-123	224-122	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok
224-121	224-173	401	MANUAL INSPECTION-WASTEWATER	11/30/2001	CLEAR	NF	manual inspections - all ok
224-121	224-173	401	MANUAL INSPECTION-WASTEWATER	3/21/2002	CLEAR	NF	manual inspections - all ok

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-120	224-151		401 MANUAL INSPECTION-WASTEWATER		2/9/2001		called off job per c-11 to clean up sewage on the sidewalk & street
224-118	224-148		401 MANUAL INSPECTION-WASTEWATER		11/16/2001 CLEAR	NF	manual inspections - all ok
224-117	224-146		401 MANUAL INSPECTION-WASTEWATER		3/22/2001		check main & m/h 224-117; all ok
224-116	224-144		401 MANUAL INSPECTION-WASTEWATER		2/28/2001		m/h's all ok
224-116	224-144		401 MANUAL INSPECTION-WASTEWATER		3/22/2001		check main & m/h 224-116; all ok
224-116	224-144		401 MANUAL INSPECTION-WASTEWATER		11/16/2001 CLEAR	NF	manual inspections - all ok
224-116	224-144		401 MANUAL INSPECTION-WASTEWATER		3/6/2002 CLEAR	NF	manual inspections - all channels ok
224-115	224-140		401 MANUAL INSPECTION-WASTEWATER		2/28/2001		m/h's all ok
224-115	224-140		401 MANUAL INSPECTION-WASTEWATER		3/22/2001		check main & m/h; all ok
224-115	224-140		401 MANUAL INSPECTION-WASTEWATER		11/21/2001 CLEAR	NF	manual inspection - all ok
224-115	224-140		401 MANUAL INSPECTION-WASTEWATER		3/6/2002 CLEAR	NF	manual inspections - all channels ok
224-114	224-136		401 MANUAL INSPECTION-WASTEWATER		11/30/2001 CLEAR	NF	manual inspections - all ok
224-113	224-133		401 MANUAL INSPECTION-WASTEWATER		11/27/2001 CLEAR	NF	manual inspections - all ok
224-112	224-113		401 MANUAL INSPECTION-WASTEWATER		11/27/2001 CLEAR	NF	manual inspections - all ok
224-112	224-113		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-112	224-113		401 MANUAL INSPECTION-WASTEWATER		3/21/2002 CLEAR	NF	manual inspections - all ok
224-111	224-118		401 MANUAL INSPECTION-WASTEWATER		2/28/2001		m/h's all ok
224-111	224-118		401 MANUAL INSPECTION-WASTEWATER		11/16/2001 CLEAR	NF	manual inspections - all ok
224-111	224-118		401 MANUAL INSPECTION-WASTEWATER		3/6/2002 CLEAR	NF	manual inspections - all channels ok
224-110	224-109		401 MANUAL INSPECTION-WASTEWATER		2/28/2001		need to locate m/h 110
224-110	224-109		401 MANUAL INSPECTION-WASTEWATER		4/4/2001		UNABLE TO LOCATE M/H 110 ON PROPERTY LINE. NEIGHBOR AT 12032 JUST LAYED NEW LANDSCAPE HOWEVER M/H D/S 224-109 IS EXPOSED.
224-109	224-117		401 MANUAL INSPECTION-WASTEWATER		1/12/1998 UNB		INC. 403 - PLS, EXPOSE M/H - HAS SEAL COAT OVER IT.
224-109	224-117		401 MANUAL INSPECTION-WASTEWATER		2/28/2001		m/h's all ok
224-109	224-117		401 MANUAL INSPECTION-WASTEWATER		3/6/2002 MISC		manual inspections - m/h 109 ok; m/h 117 needs to be located
224-108	224-116		401 MANUAL INSPECTION-WASTEWATER		11/16/2001 CLEAR	NF	manual inspections - all ok
224-107	224-115		401 MANUAL INSPECTION-WASTEWATER		11/21/2000		Deliver casting & lid to jobsite, p/u old one.
224-107	224-115		401 MANUAL INSPECTION-WASTEWATER		11/27/2001 CLEAR	NF	manual inspections - all ok
224-105	224-104		401 MANUAL INSPECTION-WASTEWATER		11/20/1997 MISC		CHECK DEPRESSED AREA AND PAVE OVER M/H
224-105	224-104		401 MANUAL INSPECTION-WASTEWATER		11/27/2001 CLEAR	NF	manual inspections - all ok
224-105	224-104		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-104	224-103		401 MANUAL INSPECTION-WASTEWATER		11/20/1997 MISC		CHECK DEPRESSED AREA AND PAVE OVER M/H
224-104	224-103		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-103	224-418		401 MANUAL INSPECTION-WASTEWATER		11/20/1997 MISC		CHECK DEPRESSED AREA AND PAVE OVER M/H
224-103	224-418		401 MANUAL INSPECTION-WASTEWATER		1/30/2001		all ok
224-103	224-418		401 MANUAL INSPECTION-WASTEWATER		11/27/2001 CLEAR	NF	manual inspections - all ok
224-099	224-414		401 MANUAL INSPECTION-WASTEWATER		1/24/2001		all m/h ok
224-099	224-414		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-095	224-086		401 MANUAL INSPECTION-WASTEWATER		5/5/1997 UNB		ATTEMPTED TO FLOAT KITE THRU M/L FOR TV INSP WITH PORTABLE WINCH.KITE WOULD NOT FLOAT THRU.(FLOATED POLYLINE THRU M/L AND LEFT IN OVER NIGHT FOR TV INSP.) NOTE:NOT ENOUGH TIME FOR TV INSP.
224-095	224-086		401 MANUAL INSPECTION-WASTEWATER		1/24/2001		m/h all ok
224-095	224-086		401 MANUAL INSPECTION-WASTEWATER		11/28/2001 CLEAR	NF	manual inspections - all ok
224-095	224-086		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER		2/13/1997 NF		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	2/21/1997			LOCATED AND EXPOSED MHS,FLOATED POLYLINE FROM 224-091 1021 FT 4 RUNS UNABLE TO PULL POLYLINE OR CAMERA,TO MUCH FLOW IN LINE .
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/11/1997 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/17/1997 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	6/4/1997 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	7/7/1997 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	10/17/1997 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	12/2/1997 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	1/8/1998 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/13/1998 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	5/5/1998 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	7/6/1998 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	9/1/1998 NF			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	11/10/1998 NF	OK		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	12/30/1998	NF		RUNNING OK, NO VANDALISM
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/9/1999 NF			NO VANDALISM NOTICED, M/L RUNNING GOOD.
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	5/10/1999	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	9/23/1999	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	12/8/1999			check for vandalism - ok
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	1/20/2000			m/h ok
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/10/2000	NF		check m/h for vandalism - ok
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	5/9/2000			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	7/12/2000			located & exposed; ok
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	9/11/2000			check for vandalism; ok at this time
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	11/2/2000			ALL OK.
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	1/11/2001			ok
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/14/2001			ok
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	5/4/2001			ok at this time, check for vandalism
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	9/19/2001 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	11/7/2001 DBR	LIGHT		good flow, minor debris
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	1/2/2002 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/13/2002 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	5/8/2002 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	7/5/2002 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	8/28/2002 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	10/30/2002	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	1/14/2003		OK	
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/4/2003 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	5/2/2003 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	7/3/2003			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	9/9/2003			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	9/9/2003			CHECK SYSTEM - OK
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	11/4/2003			
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	1/9/2004 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	3/29/2004	RES		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	5/4/2004	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	7/15/2004 VAN	RES		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	9/3/2004 CLEAR	NF		
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	11/16/2004			LOCATE, EXPOSE AND MARK M/H
224-094	224-159		401 MANUAL INSPECTION-WASTEWATER	1/24/2005	NF		

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-094	224-159	401	MANUAL INSPECTION-WASTEWATER	3/18/2005			
224-094	224-159	401	MANUAL INSPECTION-WASTEWATER	6/29/2005 UNB			incl 401; couldn't locate needs to locate both m/h 6/15/05 <input type="checkbox"/>
224-094	224-159	401	MANUAL INSPECTION-WASTEWATER	8/2/2005 CLEAR	NF		
224-094	224-159	401	MANUAL INSPECTION-WASTEWATER	10/7/2005 CLEAR	NF		
224-094	224-159	401	MANUAL INSPECTION-WW 11509 12TH AVE NW - 2 MONTH	12/14/2005			
224-094	224-159	401	MANUAL INSPECTION-WASTEWATER - 2 MONTHS	11/27/2006 NOPROB	LIGHT		
224-094	224-159	401	MANUAL INSPECTION-WASTEWATER - 224-094 224-159	1/3/2007 NOPROB	LIGHT		
224-094	224-159	401	MANUAL INSP-WW 224-094 224-159 - 2 MONTHS	2/6/2007			
224-094	224-159	401	MANUAL INSP-WW 224-094 224-159 - 2 MONTHS	2/6/2007			
224-094	224-159	401	MANUAL INSP-WW 224-094 224-159 - 2 MONTHS	2/6/2007			
224-094	224-159	401	MANUAL INSP-WW 224-094 224-159 - 2 MONTHS	2/23/2007			
224-094	224-159	401	MANUAL INSPECTION SANITARY MAIN - 224-094 224-159	4/26/2007 NOPROB			
224-094	224-159	401	MANUAL INSPECTION SANITARY MAIN - 224-094 224-159	6/6/2007 NOPROB			
224-094	224-159	401	MANUAL INSPECTION SANITARY MAIN - 224-094 224-159	7/12/2007			
224-094	224-159	401	MANUAL INSPECTION SANITARY MAIN - 224-094 224-159	8/27/2007	LIGHT		
224-094	224-159	401	MANUAL INSPECTION SANITARY MAIN - 224-094 224-159	11/2/2007 NOPROB			
224-094	224-159	401	MANUAL INSPECTION SANITARY MAIN - 224-094 224-159	12/26/2007 NOPROB			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	2/13/1997 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	2/13/1997 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	2/14/1997			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	3/11/1997 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	3/17/1997 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	5/29/1997 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	7/23/1997 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	10/17/1997 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	12/2/1997 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	1/8/1998 NF			CHECKED M/H FOR VANDALISM - FINE.
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	3/13/1998 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	7/6/1998 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	7/8/1998			We have a few runs to do in here and we're looking for m/h's and access
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	8/25/1998 NF			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	11/10/1998 NF	OK		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	12/30/1998	NF		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	3/10/1999			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	3/16/1999	NF		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	5/10/1999	NF		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	9/15/1999			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	9/23/1999	NF		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	12/8/1999			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	1/13/2000			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	3/10/2000	NF		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	5/2/2000	NF		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	9/6/2000			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	11/3/2000			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	1/9/2001			
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER	3/14/2001			

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		5/16/2001		ok at this time, very little flow, no channel, light/med debris
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		7/5/2001	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		9/19/2001	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		11/9/2001	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		1/2/2002	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		3/20/2002	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		5/8/2002	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		7/25/2002	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		9/9/2002	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		10/30/2002		NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		1/14/2003		OK
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		3/4/2003	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		5/2/2003	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		7/3/2003		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		9/10/2003		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		9/10/2003		CHECK FOR VANDALISM
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		11/4/2003		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		1/9/2004	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		3/23/2004		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		5/5/2004	DBR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		7/15/2004		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		9/10/2004	DBR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		11/16/2004	LOC	LOCATE, EXPOSE AND MARK M/H
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		1/19/2005		NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		3/18/2005		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		7/12/2005	UNB	incl 401 w/o 418265; unable to locate m/h's, require s/s card.
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		8/12/2005	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER		10/20/2005	CLEAR	NF
224-093	224-094	401	MANUAL INSPECTION-WW -11700 9TH AVE NW - 2 MONTH		12/14/2005		
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER 224-093 224-094		11/27/2006	NOPROB	LIGHT
224-093	224-094	401	MANUAL INSPECTION-WASTEWATER 224-093 224-094		1/3/2007	NOPROB	LIGHT
224-093	224-094	401	MANISP-WW 224-093 224-094 - 2 MONTHS		2/6/2007		
224-093	224-094	401	MANISP-WW 224-093 224-094 - 2 MONTHS		2/6/2007		
224-093	224-094	401	MANISP-WW 224-093 224-094 - 2 MONTHS		2/6/2007		
224-093	224-094	401	MANISP-WW 224-093 224-094 - 2 MONTHS		2/23/2007		
224-093	224-094	401	MANUAL INSPECTION SANITARY MAIN - 224-093 224-094		4/3/2007	NOPROB	
224-093	224-094	401	MANUAL INSPECTION SANITARY MAIN - 224-093 224-094		6/6/2007	NOPROB	
224-093	224-094	401	MANUAL INSPECTION SANITARY MAIN - 224-093 224-094		7/12/2007		
224-093	224-094	401	MANUAL INSPECTION SANITARY MAIN - 224-093 224-094		8/27/2007		LIGHT
224-093	224-094	401	MANUAL INSPECTION SANITARY MAIN - 224-093 224-094		11/1/2007	NOPROB	
224-093	224-094	401	MANUAL INSPECTION SANITARY MAIN - 224-093 224-094		12/26/2007	NOPROB	
224-093	224-094	401	MANUAL INSPECTION SANITARY MAIN - 224-093 224-094		1/24/2001		m/h all ok
224-088	224-409	401	MANUAL INSPECTION-WASTEWATER		1/24/2001		m/h all ok
224-086	224-087	401	MANUAL INSPECTION-WASTEWATER		11/28/2001	CLEAR	NF
224-086	224-087	401	MANUAL INSPECTION-WASTEWATER		3/1/2001		manual inspections - all ok
224-085	224-158	401	MANUAL INSPECTION-WASTEWATER		3/1/2001		inspect m/h's, exposed 224-158
224-084	224-085	401	MANUAL INSPECTION-WASTEWATER		5/2/2003	CLEAR	NF
224-084	224-085	401	MANUAL INSPECTION-WASTEWATER		12/14/2001	CLEAR	NF
224-083	224-084	401	MANUAL INSPECTION-WASTEWATER		3/10/2005		check system for defect
224-083	224-084	401	MANUAL INSPECTION-WASTEWATER				manual inspections - all ok
224-083	224-084	401	MANUAL INSPECTION-WASTEWATER				ML running ok no odor detected no inside home james 364-7198

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-083	224-084		401 MANUAL INSPECTION-WASTEWATER		3/11/2005		called sewer odor, check our ML is normal odor is in side house not by sewer odor, private
224-083	224-084		401 ODOR - 11701 12TH AVE NW		8/7/2007		
224-082	224-154		401 MANUAL INSPECTION-WASTEWATER		12/4/2004 UNB		incl 402; could not complete due to no access for vactor, the run is in wooded area behind residence.
224-081	224-082		401 MANUAL INSPECTION-WASTEWATER		11/20/1997 MISC		CHECK DEPRESSED AND PAVE OVER M/H
224-080	224-081		401 MANUAL INSPECTION-WASTEWATER		5/2/2003 CLEAR	NF	check system for defect; loc & expose m/h 080
224-079	224-080		401 MANUAL INSPECTION-WASTEWATER		3/1/2001	NF	inspect m/h's; locate & expose m/h 224-080
224-079	224-080		401 MANUAL INSPECTION-WASTEWATER		5/2/2003 CLEAR	NF	check & exposed m/h's - ok
224-079	224-080		401 MANUAL INSPECTION-WASTEWATER		8/13/2004		called strong sewer odor, check ML, no smell, walk to address, strong sewer odor at the door, see some toilet paper s/o the house can't contact caller
224-078	224-079		401 MANUAL INSPECTION-WASTEWATER		12/14/2001 CLEAR	NF	manual inspections - all ok
224-078	224-079		401 MANUAL INSPECTION-WASTEWATER		3/27/2002 CLEAR	NF	manual inspections; all ok
224-077	224-078		401 MANUAL INSPECTION-WASTEWATER		11/23/1999		set up pump & bypass for tv crew. return equip.
224-077	224-078		401 MANUAL INSPECTION-WASTEWATER		3/1/2001		inspect m/h's; all ok
224-077	224-078		401 MANUAL INSPECTION-WASTEWATER		12/14/2001 CLEAR	NF	manual inspections - all ok
224-077	224-078		401 MANUAL INSPECTION-WASTEWATER		3/27/2002 CLEAR	NF	manual inspections; all ok
224-077	224-078		401 MANUAL INSPECTION-WASTEWATER		12/23/2004		M/H 224-154/155 COVERED WITH PLATES□ □ □
							CHECKED M/H'S 224-079 TO 224-080□ 224-075 TO 224-076□ □
							(ESMT W/O 12TH AV NW/NW 117TH ST TO NW 120TH ST)
224-075	224-076		401 MANUAL INSPECTION-WASTEWATER		3/1/2001		inspect m/h's; all ok
224-075	224-076		401 MANUAL INSPECTION-WASTEWATER		12/14/2001 CLEAR	NF	manual inspections - all ok
224-075	224-076		401 MANUAL INSPECTION-WASTEWATER		3/27/2002 CLEAR	NF	manual inspections; all ok
224-072	224-073		401 MANUAL INSPECTION-WASTEWATER		3/1/2001		inspect m/h's, all ok
224-072	224-073		401 MANUAL INSPECTION-WASTEWATER		3/27/2002 CLEAR	NF	manual inspections; all ok
224-072	224-073		401 MANUAL INSPECTION-WASTEWATER		1/14/2003	NF	DID NOT FIND A ROD IN THE CHANNEL
224-072	224-073		401 MANUAL INSPECTION-WASTEWATER		12/14/2001 CLEAR	NF	manual inspections - all ok
224-071	224-074		401 MANUAL INSPECTION-WASTEWATER		12/14/2001 CLEAR	NF	inspect m/h 224-070
224-070	224-071		401 MANUAL INSPECTION-WASTEWATER		3/1/2001		manual inspections - all ok
224-070	224-071		401 MANUAL INSPECTION-WASTEWATER		12/14/2001 CLEAR	NF	inspect m/h's, all ok
224-069	224-070		401 MANUAL INSPECTION-WASTEWATER		12/14/2001 CLEAR	NF	manual inspections - all ok
224-068	224-069		401 MANUAL INSPECTION-WASTEWATER		3/1/2001		inspect m/h's, all ok
224-068	224-069		401 MANUAL INSPECTION-WASTEWATER		12/14/2001 CLEAR	NF	manual inspections - all ok
224-068	224-069		401 MANUAL INSPECTION-WASTEWATER		3/27/2002 CLEAR	NF	manual inspections; all ok
224-065	224-066		401 MANUAL INSPECTION-WASTEWATER		2/28/2001		m/h's all ok
224-065	224-066		401 MANUAL INSPECTION-WASTEWATER		3/22/2001		exposed m/h's
224-063	224-064		401 MANUAL INSPECTION-WASTEWATER		2/28/2001		need to locate m/h's 063 & 064
224-063	224-064		401 MANUAL INSPECTION-WASTEWATER		3/22/2001		re marked m/h 224-063/ exposed m/h 064
224-058	224-059		401 MANUAL INSPECTION-WASTEWATER		2/28/2001		m/h's all ok
224-058	224-059		401 MANUAL INSPECTION-WASTEWATER		3/22/2001		check main & m/h 224-058; all ok
224-058	224-059		401 MANUAL INSPECTION-WASTEWATER		11/16/2001		manual inspections - m/h needs to be jetted, debris in m/l 059 to 058 to 062. defect to c-10.
224-058	224-059		401 MANUAL INSPECTION-WASTEWATER		3/6/2002 DBR	LIGHT	manual inspections - m/h 058 light debris, m/h 059 ok
224-056	224-057		401 MANUAL INSPECTION-WASTEWATER		9/5/1997 MISC		PUT RAPO AROUND LID - NOW RISER RING NOISE ALSO WRONG KIND OF RISER RING TO SEAT TOO WIDE

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-056	224-057	401	MANUAL INSPECTION-WASTEWATER	9/25/1997 MISC			CHECKED FOR FUTURE M/H CASTING TO BE RAISED
224-056	224-057	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			m/h's all ok
224-056	224-057	401	MANUAL INSPECTION-WASTEWATER	3/22/2001			check main & m/h 224-056; all ok
224-056	224-057	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-055	224-108	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			m/h's all ok
224-055	224-108	401	MANUAL INSPECTION-WASTEWATER	3/22/2001			check main & m/h; all ok
224-055	224-108	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-054	224-053	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			m/h's all ok
224-054	224-053	401	MANUAL INSPECTION-WASTEWATER	11/16/2001			manual inspections - m/h 054 defect to c-11
224-054	224-053	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 MISC			manual inspections - m/h 053 ok, m/h 054 needs to be located.
224-054	224-053	401	MANUAL INSPECTION-WASTEWATER	4/30/2002 LOC			224-054 located, exposed, marked.
224-053	224-055	401	MANUAL INSPECTION-WASTEWATER	3/1/2001 LOC			located m/h 224-053 to be raised
224-053	224-055	401	MANUAL INSPECTION-WASTEWATER	11/16/2001 CLEAR	NF		manual inspections - all ok
224-052	224-053	401	MANUAL INSPECTION-WASTEWATER	2/28/2001			m/h's all ok
224-052	224-053	401	MANUAL INSPECTION-WASTEWATER	3/22/2001			check main & m/h; all ok
224-052	224-053	401	MANUAL INSPECTION-WASTEWATER	11/16/2001 CLEAR	NF		manual inspections - all ok
224-052	224-053	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-051	224-107	401	MANUAL INSPECTION-WASTEWATER	2/28/2001	NF		m/h's all ok
224-051	224-107	401	MANUAL INSPECTION-WASTEWATER	3/22/2001	NF		check main & m/h; all ok
224-051	224-107	401	MANUAL INSPECTION-WASTEWATER	11/21/2001 CLEAR	NF		manual inspection - all ok
224-051	224-107	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-049	224-050	401	MANUAL INSPECTION-WASTEWATER	8/10/2000			not needed, m/h is not in traffic circle
224-049	224-050	401	MANUAL INSPECTION-WASTEWATER	2/28/2001	NF		m/h's all ok
224-049	224-050	401	MANUAL INSPECTION-WASTEWATER	3/22/2001			check main & m/h; all ok
224-049	224-050	401	MANUAL INSPECTION-WASTEWATER	11/21/2001 CLEAR	NF		manual inspection - all ok
224-049	224-050	401	MANUAL INSPECTION-WASTEWATER	3/6/2002 CLEAR	NF		manual inspections - all channels ok
224-048	224-106	401	MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		manual inspections - all ok
224-048	224-106	401	MANUAL INSPECTION-WASTEWATER	8/17/2005			picked up no parks at this location
224-047	224-048	401	MANUAL INSPECTION-WASTEWATER	5/2/1997 UNB			CHECKING FOR TV INSP.(NOT ENOUGH TIME FOR TV INSP)
224-047	224-048	401	MANUAL INSPECTION-WASTEWATER	5/2/1997 UNB			CHECKING FOR TV INSP.(NOT ENOUGH TIME FOR TV INSP)
224-046	224-047	401	MANUAL INSPECTION-WASTEWATER	11/30/2001 CLEAR	NF		manual inspections - all ok
224-045	224-105	401	MANUAL INSPECTION-WASTEWATER	1/30/2001			all ok
224-045	224-105	401	MANUAL INSPECTION-WASTEWATER	11/27/2001 CLEAR	NF		manual inspections - all ok
224-045	224-105	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF		manual inspections - all ok
224-045	224-105	401	OTHER - 12017 4TH AV NW	9/11/2006 NOPROB			manual inspections - all ok
224-044	224-045	401	MANUAL INSPECTION-WASTEWATER	11/20/1997 MISC			CHECK DEPRESSED AND PAVE OVER M/H
224-044	224-045	401	MANUAL INSPECTION-WASTEWATER	3/15/2002 CLEAR	NF		manual inspections - all ok
224-043	224-044	401	MANUAL INSPECTION-WASTEWATER	11/18/1997 MISC			CHECK ON PAVEMENT OVER DEPRESSED M/H
224-043	224-044	401	MANUAL INSPECTION-WASTEWATER	11/20/1997 MISC			CHECK DEPRESSED AND PAVE OVER M/H
224-043	224-044	401	MANUAL INSPECTION-WASTEWATER	1/30/2001			all ok
224-043	224-044	401	MANUAL INSPECTION-WASTEWATER	11/27/2001 CLEAR	NF		manual inspections m/h 224-043 - all ok
224-043	224-044	401	MANUAL INSPECTION-WASTEWATER	3/15/2002 CLEAR	NF		manual inspections - all ok
224-043	224-044	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF		manual inspections - all ok
224-042	224-104	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF		manual inspections - all ok
224-041	224-042	401	MANUAL INSPECTION-WASTEWATER	3/15/2002 CLEAR	NF		manual inspections - all ok
224-040	224-041	401	MANUAL INSPECTION-WASTEWATER	1/30/2001			all ok
224-040	224-041	401	MANUAL INSPECTION-WASTEWATER	3/15/2002 CLEAR	NF		manual inspections - all ok
224-040	224-041	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF		manual inspections - all ok

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTDTM	SEVERITY	COMMENTS
224-039	224-417		401 MANUAL INSPECTION-WASTEWATER		3/12/1997 UNB		CHECKING FOR TV INSP (NOT ENOUGH TIME FOR TV INSP)
224-039	224-417		401 MANUAL INSPECTION-WASTEWATER		3/25/1997 UNB		SET UP PORTABLE WINCH AT U/S M/H AND ATTEMPTED TO FLOAT KITE THRU M/L FOR TV INSP. RESIDENT CAME OUT AND TOLD ME THAT THIS RUN WAS TV'ED TWO DAYS AGO. (THREE RESIDENTS WERE VERY UPSET ABOUT THE FLOODING IN THEIR HOME THAT HAPPENED BACK ON JANUARY 1ST. AFTER
224-039	224-417		401 MANUAL INSPECTION-WASTEWATER		11/20/1997 MISC		CHECK DEPRESSED AND PAVE OVER M/H
224-039	224-417		401 MANUAL INSPECTION-WASTEWATER		1/30/2001		all ok
224-039	224-417		401 MANUAL INSPECTION-WASTEWATER		5/9/2003 CLEAR	NF	manual inspections - all ok
224-038	224-039		401 MANUAL INSPECTION-WASTEWATER		3/26/1997		ATTEMPTED TO TV LINE WAS CALLED TO ANOTHER LOCATION
224-038	224-039		401 MANUAL INSPECTION-WASTEWATER		11/27/2001 CLEAR	NF	manual inspections - all ok
224-038	224-039		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-037	224-038		401 MANUAL INSPECTION-WASTEWATER		1/30/2001		all ok
224-037	224-038		401 MANUAL INSPECTION-WASTEWATER		11/27/2001 CLEAR	NF	manual inspections - all ok
224-037	224-038		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-037	224-038		401 MANUAL INSPECTION-WASTEWATER		5/9/2003 CLEAR	NF	manual inspections - all ok
224-036	224-416		401 MANUAL INSPECTION-WASTEWATER		11/21/2001 CLEAR	NF	manual inspection - all ok
224-036	224-416		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-035	224-036		401 MANUAL INSPECTION-WASTEWATER		11/18/1997 MISC		CHECK ON PAVEMENT OVER DEPRESSED M/H
224-035	224-036		401 MANUAL INSPECTION-WASTEWATER		1/24/2001		all m/h ok
224-035	224-036		401 MANUAL INSPECTION-WASTEWATER		11/28/2001 CLEAR	NF	manual inspections - all ok
224-035	224-036		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-035	224-036		401 MANUAL INSPECTION-WASTEWATER		5/9/2003 CLEAR	NF	manual inspections - all ok
224-034	224-035		401 MANUAL INSPECTION-WASTEWATER		11/18/1997 MISC		CHECK ON PAVEMENT OVER DEPRESSED M/H
224-033	224-034		401 MANUAL INSPECTION-WASTEWATER		11/18/1997 MISC		CHECK ON PAVEMENT OVER DEPRESSED M/H
224-033	224-034		401 MANUAL INSPECTION-WASTEWATER		1/24/2001		expose m/h 034, lid full of asphalt
224-033	224-034		401 MANUAL INSPECTION-WASTEWATER		11/21/2001 CLEAR	NF	manual inspection - all ok
224-033	224-034		401 MANUAL INSPECTION-WASTEWATER		11/28/2001 CLEAR	NF	manual inspections - all ok
224-033	224-034		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-033	224-034		401 MANUAL INSPECTION-WASTEWATER		5/9/2003 CLEAR	NF	manual inspections - all ok
224-032	224-026		401 MANUAL INSPECTION-WASTEWATER		1/24/2001		m/h 224-032 ok
224-032	224-026		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-032	224-026		401 MANUAL INSPECTION-WASTEWATER		5/9/2003 CLEAR	NF	manual inspections - all ok
224-031	224-086		401 MANUAL INSPECTION-WASTEWATER		11/18/1997 MISC		CHECK ON PAVEMENT OVER DEPRESSED M/H
224-031	224-086		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	manual inspections - all ok
224-030	224-031		401 MANUAL INSPECTION-WASTEWATER		6/27/1997 NF		CHECKED VOID COMPLAINT - VOID HAS ALREADY BEEN BACKFILLED AND BARRICADES REMOVED
224-030	224-031		401 MANUAL INSPECTION-WASTEWATER		6/27/1997 NF		
224-030	224-031		401 MANUAL INSPECTION-WASTEWATER		11/18/1997 MISC		
224-030	224-031		401 MANUAL INSPECTION-WASTEWATER		1/24/2001		
224-030	224-031		401 MANUAL INSPECTION-WASTEWATER		11/28/2001 CLEAR	NF	
224-029	224-023		401 MANUAL INSPECTION-WASTEWATER		11/28/2001 CLEAR	NF	
224-028	224-029		401 MANUAL INSPECTION-WASTEWATER		1/24/2001		
224-028	224-029		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	
224-027	224-028		401 MANUAL INSPECTION-WASTEWATER		1/24/2001		
224-027	224-028		401 MANUAL INSPECTION-WASTEWATER		11/28/2001 CLEAR	NF	
224-027	224-028		401 MANUAL INSPECTION-WASTEWATER		3/15/2002 CLEAR	NF	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
224-026	224-007	401	MANUAL INSPECTION-WASTEWATER	11/28/2001 CLEAR	NF	manual inspection m/h 224-026 - all ok	
224-026	224-007	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
224-025	224-067	401	MANUAL INSPECTION-WASTEWATER	1/24/2001		m/h 224-025 ok	
224-025	224-067	401	MANUAL INSPECTION-WASTEWATER	3/1/2001		inspect m/h's, all ok	
224-025	224-067	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-024	224-022	401	MANUAL INSPECTION-WASTEWATER	1/24/2001		all m/h ok	
224-024	224-022	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-023	224-021	401	MANUAL INSPECTION-WASTEWATER	1/24/2001		all m/h ok	
224-023	224-021	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-022	224-020	401	MANUAL INSPECTION-WASTEWATER	1/24/2001		all m/h ok	
224-021	224-016	401	MANUAL INSPECTION-WASTEWATER	12/18/2001		manual inspections - all ok	
224-021	224-016	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
224-020	224-016	401	MANUAL INSPECTION-WASTEWATER	12/18/2001		manual inspections - all ok	
224-020	224-016	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-018	224-019	401	MANUAL INSPECTION-WASTEWATER	3/1/2001		inspect m/h 224-018	
224-018	224-019	401	MANUAL INSPECTION-WASTEWATER	11/28/2001 CLEAR	NF	manual inspections - all ok	
224-017	224-018	401	MANUAL INSPECTION-WASTEWATER	3/23/2001		tried to locate m/h 017 from this morning. could not find, does have access from d/s	
224-017	224-018	401	MANUAL INSPECTION-WASTEWATER	3/23/2001		couldn't locate m/h 017	
224-017	224-018	401	MANUAL INSPECTION-WASTEWATER	11/28/2001 CLEAR	NF	manual inspections - all ok	
224-017	224-018	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-016	224-015	401	MANUAL INSPECTION-WASTEWATER	1/24/2001		all m/h ok	
224-016	224-015	401	MANUAL INSPECTION-WASTEWATER	3/1/2001		inspect m/h 224-016	
224-016	224-015	401	MANUAL INSPECTION-WASTEWATER	12/14/2001 CLEAR	NF	manual inspections - all ok	
224-016	224-015	401	MANUAL INSPECTION-WASTEWATER	12/18/2001		manual inspections - all ok	
224-016	224-015	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-016	224-015	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
224-015	224-014	401	MANUAL INSPECTION-WASTEWATER	12/18/2001		manual inspections - all ok	
224-014	224-014	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-013	224-014	401	MANUAL INSPECTION-WASTEWATER	3/1/2001		inspect m/h's, all ok	
224-013	224-014	401	MANUAL INSPECTION-WASTEWATER	11/28/2001 CLEAR	NF	manual inspections - all ok	
224-013	224-014	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
224-011	224-012	401	MANUAL INSPECTION-WASTEWATER	3/1/2001		inspect m/h's, wrote defect to have 224-012 jetted	
224-011	224-012	401	MANUAL INSPECTION-WASTEWATER	11/28/2001 CLEAR	NF	manual inspections - all ok	
224-011	224-012	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-011	224-012	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
224-010	224-388	401	MANUAL INSPECTION-WASTEWATER	12/14/2001 CLEAR	NF	manual inspections - all ok	
224-010	224-388	401	MANUAL INSPECTION-WASTEWATER	12/18/2001		manual inspections - all ok	
224-010	224-388	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-009	224-016	401	MANUAL INSPECTION-WASTEWATER	12/14/2001 CLEAR	NF	manual inspections - all ok	
224-009	224-016	401	MANUAL INSPECTION-WASTEWATER	12/18/2001		manual inspections - all ok	
224-008	224-013	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-007	224-006	401	MANUAL INSPECTION-WASTEWATER	1/24/2001		all m/h ok	
224-007	224-006	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-007	224-006	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
224-006	224-005	401	MANUAL INSPECTION-WASTEWATER	3/1/2001		inspect m/h 224-006	
224-006	224-005	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-005	224-003	401	MANUAL INSPECTION-WASTEWATER	1/24/2001		all m/h ok	
224-005	224-003	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
224-004	224-009	401	MANUAL INSPECTION-WASTEWATER	1/24/2001		m/h 004 need to be located, everything ok	
224-004	224-009	401	MANUAL INSPECTION-WASTEWATER	12/14/2001 CLEAR	NF	manual inspections - all ok	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM COMPTTM	FOUND	SEVERITY	COMMENTS
224-004	224-009	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-004	224-009	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - m/h 224-004 ok	
224-003	224-002	401	MANUAL INSPECTION-WASTEWATER	3/1/2001		inspect m/h's; all ok	
224-003	224-002	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-002	224-001	401	MANUAL INSPECTION-WASTEWATER	3/1/2001		inspect m/h's; locate & expose 224-001	
224-002	224-001	401	MANUAL INSPECTION-WASTEWATER	2/28/2002 CLEAR	NF	manual inspections - all ok	
224-002	224-001	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
224-001	224-008	401	MANUAL INSPECTION-WASTEWATER	11/28/2001 CLEAR	NF	manual inspections - all ok	
224-001	224-008	401	MANUAL INSPECTION-WASTEWATER	5/9/2003 CLEAR	NF	manual inspections - all ok	
219-383	219-240	401	MANUAL INSPECTION-WASTEWATER	3/20/2003 CLEAR	NF	manual inspections - all ok	
219-371	219-273	401	MANUAL INSPECTION-WASTEWATER	2/5/2002 CLEAR	NF	manual inspections - all ok	
219-370	219-333	401	MANUAL INSPECTION-WASTEWATER	10/8/2002 CLEAR	NF	manual inspections - all ok	
219-340	219-341	401	MANUAL INSPECTION-WASTEWATER	10/8/2002 CLEAR	NF	manual inspections - all ok	
219-339	219-340	401	MANUAL INSPECTION-WASTEWATER	2/5/2002 CLEAR	NF	manual inspections - all ok	
219-339	219-340	401	MANUAL INSPECTION-WASTEWATER	10/8/2002 CLEAR	NF	manual inspections - all ok	
219-336	219-337	401	MANUAL INSPECTION-WASTEWATER	10/8/2002 CLEAR	NF	manual inspections - all ok	
219-335	219-336	401	MANUAL INSPECTION-WASTEWATER	9/11/2002 CLEAR	NF	manual inspections - all ok	
219-334	219-335	401	MANUAL INSPECTION-WASTEWATER	10/9/2002		manual inspections - all ok	
219-333	219-336	401	MANUAL INSPECTION-WASTEWATER	7/26/2002 CLEAR	NF	manual inspections; all ok	
219-333	219-336	401	MANUAL INSPECTION-WASTEWATER	10/8/2002 CLEAR	NF	manual inspections - all ok	
219-332	219-333	401	MANUAL INSPECTION-WASTEWATER	1/27/2000		check m/h, all seem to be clear	
219-332	219-333	401	MANUAL INSPECTION-WASTEWATER	7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.	
219-331	219-332	401	MANUAL INSPECTION-WASTEWATER	1/27/2000		check m/h, all seem to be clear	
219-331	219-332	401	MANUAL INSPECTION-WASTEWATER	7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.	
219-331	219-332	401	MANUAL INSPECTION-WASTEWATER	7/26/2002 CLEAR	NF	manual inspections; all ok	
219-330	219-329	401	MANUAL INSPECTION-WASTEWATER	1/27/2000		check m/h, all seem to be clear	
219-330	219-329	401	MANUAL INSPECTION-WASTEWATER	7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.	
219-330	219-329	401	MANUAL INSPECTION-WASTEWATER	10/9/2002		manual inspections; minor debris, no blockages.	
219-329	219-370	401	MANUAL INSPECTION-WASTEWATER	7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.	
219-329	219-370	401	MANUAL INSPECTION-WASTEWATER	3/20/2003 CLEAR	NF	manual inspections - m/h 219-329 ok	
219-328	225-002	401	MANUAL INSPECTION-WASTEWATER	7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages. m/h 219-328	
219-328	225-002	401	MANUAL INSPECTION-WASTEWATER	3/19/2003 CLEAR	NF	manual inspections - all ok	
219-327	225-001	401	MANUAL INSPECTION-WASTEWATER	3/19/2003 CLEAR	NF	manual inspections - all ok	
219-326	219-325	401	MANUAL INSPECTION-WASTEWATER	3/20/2003 CLEAR	NF	manual inspections - m/h 219-326 couldn't locate, covered w/ chip seal	
219-325	225-007	401	MANUAL INSPECTION-WASTEWATER	3/20/2003 CLEAR	NF	manual inspections - all ok	
219-324	219-325	401	MANUAL INSPECTION-WASTEWATER	5/8/2001		incl 405; need arrow truck to divert traffic	
219-324	219-325	401	MANUAL INSPECTION-WASTEWATER	8/14/2003 UNB		incl 405; need to set up traffic control & flaggers	
219-273	219-271	401	MANUAL INSPECTION-WASTEWATER	4/2/2001		DAWN WALSH 306-0200 REPORTED WATER COMING OUT OF A M/H IT WAS A PRIVATE DRAIN OUR M/L OK	
219-273	219-271	401	MANUAL INSPECTION-WASTEWATER	10/8/2002 CLEAR	NF	manual inspections - all ok	
219-272	219-278	401	MANUAL INSPECTION-WASTEWATER	2/5/2002 CLEAR	NF	manual inspections - all ok	
219-271	219-267	401	MANUAL INSPECTION-WASTEWATER	2/5/2002 CLEAR	NF	manual inspections - m/h 219-271 - ok	
219-271	219-267	401	MANUAL INSPECTION-WASTEWATER	10/8/2002 CLEAR	NF	manual inspections - all ok	
219-270	219-264	401	MANUAL INSPECTION-WASTEWATER	4/25/1997 MISC		REPORT OF SEWAGE FLOWING DOWN STREET - NO SIGN OF SEWAGE IN STREET, TURNED BACK OVER TO C-11	
219-270	219-264	401	MANUAL INSPECTION-WASTEWATER	2/5/2002 CLEAR	NF	manual inspections - m/h 219-270 - ok	
219-268	219-269	401	MANUAL INSPECTION-WASTEWATER	2/5/2002 CLEAR	NF	manual inspections - all ok	

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
219-268	219-269		401 MANUAL INSPECTION-WASTEWATER		3/29/2002 UNB		this was tv insp was completed the day same day the backup occured please check ims this w/o came out six days after the tv insp was done
219-268	219-269		401 OTHR - 930 N 130TH ST		1/15/2008	HEAVY	
219-266	219-267		401 MANUAL INSPECTION-WASTEWATER		5/27/1998		located and exposed these 2 m/h's and the next one d/s for tv inspection
219-264	219-265		401 MANUAL INSPECTION-WASTEWATER		7/18/2002	NF	manual inspection for caller log about dirty/clogged/overgrown m/h's. - all ok
219-259	219-267		401 MANUAL INSPECTION-WASTEWATER		10/8/2002 CLEAR	NF	manual inspections - all ok
219-257	219-258		401 MANUAL INSPECTION-WASTEWATER		3/19/2003 CLEAR	NF	manual inspections - all ok
219-256	219-259		401 MANUAL INSPECTION-WASTEWATER		10/8/2002 CLEAR	NF	manual inspections - all ok
219-255	219-254		401 MANUAL INSPECTION-WASTEWATER		1/27/2000		check m/h, all seem to be clear
219-255	219-254		401 MANUAL INSPECTION-WASTEWATER		7/26/2002 CLEAR	NF	manual inspections; all ok
219-253	219-254		401 MANUAL INSPECTION-WASTEWATER		1/27/2000		check m/h, all seem to be clear
219-251	219-256		401 MANUAL INSPECTION-WASTEWATER		1/27/2000		m/h 219-251; check m/h, all seem to be clear
219-251	219-256		401 MANUAL INSPECTION-WASTEWATER		7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages. m/h 219-251
219-251	219-256		401 MANUAL INSPECTION-WASTEWATER		10/8/2002 CLEAR	NF	manual inspections - all ok
219-250	219-249		401 MANUAL INSPECTION-WASTEWATER		1/27/2000		check m/h, all seem to be clear
219-250	219-249		401 MANUAL INSPECTION-WASTEWATER		7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.
219-249	219-248		401 MANUAL INSPECTION-WASTEWATER		5/22/2001 DBR		
219-249	219-248		401 MANUAL INSPECTION-WASTEWATER		7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.
219-246	219-328		401 MANUAL INSPECTION-WASTEWATER		1/27/2000		check m/h, all seem to be clear
219-245	219-246		401 MANUAL INSPECTION-WASTEWATER		1/27/2000		check m/h, all seem to be clear
219-244	219-245		401 MANUAL INSPECTION-WASTEWATER		7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.
219-244	219-245		401 MANUAL INSPECTION-WASTEWATER		3/19/2003 MTC		manual inspections - this line here needs jet cleaning
219-243	219-237		401 MANUAL INSPECTION-WASTEWATER		7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages. m/h 219-251
219-242	219-327		401 MANUAL INSPECTION-WASTEWATER		3/27/2000		check traffic circle, the outside ring has not been installed yet u/s 242
219-242	219-327		401 MANUAL INSPECTION-WASTEWATER		5/11/2000		
219-242	219-327		401 MANUAL INSPECTION-WASTEWATER		5/18/2000		
219-242	219-327		401 MANUAL INSPECTION-WASTEWATER		7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.
219-242	219-327		401 MANUAL INSPECTION-WASTEWATER		3/19/2003 CLEAR	NF	manual inspections - all ok
219-242	219-327		401 MANUAL INSPECTION-WASTEWATER		3/19/2003 CLEAR	NF	manual inspections - m/h 242 ok
219-242	219-327		401 MANUAL INSPECTION-WASTEWATER		7/3/2003 VDS	RES	
219-241	219-242		401 MANUAL INSPECTION-WASTEWATER		9/28/2000		check m/h in traffic circle - not put in.
219-241	219-242		401 MANUAL INSPECTION-WASTEWATER		7/25/2002 DBR	LIGHT	manual inspections; minor debris, no blockages.
219-241	219-242		401 MANUAL INSPECTION-WASTEWATER		3/19/2003 CLEAR	NF	manual inspections - all ok
219-240	219-324		401 MANUAL INSPECTION-WASTEWATER		3/25/1999		PICKED UP NO PARKS
219-240	219-324		401 MANUAL INSPECTION-WASTEWATER		5/15/2001		incl 403; car on m/h
219-240	219-324		401 MANUAL INSPECTION-WASTEWATER		5/23/2001 MISC		
219-240	219-324		401 MANUAL INSPECTION-WASTEWATER		6/6/2001 MISC		
219-240	219-324		401 MANUAL INSPECTION-WASTEWATER		3/19/2003 LOC		
219-240	219-324		401 MANUAL INSPECTION-WASTEWATER		3/20/2003 CLEAR	NF	manual inspections - need to locate and expose
219-239	219-383		401 MANUAL INSPECTION-WASTEWATER		3/19/2003 LOC		manual inspections - need to locate and expose
219-238	219-239		401 MANUAL INSPECTION-WASTEWATER		12/21/2001	NF	12748 greenwood ave n; check system in area. our system ok. elevator shaft in apt. is flooding out. c-11 talk to manager at location. he say best plumbing plugged off drain system. - not ours.
219-238	219-239		401 MANUAL INSPECTION-WASTEWATER		3/19/2003 LOC		manual inspections - need to locate and expose

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
219-238	219-239	401	MANUAL INSPECTION-WASTEWATER		3/20/2003 CLEAR	NF	manual inspections - m/h 219-238 ok
219-237	219-241	401	MANUAL INSPECTION-WASTEWATER		3/19/2003 MTC		manual inspections - this line needs jet cleaning
219-179	219-180	401	MANUAL INSPECTION-WASTEWATER		8/2/1999		incl 405; need 2nd crew
219-179	219-180	401	MANUAL INSPECTION-WASTEWATER		9/16/1999		incl 405; need 2nd crew with arrow truck due to traffic
219-179	219-180	401	MANUAL INSPECTION-WASTEWATER		8/13/2001		m/h 219-179 clean off lid - ok now. m/h 180 did not uncover, was in playing field
219-179	219-180	401	MANUAL INSPECTION-WASTEWATER		7/26/2002 MISC		manual inspections; m/h 219-180 needs to be located - see defect slip; m/h 179 ok
219-178	219-179	401	MANUAL INSPECTION-WASTEWATER		8/2/1999		incl 405; need 2nd crew
219-178	219-179	401	MANUAL INSPECTION-WASTEWATER		11/4/1999		incl 405; need second crew and need to have located
219-178	219-179	401	MANUAL INSPECTION-WASTEWATER		2/23/2000		3 m/h's to be raised are not accessible. met jim demonez on site. he says baseball starts 2 weeks & does not want us dingging up grass.
218-227	218-132	401	MANUAL INSPECTION-WASTEWATER		5/14/2001		
218-227	218-132	401	MANUAL INSPECTION-WASTEWATER		9/13/2001		check for traffic setup to do tv insp
218-221	218-138	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-210	218-102	401	MANUAL INSPECTION-WASTEWATER		3/14/2001		all ok at this time
218-207	218-205	401	MANUAL INSPECTION-WASTEWATER		3/19/2001		m/h 218-205 is actually a lamphole
218-206	218-205	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		check m/l, ok
218-205	224-049	401	MANUAL INSPECTION-WASTEWATER		2/9/1998 MHA		RAISE M/H TO GRADE
218-204	218-203	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		check m/l, m/h 218-204 ok
218-204	218-203	401	MANUAL INSPECTION-WASTEWATER		11/7/2001 UNB		INC TV NEED FLAGGERS
218-203	224-046	401	MANUAL INSPECTION-WASTEWATER		4/4/2001		M/H 203 OK
218-202	218-201	401	MANUAL INSPECTION-WASTEWATER		6/2/1998 CVO	NO SHOW	@ 12241 4TH AVE NW
218-201	224-043	401	MANUAL INSPECTION-WASTEWATER		8/18/1998 UNB		NEED LOC AND S/S CARD
218-201	224-043	401	MANUAL INSPECTION-WASTEWATER		3/1/2001 LOC		located m/h 218-201 to be raised
218-200	224-040	401	MANUAL INSPECTION-WASTEWATER		2/1/2001		m/h 218-200
218-198	218-199	401	MANUAL INSPECTION-WASTEWATER		11/20/1997 MISC		CHECK TO PUT CORKS IN M/H
218-198	218-199	401	MANUAL INSPECTION-WASTEWATER		2/1/2001		
218-197	218-199	401	MANUAL INSPECTION-WASTEWATER		4/21/1998 MHA		
218-197	218-199	401	MANUAL INSPECTION-WASTEWATER		7/20/2000		check site for casting re-adjustment
218-197	218-199	401	MANUAL INSPECTION-WASTEWATER		9/27/2000		BREAK OUT CASTING AND RESET ON M/H
218-197	218-199	401	MANUAL INSPECTION-WASTEWATER		2/1/2001		
218-195	218-142	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-194	224-006	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-192	218-191	401	MANUAL INSPECTION-WASTEWATER		8/18/1997 UNB		CREW WAS CALLED OFF TO DYE VOID
218-192	218-191	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-189	218-190	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		m/h ok at this time
218-188	218-226	401	MANUAL INSPECTION-WASTEWATER		5/14/2001		
218-188	218-226	401	MANUAL INSPECTION-WASTEWATER		5/17/2001		needs traffic control b/u truck
218-188	218-226	401	MANUAL INSPECTION-WASTEWATER		4/15/2002		need b/u truck on greenwood
218-187	218-188	401	MANUAL INSPECTION-WASTEWATER		5/6/1998 UNK		
218-187	218-188	401	MANUAL INSPECTION-WASTEWATER		3/16/2001		m/h's ok at this time
218-185	218-184	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		check m/l, ok
218-184	218-182	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		check m/l, ok, m/h 218-182, need to expose
218-183	218-182	401	MANUAL INSPECTION-WASTEWATER		3/18/1997		DYED OUT VOID - NO DYE SHOWED IN M/L
218-183	218-182	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		check m/l, ok
218-183	218-182	401	MANUAL INSPECTION-WASTEWATER		8/3/2001 DBR	LIGHT	manual insp. m/h 183, checked rat bait for customer, wrote out defect slip.
218-182	218-208	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		check m/l, ok, m/h 218-182, need to expose
218-182	218-208	401	MANUAL INSPECTION-WASTEWATER		1/13/2004 UNB		incl 403; see if rod cut 2 to 3 months ago.

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPTTM	SEVERITY	COMMENTS
218-180	218-206	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		check m/l, ok
218-179	218-178	401	MANUAL INSPECTION-WASTEWATER		1/30/2001		check m/l, ok
218-177	218-176	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		m/h 218-177 defect made to raise l/h
218-176	218-202	401	MANUAL INSPECTION-WASTEWATER		11/18/1997		
218-176	218-202	401	MANUAL INSPECTION-WASTEWATER		3/24/1998	MISC	CK FOR TRAFFIC CIRCLE, (1) CASTING RAISED - 2 HRS.
218-176	218-202	401	MANUAL INSPECTION-WASTEWATER		3/24/1998	MISC	
218-176	218-202	401	MANUAL INSPECTION-WASTEWATER		5/21/1998		MH READY TO BE RAISED FOR TRAFFIC CIRCLE.
218-176	218-202	401	MANUAL INSPECTION-WASTEWATER		2/1/2001		
218-175	218-176	401	MANUAL INSPECTION-WASTEWATER		2/1/2001		
218-174	218-198	401	MANUAL INSPECTION-WASTEWATER		11/20/1997	MISC	CHECK TO PUT CORKS IN M/H
218-174	218-198	401	MANUAL INSPECTION-WASTEWATER		4/21/1998	MHA	
218-173	218-174	401	MANUAL INSPECTION-WASTEWATER		2/1/2001		
218-173	218-174	401	MANUAL INSPECTION-WASTEWATER		7/2/2003		C-DEBRIS NEEDS JETTED
218-172	218-196	401	MANUAL INSPECTION-WASTEWATER		11/18/1997		
218-172	218-196	401	MANUAL INSPECTION-WASTEWATER		2/2/2001		
218-171	218-172	401	MANUAL INSPECTION-WASTEWATER		11/18/1997		
218-170	218-171	401	MANUAL INSPECTION-WASTEWATER		2/2/2001		
218-169	224-033	401	MANUAL INSPECTION-WASTEWATER		11/18/1997		
218-169	224-033	401	MANUAL INSPECTION-WASTEWATER		4/21/1998	MHA	
218-169	224-033	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		chip seal; need to locate and expose u/s & d/s
218-169	224-033	401	MANUAL INSPECTION-WASTEWATER		3/1/2001	LOC	located m/h 218-169 to be raised
218-168	218-169	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-167	218-168	401	MANUAL INSPECTION-WASTEWATER		4/21/1998	MHA	
218-167	218-168	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		u/s m/h chip seal, need locate & expose
218-167	218-168	401	MANUAL INSPECTION-WASTEWATER		3/1/2001	LOC	located m/h 218-167 to be raised
218-166	218-165	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		m/h ok at this time
218-164	218-163	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		m/h ok at this time
218-162	218-163	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		m/h ok at this time
218-161	224-026	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-161	224-026	401	MANUAL INSPECTION-WASTEWATER		5/25/2001	CVO	12522 9th ave nw; check out void; trk 127 & 133 will dye and tv
218-160	218-161	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		
218-159	218-160	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-157	218-156	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-157	218-156	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		m/h 218-157 ok but need more rat bait
218-157	218-156	401	MANUAL INSPECTION-WASTEWATER		9/18/2002	UNB	m/h ok at this time
218-157	218-156	401	MANUAL INSPECTION-WASTEWATER		12/5/2002		INC TV, DEBRIS IN LINE, CLEAN & RE-TV
218-157	218-156	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		LOCATE IN ALLEY FOR ACCESS
218-156	218-155	401	MANUAL INSPECTION-WASTEWATER		12/14/2001	UNB	m/h ok at this time
218-156	218-155	401	MANUAL INSPECTION-WASTEWATER		3/28/2001		incl 405; only got 61', kept hitting something.
218-154	218-155	401	MANUAL INSPECTION-WASTEWATER				m/h 218-154 buried more than 7" in private driveway, dead end m/l.
218-152	218-150	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-150	218-146	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok; m/h 218-150
218-149	218-146	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		m/h ok at this time
218-148	218-147	401	MANUAL INSPECTION-WASTEWATER		3/15/2001		m/h ok at this time
218-145	218-144	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-145	218-144	401	MANUAL INSPECTION-WASTEWATER		5/8/2001		insp. system for defects
218-144	218-143	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-142	218-143	401	MANUAL INSPECTION-WASTEWATER		8/20/1997		CHECKED LOCATION
218-141	218-142	401	MANUAL INSPECTION-WASTEWATER		2/14/2001		ok
218-141	218-142	401	MANUAL INSPECTION-WASTEWATER		3/27/2001		m/h's ok at this time

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTM	PROBLEM FOUND	SEVERITY	COMMENTS
218-140	218-141	401	MANUAL INSPECTION-WASTEWATER	2/14/2001		ok	
218-139	218-140	401	MANUAL INSPECTION-WASTEWATER	2/14/2001		ok	
218-139	218-140	401	MANUAL INSPECTION-WASTEWATER	3/27/2001		m/h's ok at this time	
218-138	218-139	401	MANUAL INSPECTION-WASTEWATER	3/27/2001		m/h's ok at this time	
218-137	218-136	401	MANUAL INSPECTION-WASTEWATER	2/14/2001		ok	
218-137	218-136	401	MANUAL INSPECTION-WASTEWATER	3/27/2001		m/h's ok at this time	
218-136	218-195	401	MANUAL INSPECTION-WASTEWATER	3/27/2001		m/h's ok at this time	
218-135	218-136	401	MANUAL INSPECTION-WASTEWATER	2/14/2001		ok	
218-134	218-135	401	MANUAL INSPECTION-WASTEWATER	2/14/2001		approx 6" metal pipe @ u/s m/h, need to do entry to remove in channel	
218-134	218-135	401	MANUAL INSPECTION-WASTEWATER	3/27/2001		m/h's ok at this time	
218-133	218-094	401	MANUAL INSPECTION-WASTEWATER	5/15/2001		incl 403; need b/u truck	
218-133	218-094	401	MANUAL INSPECTION-WASTEWATER	5/22/2001	UNB		
218-132	218-133	401	MANUAL INSPECTION-WASTEWATER	3/16/2001		jet clean, debris in line, defect slip turned in.	
218-131	218-130	401	MANUAL INSPECTION-WASTEWATER	1/30/2001		two location needs to check by tv, for lampholes m/h 218-186,131	
218-130	218-128	401	MANUAL INSPECTION-WASTEWATER	1/30/2001		map 218 needs to be updated, there is a new m/h between 128 & 130	
218-130	218-128	401	MANUAL INSPECTION-WASTEWATER	1/30/2001		check m/l, ok	
218-129	218-128	401	MANUAL INSPECTION-WASTEWATER	1/30/2001	DBR	jet clean	
218-129	218-128	401	MANUAL INSPECTION-WASTEWATER	2/1/2001		d/s m/h is in the c/l of n. 130th. u/s is a lamp hole. this job needs flaggers	
218-128	218-183	401	MANUAL INSPECTION-WASTEWATER	10/10/2000		12759 NW 130TH ST: LOCATED M/H PAINTED ON GROUND, NEEDS TO BE RAISED & EXPOSED. NEED TRAFFIC CONTROL.	
218-127	218-126	401	MANUAL INSPECTION-WASTEWATER	1/30/2001	LOC	locate lamphole, dead end m/h 218-217	
218-126	218-181	401	MANUAL INSPECTION-WASTEWATER	1/30/2001		check m/l, ok	
218-125	218-126	401	MANUAL INSPECTION-WASTEWATER	6/15/2000		incl 405; m/h are buried under asphalt m/h 126	
218-125	218-126	401	MANUAL INSPECTION-WASTEWATER	7/25/2000		this is a l/h, no mtce. needed	
218-125	218-126	401	MANUAL INSPECTION-WASTEWATER	1/30/2001	LOC	locate lamphole, dead end m/h 218-125	
218-125	218-126	401	MANUAL INSPECTION-WASTEWATER	5/31/2002		seatran said m/h 218-126 was blamed for damaging someones car - casting has 6-8" chip in rim & lid isn't tall enough (replace casting)	
218-125	218-126	401	MANUAL INSPECTION-WASTEWATER	6/14/2002		look for access to do sevral runs in this area due to heavy traffic congestion	
218-125	218-126	401	MANUAL INSPECTION-WASTEWATER	6/14/2002		flaggers needed to do this tv insp	
218-125	218-126	401	MANUAL INSPECTION-WASTEWATER	7/2/2002		need flaggers to assist due to high traffic area.	
218-123	218-121	401	MANUAL INSPECTION-WASTEWATER	1/30/2001		check m/l, ok	
218-122	218-121	401	MANUAL INSPECTION-WASTEWATER	10/5/2000		NW 130TH ST & 2ND AVE NW: LOCATE M/H - BURIED UNDER ASPHALT	
218-122	218-121	401	MANUAL INSPECTION-WASTEWATER	10/10/2000		NW 130TH BTWN 2ND & 3RD AVE NW: LOCATED M/H NEEDS TO BE RAISED, BURIED UNDER ASPHALT. NEED TRAFFIC CONTROL	
218-122	218-121	401	MANUAL INSPECTION-WASTEWATER	5/17/2001		needs flaggers	
218-122	218-121	401	MANUAL INSPECTION-WASTEWATER	9/13/2001		check for traffic setup to do tv insp	
218-120	218-119	401	MANUAL INSPECTION-WASTEWATER	11/18/1997			
218-120	218-119	401	MANUAL INSPECTION-WASTEWATER	2/1/2001			
218-119	218-175	401	MANUAL INSPECTION-WASTEWATER	11/18/1997			
218-118	218-117	401	MANUAL INSPECTION-WASTEWATER	2/1/2001			
218-116	218-115	401	MANUAL INSPECTION-WASTEWATER	11/20/1997	MISC	CHECK TO PUT CORKS IN M/H	
218-116	218-115	401	MANUAL INSPECTION-WASTEWATER	2/2/2001			

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	PROBLEM FOUND	COMPDMM	SEVERITY	COMMENTS
218-115	218-170	401	MANUAL INSPECTION-WASTEWATER	11/20/1997 MISC			CHECK TO PUT CORKS IN M/H
218-115	218-170	401	MANUAL INSPECTION-WASTEWATER	2/14/2001			ok; m/h 218-115
218-114	218-113	401	MANUAL INSPECTION-WASTEWATER	11/18/1997			
218-114	218-113	401	MANUAL INSPECTION-WASTEWATER	2/14/2001			ok
218-113	218-167	401	MANUAL INSPECTION-WASTEWATER	11/18/1997			
218-113	218-167	401	MANUAL INSPECTION-WASTEWATER	2/14/2001			ok
218-111	218-110	401	MANUAL INSPECTION-WASTEWATER	2/14/2001			ok
218-110	218-109	401	MANUAL INSPECTION-WASTEWATER	2/14/2001			ok
218-108	218-107	401	MANUAL INSPECTION-WASTEWATER	2/14/2001			m/h 218-108 needs to be located & exposed
218-108	218-107	401	MANUAL INSPECTION-WASTEWATER	11/26/2001			needs jet
218-108	218-107	401	MANUAL INSPECTION-WASTEWATER	11/14/2002			m/h 218-108 is a l/h.
218-107	218-106	401	MANUAL INSPECTION-WASTEWATER	2/14/2001			ok
218-105	218-104	401	MANUAL INSPECTION-WASTEWATER	4/21/1998 MHA			INCL 402; CALLED TO ANOTHER JOB.
218-105	218-104	401	MANUAL INSPECTION-WASTEWATER	3/10/1999			all ok at this time
218-104	218-103	401	MANUAL INSPECTION-WASTEWATER	3/14/2001			all ok at this time
218-101	218-100	401	MANUAL INSPECTION-WASTEWATER	3/14/2001			m/h 218-098; ok at this time
218-098	218-145	401	MANUAL INSPECTION-WASTEWATER	3/15/2001			
225-168	225-170	400	NEW SERVICE CONNECTION	8/31/1999			10744 greenwood ave n; 6 on 12 core tap, o'neil plumbing, ken inspec.
225-062	225-070	400	NEW SERVICE CONNECTION	2/4/1998			11508 GREENWOOD AV. N. 6' ON 12" STORM CORECUT
225-048	225-058	400	NEW SERVICE CONNECTION	8/18/1999			11520 STONE AVE N; 8 ON 24" CORE TAP, CONC. FOR CONTRACTOR
225-032	225-042	400	NEW SERVICE CONNECTION	1/22/2004			DPD#6027925, 1/22/04, 1:00PM, 6 ON 8" SEWER, 712 N 120TH ST, CONTACT IS JERRY (LYNNWOOD SEPTIC), 206-786-1335.
225-032	225-042	400	NEW SERVICE CONNECTION	9/12/2005			DPD# 6071433, 9/12/05, 8:00AM, 6X8 SEWER, EASEMENT E/O 12026 NORTH PARK AV N, CONTACT IS ERIC (TORSET EXCAVATING/LYNNWOOD SEPTIC), 206-786-1326□
							□ LYNNWOOD SEPTIC/TORSET EXCAVATION 435-487-6806□
							1030 AVE D SUITE# 2□ SNOHOMISH, WA 98290 RS0011□
							□ 9-12
224-254	224-253	400	NEW SERVICE CONNECTION 224-254 224-253	12/10/2007			
224-246	224-247	400	NEW SERVICE CONNECTION	11/15/2001			11033 greenwood ave n; core tap 6 on 8" conc. for torset const.
224-200	224-238	400	NEW SERVICE CONNECTION 224-200 224-238	9/25/2006			
224-171	224-165	400	NEW SERVICE CONNECTION	1/5/2005			
224-126	224-125	400	NEW SERVICE CONNECTION	9/15/1998 MISC			Newservice connection for northlake const.
219-242	219-327	400	NEW SERVICE CONNECTION 219-242 219-327	3/1/2007			
218-171	218-172	400	NEW SERVICE CONNECTION	11/30/2004			DPD#6040468, 11/30/04, 8:00AM, 6 ON 8" SEWER, 12546 7TH AVE NW, CONTACT IS RICK (TORSET EX.), 425-471-0341.
218-131	218-130	400	NEW SERVICE CONNECTION 218-131 218-130	8/7/2007			
224-048	224-106	470	WASTEWATER REHAB (SHALLOW) 224-048 224-106				Outstanding Work Order
224-048	224-106	470	WASTEWATER REHAB (SHALLOW) 224-048 224-106				Outstanding Work Order

SPU Operations and Maintenance

UNITID	UNITID2	ACTCODE	ACTDESC	COMPDTTM	PROBLEM FOUND	SEVERITY	COMMENTS
224-309	224-310	470	WASTEWATER REHAB (SHALLOW) 224-309 224-310				Outstanding Work Order
224-309	224-310	470	WASTEWATER REHAB (SHALLOW) 224-309 224-310				Outstanding Work Order
224-312	224-313	471	WASTEWATER REHAB (DEEP) 224-312 224-313				Outstanding Work Order
224-312	224-313	471	WASTEWATER REHAB (DEEP) 224-312 224-313				Outstanding Work Order
224-381	224-315	471	WASTEWATER REHAB (DEEP) 224-381 224-315				Outstanding Work Order
225-036	225-045	402	HYDROCUT SAN/COMB MAINLINE - 225-036 225-045				Outstanding Work Order
225-180	225-183	476	CNTRCTR - WW REHAB DIG SPOT - 225-180 225-183				Outstanding Work Order

APPENDIX B

SPU CCTV

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
218-070	218-096	5/1/2001	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
218-070	218-096	5/1/2001	L	L	A	LEFT ACTIVE		
218-070	218-096	5/1/2001	L	L	D	RIGHT ACTIVE		
218-070	218-096	5/1/2001	L	L	D	RIGHT ACTIVE		
218-070	218-096	5/1/2001	L	L	D	RIGHT ACTIVE		
218-070	218-096	05/16/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	21% - 30%	<=30%
218-070	218-096	05/16/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
218-070	218-096	05/16/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
218-070	218-096	05/16/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
218-070	218-096	05/16/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
218-070	218-096	05/16/2005	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
218-070	218-096	05/16/2005	SD-JOINT	MS	JOM	JOINT OFFSET MEDIUM =<1.5	EXCELLENT-MINOR DEFECTS	1
218-070	218-096	05/16/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
218-070	218-096	05/16/2005	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
218-070	218-096	05/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	05/16/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
218-070	218-096	06/15/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	SD-CRACK	RC	CC	CRACK CIRCUMFERENTIAL	EXCELLENT-MINOR DEFECTS	1
218-070	218-096	06/15/2005	SD-CRACK	RC	CL	CRACK LONGITUDINAL	GOOD DEFECTS-NOT DETERIORATING	2
218-070	218-096	06/15/2005	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
218-070	218-096	06/15/2005	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
218-070	218-096	06/15/2005	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	1% - 10%	<=10%
218-070	218-096	06/15/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
218-070	218-096	06/15/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
218-070	218-096	06/15/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
218-070	218-096	06/15/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
218-070	218-096	06/15/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
218-070	218-096	06/15/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
218-070	218-096	06/15/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
218-070	218-096	06/15/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
218-070	218-096	06/15/2005	OM-INFIL	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
218-070	218-096	06/15/2005	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
218-070	218-096	06/15/2005	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
218-070	218-096	06/15/2005	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
218-070	218-096	06/15/2005	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
218-070	218-096	06/15/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
218-070	218-096	06/15/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-070	218-096	06/15/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
218-070	218-096	06/15/2005	CF-TAP	TB	TSI	TAP SADDLE INTRUDING	1% - 10%	<=10%
218-096	218-097	3/19/1998	D	D	7	DEBRIS-HEAVY, REMOVE TODAY	ONLY. CALLED FOR JET	
218-096	218-097	3/19/1998	D	D	7	DEBRIS-HEAVY, REMOVE TODAY	TO UNKNOWN.	
218-096	218-097	5/1/2001	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
218-096	218-097	5/1/2001	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
218-096	218-097	5/1/2001	D	D	N	GREASE-MEDIUM, REMOVE 1 YEAR		
218-096	218-097	5/1/2001	R	R	I	HEAVY, CUT 1 MONTH		
218-096	218-097	5/1/2001	R	R	I	HEAVY, CUT 1 MONTH		
218-096	218-097	5/1/2001	R	R	I	HEAVY, CUT 1 MONTH		
218-096	218-097	5/1/2001	R	R	I	HEAVY, CUT 1 MONTH		
218-096	218-097	5/1/2001	MJ	MS	A	LIGHT OFFSET		
218-096	218-097	5/1/2001	R	R	H	MEDIUM, CUT 1 YEAR	JOINT	
218-096	218-097	5/1/2001	R	R	H	MEDIUM, CUT 1 YEAR	JOINT	
218-096	218-097	5/1/2001	R	R	H	MEDIUM, CUT 1 YEAR	JOINT	
218-096	218-097	5/1/2001	R	R	H	MEDIUM, CUT 1 YEAR		
218-096	218-097	5/1/2001	R	R	H	MEDIUM, CUT 1 YEAR		
218-096	218-097	5/1/2001	R	R	H	MEDIUM, CUT 1 YEAR		
218-096	218-097	5/1/2001	L	L	F	RIGHT UNKNOWN		
218-096	218-097	06/13/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-096	218-097	06/13/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-096	218-097	06/13/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
218-096	218-097	06/13/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
218-096	218-097	06/13/2005	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
218-096	218-097	06/13/2005	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
218-096	218-097	06/13/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
218-096	218-097	06/13/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
218-096	218-097	06/13/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
218-096	218-097	08/02/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-096	218-097	08/02/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-096	218-097	08/02/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
218-096	218-097	08/02/2005	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
218-096	218-097	08/02/2005	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
218-096	218-097	08/02/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
218-096	218-097	08/02/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
218-096	218-097	08/02/2005	OM-RTSJ	R	RB	ROOTS BALL AT JOINT	POOR-SEVERE DEFECTS	4

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
218-096	218-097	08/02/2005	OM-RTSJT	R	RB	ROOTS BALL AT JOINT	POOR-SEVERE DEFECTS	4
218-096	218-097	08/02/2005	OM-RTSJT	R	RB	ROOTS BALL AT JOINT	POOR-SEVERE DEFECTS	4
218-096	218-097	08/02/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
218-096	218-097	08/02/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
218-096	218-097	08/02/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-096	218-097	08/03/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-096	218-097	08/03/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-096	218-097	08/03/2005	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	21% - 30%	<=30%
218-096	218-097	08/03/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
218-096	218-097	08/03/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
218-096	218-097	08/03/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
218-096	218-097	08/03/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
218-096	218-097	08/03/2005	OM-ROOTS	R	RML	ROOTS MEDIUM LATERAL	FAIR-MODERATE DEFECTS	3
218-096	218-097	08/03/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
218-096	218-097	08/03/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-096	218-097	08/03/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
218-097	218-098	3/19/1998	D	D	C	DEBRIS - HEAVY	TO TOTAL- REMOVE DEBRIS	
218-108	218-107	12/19/2001	DS	DS	Z	AT MAINTENANCE HOLE NUMBER	218-107	
218-108	218-107	12/19/2001	BJ	MS	J	BRK JT - LIGHT		
218-108	218-107	12/19/2001	CS	CS	K	BROKEN, REPAIR		
218-108	218-107	12/19/2001	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
218-108	218-107	12/19/2001	I	I	J	EXFILTRATION LIGHT	needs repair	
218-108	218-107	12/19/2001	OS	OS	1	PIPE TYPE CHANGE	cange size	
218-108	218-107	12/19/2001	L	L	D	RIGHT ACTIVE		
218-108	218-107	12/19/2001	BJ	BJ	C	SEVERE OFFSET		
218-108	218-107	10/3/2002	R	R	D	LIGHT, TV 10 YEARS	AT STUB	
218-108	218-107	10/3/2002	D	D	V	MIN DEP-LIGHT, TV 10 YEARS	IN STUB	
218-108	218-107	10/3/2002	DS	DS	1	PIPE TYPE CHANGE	FROM 8" TO 6"	
218-108	218-107	10/3/2002	L	L	D	RIGHT ACTIVE		
218-108	218-107	10/3/2002	L	L	E	RIGHT BISCUIT		
218-109	218-106	6/2/2000	D	D	Z	MIN DEP-HEAVY, REMOVE 6 MONTHS	at m/h	
218-109	218-106	6/2/2000	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR		
218-109	218-106	6/2/2000	I	I	A	SEEPAGE AT JOINT		
218-126	218-181	2/7/2001	L	L	P	HYDRANT BLEEDER		
218-126	218-181	2/7/2001	L	L	P	HYDRANT BLEEDER		
218-132	218-133	12/12/2002	D	D	J	GREASE-LIGHT, REMOVE 5 YEARS	bleeder pipe is out n/r	
218-132	218-133	12/12/2002	L	L	A	LEFT ACTIVE		
218-132	218-133	12/12/2002	L	L	B	LEFT BISCUIT		
218-132	218-133	12/12/2002	L	L	B	LEFT BISCUIT		
218-132	218-133	12/12/2002	L	L	D	RIGHT ACTIVE		
218-136	218-195	12/31/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-136	218-195	12/31/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-136	218-195	12/31/2007	OM-DEPI	DP	DNF	DEPOSITS INGRESS FINES	1% - 10%	<=10%
218-136	218-195	12/31/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
218-136	218-195	12/31/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-136	218-195	12/31/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-136	218-195	12/31/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-136	218-195	12/31/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-142	218-143	8/20/1997	L	L	A	LEFT ACTIVE	SHOULD BE CONNECTED TO 12612 BLAKELEY PL NW LOOKS O.K.	
218-142	218-143	8/20/1997	L	L	D	RIGHT ACTIVE		
218-142	218-143	11/19/1997	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR	TO 182'	
218-142	218-143	11/19/1997	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR	TO 71'	

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
218-142	218-143	12/31/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-142	218-143	12/31/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-142	218-143	12/31/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
218-142	218-143	12/31/2007	SD-SRFCH	M	SRIC	SURF ROUGHNESS INCREASE CHEM	EXCELLENT-MINOR DEFECTS	1
218-142	218-143	12/31/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-143	218-192	8/19/1997	A	A	C	BEGIN 1/2 PIPE WATER	M/L WAS STARTING TO CHOKE OFF WITH GREASE AT THIS POINT	
218-143	218-192	8/19/1997	A	A	C	BEGIN 1/2 PIPE WATER	M/L WAS STARTING TO CHOKE OFF WITH GREASE AT THIS POINT	
218-143	218-192	8/19/1997	D	D	H	GREASE-HEAVY	M/L WAS STARTING TO CHOKE OFF WITH GREASE AT THIS POINT	
218-143	218-192	8/19/1997	D	D	L	GREASE-LIGHT	TOTAL M/L STILL HAS LIGHT GREASE IN IT BUT FLOWING. PUT ON CYCLE.	
218-143	218-192	8/19/1997	D	D	L	GREASE-LIGHT	TO 177'	
218-144	218-143	8/20/1997	D	D	L	GREASE-LIGHT	TO TOTAL	
218-144	218-143	8/20/1997	I	I	B	LIGHT (0-1 GPM)		
218-144	218-143	8/20/1997	A	A	L	SAG IN LINE	TO 95'	
218-144	218-143	8/20/1997	A	A	L	SAG IN LINE	TO 95'	
218-144	218-143	9/8/2004	A	A	K	LINE UP & DOWN		
218-144	218-143	9/8/2004	A	A	K	LINE UP & DOWN		
218-144	218-143	9/8/2004	D	D	V	MIN DEP-LIGHT, TV 10 YEARS	LIGHT MIN DEPS THRUOUT PIPE	
218-144	218-143	9/8/2004	L	L	D	RIGHT ACTIVE	MED MIN DEPS	
218-145	218-144	8/20/1997	D	D	L	GREASE-LIGHT	TO TOTAL	
218-145	218-144	8/20/1997	I	I	B	LIGHT (0-1 GPM)		
218-145	218-144	8/20/1997	D	D	E	MIN DEP-MEDIUM		
218-145	218-144	8/20/1997	L	L	J	PTG 0-1"		
218-145	218-144	8/20/1997	L	L	J	PTG 0-1"	LEFT	
218-145	218-144	9/8/2004	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS		
218-145	218-144	9/8/2004	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS		
218-145	218-144	9/8/2004	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS		
218-145	218-144	9/8/2004	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
218-145	218-144	9/8/2004	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
218-145	218-144	9/8/2004	L	L	C	LEFT UNKNOWN	HEAVY MIN DEPS	
218-145	218-144	9/8/2004	L	L	K	PTG 1-2"	L/S ACTIVE GRAFT	
218-145	218-144	9/8/2004	L	L	K	PTG 1-2"	L/S ACTIVE GRAFT	
218-145	218-144	9/8/2004	L	L	F	RIGHT UNKNOWN	HEAVY MIN DEPS	
218-145	218-144	9/8/2004	I	I	A	SEEPAGE AT JOINT		
218-148	218-147	7/25/2000	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
218-148	218-147	7/25/2000	L	L	A	LEFT ACTIVE	HAIRLINE CRACK ON WYE....NO REPAIR	
218-148	218-147	7/25/2000	D	D	V	MIN DEP-LIGHT, TV 10 YEARS		
218-148	218-147	7/25/2000	A	A	H	PIPE CURVES TO LEFT		
218-148	218-147	7/25/2000	A	A	H	PIPE CURVES TO LEFT		
218-148	218-147	7/25/2000	A	A	G	PIPE CURVES TO RIGHT		
218-148	218-147	7/25/2000	A	A	G	PIPE CURVES TO RIGHT		
218-148	218-147	7/25/2000	L	L	D	RIGHT ACTIVE	LIGHT MIN DEPS	
218-148	218-147	7/25/2000	L	L	D	RIGHT ACTIVE	LIGHT MIN DEPS	
218-149	218-146	10/11/2000	MJ	MS	J	BRK JT - LIGHT	DEFLECTION LEFT	
218-149	218-146	10/11/2000	D	D	I	GREASE-LIGHT, TV 5 YEARS		
218-149	218-146	10/11/2000	MJ	MS	A	LIGHT OFFSET	SLIGHT OFFSET AT JOINT	
218-150	218-146	12/5/2002	D	D	2	DEBRIS-LIGHT, TV 10 YEARS		
218-150	218-146	12/5/2002	D	D	2	DEBRIS-LIGHT, TV 10 YEARS		
218-150	218-146	12/5/2002	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
218-150	218-146	12/5/2002	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR		

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
218-150	218-146	12/5/2002	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR		
218-150	218-146	12/5/2002	A	A	L	SAG IN LINE	LIGHT	
218-150	218-146	12/5/2002	A	A	L	SAG IN LINE	LIGHT	
218-150	218-146	12/5/2002	A	A	L	SAG IN LINE	LIGHT	
218-150	218-146	12/5/2002	A	A	L	SAG IN LINE	LIGHT	
218-152	218-150	12/6/2002	D	D	2	DEBRIS-LIGHT, TV 10 YEARS		
218-152	218-150	12/6/2002	L	L	A	LEFT ACTIVE	1 min dep in stub	
218-152	218-150	12/6/2002	L	L	A	LEFT ACTIVE	med min dep	
218-152	218-150	12/6/2002	I	I	C	MEDIUM (1-5 GPM) REPAIR	med min dep	
218-152	218-150	12/6/2002	MJ	MS	B	MEDIUM OFFSET	1 min dep	
218-152	218-150	12/6/2002	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR	1 seep 0 to 1 gpm	
218-152	218-150	12/6/2002	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR	invert	
218-152	218-150	12/6/2002	A	A	H	PIPE CURVES TO LEFT	med deflection	
218-152	218-150	12/6/2002	A	A	H	PIPE CURVES TO LEFT	light	
218-152	218-150	12/6/2002	A	A	H	PIPE CURVES TO LEFT	med deflection	
218-152	218-150	12/6/2002	A	A	H	PIPE CURVES TO LEFT	light	
218-152	218-150	12/6/2002	A	A	G	PIPE CURVES TO RIGHT	deflection	
218-152	218-150	12/6/2002	A	A	G	PIPE CURVES TO RIGHT	deflection	
218-152	218-150	12/6/2002	A	A	G	PIPE CURVES TO RIGHT	deflection	
218-152	218-150	12/6/2002	L	L	D	RIGHT ACTIVE	1 min dep in stub	
218-152	218-150	12/6/2002	L	L	D	RIGHT ACTIVE	hvy min dep in stubb med prot in m/l	
218-152	218-150	12/6/2002	L	L	D	RIGHT ACTIVE	med min dep in s/s	
218-152	218-150	12/6/2002	L	L	D	RIGHT ACTIVE	1 min dep in stub	
218-152	218-150	12/6/2002	A	A	L	SAG IN LINE	1 min dep in stub	
218-152	218-150	12/6/2002	A	A	L	SAG IN LINE	light	
218-152	218-150	12/6/2002	A	A	L	SAG IN LINE	light	
218-152	218-150	12/6/2002	A	A	L	SAG IN LINE	light	
218-152	218-150	12/6/2002	A	A	L	SAG IN LINE	light	
218-152	218-150	12/6/2002	MJ	MS	G	WD JT 2" - 3"	1 side	
218-152	218-150	12/6/2002	MJ	MS	H	WD JT 3" - 4"	1 seep at jt	
218-153	218-152	11/1/2002	L	L	A	LEFT ACTIVE	HEAVY MIN DEP	
218-153	218-152	12/6/2002	DS	DS	1	PIPE TYPE CHANGE	L SIDE AT JT NO INFIL	
218-153	218-152	12/6/2002	I	I	A	SEEPAGE AT JOINT	L MIN DEP	
218-155	218-150	12/5/2002	D	D	2	DEBRIS-LIGHT, TV 10 YEARS	104,107,116,134,151,163	
218-155	218-150	12/5/2002	D	D	K	GREASE-LIGHT, REMOVE 3 YEARS	invert	
218-155	218-150	12/5/2002	I	I	B	LIGHT (0-1 GPM)		
218-155	218-150	12/5/2002	MJ	MS	B	MEDIUM OFFSET	OUTSIDE DROP 1ST PIPE OFFSET 2'	
218-155	218-150	12/5/2002	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR		
218-155	218-150	12/5/2002	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR		
218-155	218-150	12/5/2002	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR	77 86 154 157	
218-155	218-150	12/5/2002	I	I	A	SEEPAGE AT JOINT		
218-155	218-150	12/5/2002	I	I	A	SEEPAGE AT JOINT	1 min dep	
218-156	218-155	12/9/2002	L	L	A	LEFT ACTIVE	MED MIN DEP	
218-156	218-155	12/9/2002	L	L	A	LEFT ACTIVE	L MIN DEP	
218-156	218-155	12/9/2002	L	L	A	LEFT ACTIVE	1 min dep in stub	
218-156	218-155	12/9/2002	L	L	A	LEFT ACTIVE	hvy min dep in stub	
218-156	218-155	12/9/2002	L	L	A	LEFT ACTIVE	1 seep in stub	
218-156	218-155	12/9/2002	L	L	A	LEFT ACTIVE	1 min dep in stub & s/s	

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
218-156	218-155	12/9/2002	I	I	B	LIGHT (0-1 GPM)	AT STUB 1ST PIPE OFF STUB	
218-156	218-155	12/9/2002	I	I	B	LIGHT (0-1 GPM)		
218-156	218-155	12/9/2002	D	D	X	MIN DEP-LIGHT, REMOVE 3 YEARS		
218-156	218-155	12/9/2002	D	D	X	MIN DEP-LIGHT, REMOVE 3 YEARS		
218-156	218-155	12/9/2002	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR	INVERT	
218-161	224-026	5/25/2001	D	D	7	DEBRIS-HEAVY, REMOVE TODAY		
218-161	224-026	5/25/2001	D	D	1	MIN DEP-HEAVY, REMOVE TODAY		
218-161	224-026	5/25/2001	D	D	1	MIN DEP-HEAVY, REMOVE TODAY		
218-161	224-026	5/25/2001	D	D	X	MIN DEP-LIGHT, REMOVE 3 YEARS		
218-161	224-026	5/25/2001	D	D	Y	MIN DEP-MEDIUM, REMOVE 1 YEAR		
218-161	224-026	5/25/2001	L	L	D	RIGHT ACTIVE	min dep	
218-161	224-026	5/25/2001	I	I	A	SEEPAGE AT JOINT		
218-161	224-026	5/25/2001	CS	CS	H	SML PIECE PIPE MSSNG	Bell side of joint, right side. No maintenance	
218-163	218-160	6/2/2000	R	R	H	MEDIUM, CUT 1 YEAR		
218-165	218-164	12/2/2003	L	L	Z	CONNECTION BROKEN-REP 5 YEARS	Right, active. See photo	
218-165	218-164	12/2/2003	R	R	G	LIGHT, CUT 3 YEARS		
218-165	218-164	12/2/2003	R	R	G	LIGHT, CUT 3 YEARS		
218-165	218-164	12/2/2003	R	R	D	LIGHT, TV 10 YEARS		
218-171	218-172	9/6/2002	R	R	D	LIGHT, TV 10 YEARS	SEE PHOTO #7350	
218-171	218-172	9/6/2002	R	R	E	LIGHT, TV 5 YEARS		
218-171	218-172	9/6/2002	R	R	E	LIGHT, TV 5 YEARS		
218-172	218-196	9/6/2002	L	L	A	LEFT ACTIVE	s/s broken see tape wye ok as best as we can see	
218-172	218-196	9/6/2002	L	L	K	PTG 1-2"	r/s active	
218-172	218-196	9/6/2002	L	L	D	RIGHT ACTIVE	small hole where s/s and wye meet	
218-173	218-174	7/7/2003	DS	DS	A	PIPE DET LIGHT-POINT	on top of pipe	
218-173	218-174	7/7/2003	CS	CS	A	PIPE DET LIGHT-POINT		
218-173	218-174	7/7/2003	A	A	L	SAG IN LINE		
218-173	218-174	7/7/2003	A	A	L	SAG IN LINE	@ wye	
218-173	218-174	7/7/2003	DS	DS	H	SML PIECE PIPE MSSNG		
218-176	218-202	5/3/2000	L	L	A	LEFT ACTIVE	MED. DEBRIS AT BISCUIT.	
218-176	218-202	5/3/2000	L	L	A	LEFT ACTIVE	slight offset.gravel showing SEE PHOTO #7181	
218-176	218-202	5/3/2000	L	L	D	RIGHT ACTIVE	med. to light roots. slight offset at stubb.	
218-176	218-202	5/3/2000	L	L	D	RIGHT ACTIVE		
218-186	218-185	9/18/2002	A	A	M	BACKFALL	1 x 1/2 INCH SAG SEE PHOTO #7348	
218-186	218-185	9/18/2002	A	A	M	BACKFALL	1 x 1/2 INCH SAG SEE PHOTO #7348	
218-186	218-185	9/18/2002	D	D	2	DEBRIS-LIGHT, TV 10 YEARS		
218-186	218-185	9/18/2002	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
218-186	218-185	9/18/2002	L	L	A	LEFT ACTIVE		
218-186	218-185	9/18/2002	L	L	E	RIGHT BISCUIT		
218-188	218-226	4/24/2002	DS	DS	R	AGGREGATE SHOWING IN PIPE		
218-188	218-226	4/24/2002	DS	DS	R	AGGREGATE SHOWING IN PIPE		
218-188	218-226	4/24/2002	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS		
218-188	218-226	4/24/2002	A	A	K	LINE UP & DOWN		
218-188	218-226	4/24/2002	A	A	K	LINE UP & DOWN		
218-192	218-191	8/19/1997	D	D	B	DEBRIS - MEDIUM		
218-192	218-191	8/19/1997	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
218-192	218-191	8/19/1997	D	D	J	GREASE-LIGHT, REMOVE 5 YEARS	TO 138'	
218-192	218-191	8/19/1997	I	I	B	LIGHT (0-1 GPM)		
218-195	218-142	12/31/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-195	218-142	12/31/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
218-195	218-142	12/31/2008	OM-DEPI	DP	DNF	DEPOSITS INGRESS FINES	1% - 10%	<=10%
218-195	218-142	12/31/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
218-195	218-142	12/31/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
218-195	218-142	12/31/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
218-195	218-142	12/31/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-195	218-142	12/31/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-195	218-142	12/31/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-195	218-142	12/31/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-195	218-142	12/31/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-195	218-142	12/31/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
218-201	224-043	7/21/1998	L	L	K	PTG 1-2"	CONN L	
218-201	224-043	7/21/1998	L	L	D	RIGHT ACTIVE	2ND LENGTH IN S/S SLIGTLY SEP	
218-204	218-203	4/26/2002	DS	DS	R	AGGREGATE SHOWING IN PIPE		
218-204	218-203	4/26/2002	L	L	A	LEFT ACTIVE	MED MIN DEP	
218-204	218-203	4/26/2002	L	L	B	LEFT BISCUIT	MED MIN DEP	
218-204	218-203	4/26/2002	A	A	K	LINE UP & DOWN		
218-204	218-203	4/26/2002	A	A	K	LINE UP & DOWN		
218-204	218-203	4/26/2002	D	D	W	MIN DEP-LIGHT, TV 5 YEARS	MIN DEP	
218-204	218-203	4/26/2002	D	D	W	MIN DEP-LIGHT, TV 5 YEARS		
218-204	218-203	4/26/2002	D	D	W	MIN DEP-LIGHT, TV 5 YEARS		
218-204	218-203	4/26/2002	D	D	W	MIN DEP-LIGHT, TV 5 YEARS		
218-204	218-203	4/26/2002	L	L	D	RIGHT ACTIVE	L MIN DEP	
218-204	218-203	4/26/2002	L	L	E	RIGHT BISCUIT	L MIN DEP	
218-208	218-209	7/30/2003	D	D	O	GREASE-HEAVY, REMOVE 3 MONTHS	heavy grease + grease blob	
218-221	218-138	6/8/2000	A	A	M	BACKFALL		
218-221	218-138	6/8/2000	A	A	M	BACKFALL		
218-221	218-138	6/8/2000	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
218-227	218-132	4/24/2002	DS	DS	R	AGGREGATE SHOWING IN PIPE		
218-227	218-132	4/24/2002	D	D	N	GREASE-MEDIUM, REMOVE 1 YEAR		
218-227	218-132	4/24/2002	A	A	K	LINE UP & DOWN	medium	
218-227	218-132	4/24/2002	A	A	K	LINE UP & DOWN	medium	
219-237	219-241	2/26/2002	L	L	I	BISCUIT DEFECT, REPAIR 1 YEAR		
219-237	219-241	2/26/2002	BJ	MS	J	BRK JT - LIGHT		
219-237	219-241	2/26/2002	D	D	7	DEBRIS-HEAVY, REMOVE TODAY		
219-237	219-241	2/26/2002	D	D	7	DEBRIS-HEAVY, REMOVE TODAY	HEAVY ROOTS HAD JET COME OUT & CLEAN CAN GET THOUGHT WILL HAVE JET CLEAN AGAIN	
219-237	219-241	2/26/2002	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
219-237	219-241	2/26/2002	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
219-237	219-241	2/26/2002	A	A	N	FLAT LINE		
219-237	219-241	2/26/2002	A	A	N	FLAT LINE		
219-237	219-241	2/26/2002	R	R	E	LIGHT, TV 5 YEARS		
219-237	219-241	2/26/2002	L	L	D	RIGHT ACTIVE	LT ROOTS	
219-237	219-241	2/26/2002	L	L	D	RIGHT ACTIVE	HAIRLINE CRACK	
219-237	219-241	2/26/2002	L	L	D	RIGHT ACTIVE	HAIRLINE CRACK	
219-238	219-239	4/16/2003	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS	SLUDGE	
219-239	219-383	4/16/2003	L	L	E	RIGHT BISCUIT	LARGE RAT'S NEST IN STUB	
219-241	219-242	4/6/1998	D	D	C	DEBRIS - HEAVY	ONLY. JET DEBRIS AND RETV	
219-241	219-242	4/6/1998	D	D	C	DEBRIS - HEAVY	ONLY. JET DEBRIS AND RETV	
219-241	219-242	4/6/1998	D	D	A	DEBRIS - LIGHT	TO 60'	
219-241	219-242	4/6/1998	D	D	A	DEBRIS - LIGHT	TO 60'	
219-241	219-242	4/6/1998	D	D	B	DEBRIS - MEDIUM	TO UNKNOWN. UNABLE TO PASS T 208'. JET AND RETV	
219-241	219-242	4/6/1998	D	D	B	DEBRIS - MEDIUM	TO UNKNOWN. UNABLE TO PASS T 208'. JET AND RETV	
219-241	219-242	4/6/1998	D	D	L	GREASE-LIGHT	TO TOTAL	
219-241	219-242	4/6/1998	D	D	L	GREASE-LIGHT	TO TOTAL	

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
219-241	219-242	4/6/1998	A	A	G	PIPE CURVES TO RIGHT	TO 176'	
219-241	219-242	4/6/1998	A	A	G	PIPE CURVES TO RIGHT	TO 176'	
219-241	219-242	4/6/1998	A	A	G	PIPE CURVES TO RIGHT	TO 176'	
219-241	219-242	4/6/1998	A	A	G	PIPE CURVES TO RIGHT	TO 176'	
219-241	219-242	4/6/1998	L	L	D	RIGHT ACTIVE	CRACKED WYE--NO REPAIR	
219-241	219-242	4/6/1998	L	L	D	RIGHT ACTIVE	CRACKED WYE--NO REPAIR	
219-241	219-242	4/6/1998	L	L	E	RIGHT BISCUIT		
219-241	219-242	4/6/1998	L	L	E	RIGHT BISCUIT		
219-241	219-242	4/6/1998	I	I	A	SEEPAGE AT JOINT		
219-241	219-242	4/6/1998	I	I	A	SEEPAGE AT JOINT		
219-246	219-328	8/15/2003	R	R	D	LIGHT, TV 10 YEARS		
219-246	219-328	8/15/2003	D	D	T	SAND-MEDIUM, REMOVE 1 YEAR		
219-246	219-328	8/15/2003	D	D	T	SAND-MEDIUM, REMOVE 1 YEAR		
219-253	219-254	2/14/1997	D	D	B	DEBRIS - MEDIUM	TO 201' ONLY NEED TO JET	
219-253	219-254	2/14/1997	D	D	L	GREASE-LIGHT	TO 155	
219-253	219-254	2/14/1997	R	R	B	MEDIUM ROOTS	TO 188' THRU JOINTS	
219-253	219-254	2/14/1997	R	R	B	MEDIUM ROOTS	INFIL THRU JTS REMOVE IN 1 YR	
219-253	219-254	2/14/1997	R	R	B	MEDIUM ROOTS	EXT INTO M\L	
219-253	219-254	2/14/1997	R	R	B	MEDIUM ROOTS	IMPACTED WITH RTS EXT INTO MAIN	
219-253	219-254	2/14/1997	R	R	B	MEDIUM ROOTS	INFIL THRU JTS	
219-253	219-254	2/14/1997	R	R	B	MEDIUM ROOTS	THRU JTS	
219-253	219-254	2/14/1997	L	L	D	RIGHT ACTIVE	EXT INTO M\L	
219-253	219-254	2/14/1997	L	L	F	RIGHT UNKNOWN	IMPACTED WITH RTS EXT INTO MAIN	
219-253	219-254	2/14/1997	A	A	C	BEGIN 1/2 PIPE WATER	TO 290'	
219-253	219-254	2/14/1997	A	A	C	BEGIN 1/2 PIPE WATER	TO 290'	
219-253	219-254	2/14/1997	A	A	B	END 1/4 PIPE WATER	TO 283'	
219-253	219-254	2/14/1997	A	A	B	END 1/4 PIPE WATER	TO 283'	
219-253	219-254	2/14/1997	D	D	L	GREASE-LIGHT	TO 161' AFTER RTS REMOVE	
219-253	219-254	2/14/1997	D	D	M	GREASE-MEDIUM	TO 168'	
219-253	219-254	2/14/1997	R	R	C	HEAVY ROOTS	IN STUB	
219-253	219-254	2/14/1997	R	R	C	HEAVY ROOTS	IMPACTED WITH RTS	
219-253	219-254	2/14/1997	L	L	D	RIGHT ACTIVE	IN STUB	
219-253	219-254	2/14/1997	L	L	F	RIGHT UNKNOWN	IMPACTED WITH RTS	
219-253	219-254	2/14/1997	A	A	L	SAG IN LINE	TO 129'	
219-253	219-254	2/14/1997	A	A	L	SAG IN LINE	TO 105'	
219-253	219-254	2/14/1997	A	A	L	SAG IN LINE	TO 77'	
219-253	219-254	2/14/1997	A	A	L	SAG IN LINE	TO 129'	
219-253	219-254	2/14/1997	A	A	L	SAG IN LINE	TO 105'	
219-253	219-254	2/14/1997	A	A	L	SAG IN LINE	TO 77'	
219-266	219-267	5/28/1998	A	A	L	SAG IN LINE	TO 276' VERY SLIGHT SAG ONLY	
219-266	219-267	5/28/1998	A	A	L	SAG IN LINE	TO 202' VERY SLIGHT SAG ONLY	
219-266	219-267	5/28/1998	A	A	L	SAG IN LINE	TO 276' VERY SLIGHT SAG ONLY	
219-266	219-267	5/28/1998	A	A	L	SAG IN LINE	TO 202' VERY SLIGHT SAG ONLY	
219-268	219-269	12/28/2001	D	D	P	GREASE-HEAVY, REMOVE TODAY	heavy grease camera unable to pass	
219-268	219-269	12/28/2001	L	L	A	LEFT ACTIVE	heavy grease	
219-268	219-269	12/28/2001	L	L	D	RIGHT ACTIVE	active	
219-268	219-269	4/4/2002	D	D	N	GREASE-MEDIUM, REMOVE 1 YEAR	COMING FROM S/S AT 13' L/S ACTIVE	
219-268	219-269	4/4/2002	L	L	A	LEFT ACTIVE	VERY HEAVY GREASE NOTIFY GARY LOCKWOOD	
219-269	219-277	4/4/2002	D	D	K	GREASE-LIGHT, REMOVE 3 YEARS		
219-273	219-271	10/11/2002	DS	DS	T	BROKEN, REPAIR 1 YEARS	Large open crack at bell end, top. See outside of pipe. See photo.	
219-273	219-271	10/11/2002	L	L	J	PTG 0-1"	Left, active. PVC core tap	

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
219-327	225-001	10/3/2000	L	L	A	LEFT ACTIVE	seigat offset @ stub	
219-327	225-001	10/3/2000	L	L	A	LEFT ACTIVE		
219-327	225-001	10/3/2000	L	L	J	PTG 0-1"		
219-327	225-001	10/3/2000	L	L	D	RIGHT ACTIVE	hairline crack @wyp n/r	
219-327	225-001	10/3/2000	L	L	D	RIGHT ACTIVE	seigat offset at stub @ wye	
219-327	225-001	10/3/2000	L	L	D	RIGHT ACTIVE	crack @ crown of wye see tape	
219-327	225-001	10/3/2000	L	L	E	RIGHT BISCUIT	n/r	
219-327	225-001	10/3/2000	L	L	F	RIGHT UNKNOWN	see tape	
219-328	225-002	12/31/1997	D	D	C	DEBRIS - HEAVY	ONLY CANT PASS DEBRIS	
219-328	225-002	12/31/1997	D	D	C	DEBRIS - HEAVY	TO ?	
219-328	225-002	12/31/1997	A	A	K	LINE UP & DOWN	TO 40	
219-328	225-002	12/31/1997	A	A	K	LINE UP & DOWN	TO 40	
219-328	225-002	12/31/1997	A	A	L	SAG IN LINE	TO ?	
219-328	225-002	12/31/1997	A	A	L	SAG IN LINE	TO ?	
219-338	219-337	5/28/1998	R	R	C	HEAVY ROOTS	HEAVY ROOTS ROTRUDING FROM CONN. NO MTCE NEEDED AT THIS TIME	
219-338	219-337	5/28/1998	L	L	F	RIGHT UNKNOWN	HEAVY ROOTS ROTRUDING FROM CONN. NO MTCE NEEDED AT THIS TIME	
219-383	219-240	4/16/2003	R	R	F	LIGHT, CUT 5 YEARS		
219-383	219-240	4/16/2003	R	R	E	LIGHT, TV 5 YEARS		
219-383	219-240	4/16/2003	R	R	H	MEDIUM, CUT 1 YEAR		
219-383	219-240	4/16/2003	L	L	D	RIGHT ACTIVE	L ROOTS IN STUB	
219-383	219-240	4/16/2003	I	I	A	SEEPAGE AT JOINT		
220-053	219-160	06/07/2005	CF-ACCPt	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
220-053	219-160	06/07/2005	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
220-053	219-160	06/07/2005	OM-ROOTS	R	RTC	ROOTS TAP CONNECTION	GOOD DEFECTS-NOT DETERIORATING	2
220-053	219-160	06/07/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	CF-TAP	TB	TBD	TAP BREAK-IN/HAMMER DEFECT	FAIR-MODERATE DEFECTS	3
220-053	219-160	06/07/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
220-053	219-160	06/07/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-004	224-009	5/26/2000	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR	ONLY,JET AND RETV,LENSE OUT OF FOCUS	
224-028	224-029	5/26/2000	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR	ONLY,TRIED TO TV LINE,LENSE WOULD NOT FOCUS.MADE DEFECT TO JET	
224-030	224-031	6/14/2000	MJ	MS	B	MEDIUM OFFSET	ONLY,UNABLE TO PASS	
224-031	224-086	12/2/2003	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
224-031	224-086	12/2/2003	I	I	B	LIGHT (0-1 GPM)		
224-031	224-086	12/2/2003	I	I	B	LIGHT (0-1 GPM)		
224-031	224-086	12/2/2003	L	L	D	RIGHT ACTIVE	LIGHT MIN DEPS IN S/S	
224-035	224-036	5/21/1997	L	L	B	LEFT BISCUIT	IN STUB	
224-035	224-036	5/21/1997	L	L	B	LEFT BISCUIT	IN STUB	
224-035	224-036	5/21/1997	L	L	B	LEFT BISCUIT	IN STUB	
224-035	224-036	5/21/1997	D	D	F	MIN DEP-HEAVY	IN STUB	
224-035	224-036	5/21/1997	D	D	F	MIN DEP-HEAVY	IN STUB	
224-035	224-036	5/21/1997	D	D	D	MIN DEP-LIGHT	TO TOTAL	
224-035	224-036	5/21/1997	D	D	D	MIN DEP-LIGHT		
224-035	224-036	5/21/1997	D	D	D	MIN DEP-LIGHT		
224-035	224-036	5/21/1997	D	D	D	MIN DEP-LIGHT		

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-035	224-036	5/21/1997	D	D	E	MIN DEP-MEDIUM	AT EGRESS PIPE	
224-035	224-036	5/21/1997	D	D	E	MIN DEP-MEDIUM	IN STUB	
224-035	224-036	5/21/1997	L	L	D	RIGHT ACTIVE		
224-035	224-036	5/21/1997	L	L	E	RIGHT BISCUIT		
224-035	224-036	5/21/1997	I	I	A	SEEPAGE AT JOINT		
224-038	224-039	4/1/1997	A	A	O	BEND IN LINE	IN STUB	
224-038	224-039	4/1/1997	A	A	O	BEND IN LINE	TO TOTAL	
224-038	224-039	4/1/1997	A	A	O	BEND IN LINE	LITE DOWNWARD BEND (CHANGE OF GRADE)	
224-038	224-039	4/1/1997	A	A	O	BEND IN LINE	LITE DOWNWARD BEND (CHANGE OF GRADE)	
224-038	224-039	4/1/1997	A	A	O	BEND IN LINE	LITE DOWNWARD BEND (CHANGE OF GRADE)	
224-038	224-039	4/1/1997	DS	DS	K	BROKEN, REPAIR	LITE DOWNWARD BEND (CHANGE OF GRADE)	
224-038	224-039	4/1/1997	D	D	A	DEBRIS - LIGHT	AT STUB JOINT, SEE PHOTO	
224-038	224-039	4/1/1997	D	D	A	DEBRIS - LIGHT	GROUT ON BOTTOM OF JOINT	
224-038	224-039	4/1/1997	L	L	A	LEFT ACTIVE	GROUT ON BOTTOM OF JOINT	
224-038	224-039	4/1/1997	L	L	A	LEFT ACTIVE	ON LEFT SIDE OF STUB	
224-038	224-039	4/1/1997	L	L	A	LEFT ACTIVE	1ST JOINT U/S FROM STUB JOINT	
224-038	224-039	4/1/1997	L	L	A	LEFT ACTIVE	AT STUB JOINT, SEE PHOTO	
224-038	224-039	4/1/1997	D	D	E	MIN DEP-MEDIUM	1ST JOINT U/S FROM STUB JOINT	
224-038	224-039	4/1/1997	D	D	E	MIN DEP-MEDIUM	AT STUB JOINT, SEE PHOTO	
224-038	224-039	4/1/1997	L	L	E	RIGHT BISCUIT	AT STUB JOINT, SEE PHOTO	
224-038	224-039	4/1/1997	I	I	A	SEEPAGE AT JOINT	CRACK IN STUB (INSIDE CIRCUMFERENCE)	
224-038	224-039	4/1/1997	I	I	A	SEEPAGE AT JOINT		
224-038	224-039	4/1/1997	I	I	A	SEEPAGE AT JOINT		
224-038	224-039	4/1/1997	I	I	A	SEEPAGE AT JOINT		
224-038	224-039	4/1/1997	MJ	MS	C	SEVERE OFFSET	1ST JOINT U/S FROM STUB JOINT	
224-039	224-417	3/13/1997	D	D	U	SAND-HEAVY, REMOVE TODAY	AT STUB JOINT, SEE PHOTO	
224-039	224-417	3/24/1997	A	A	E	CAMERA UNDERWATER	TO ? (PIPE IS 1/3 FULL OF SAND AND GRAVEL)	
224-039	224-417	3/24/1997	A	A	E	CAMERA UNDERWATER	TO TOTAL,CAMERA FLIPPED OVER,CLEAN LINE AND RETV	
224-039	224-417	3/24/1997	D	D	C	DEBRIS - HEAVY	TO TOTAL,CAMERA FLIPPED OVER,CLEAN LINE AND RETV	
224-039	224-417	3/24/1997	L	L	D	RIGHT ACTIVE	TO TOTAL,ROCKS REMOVE NOW	
224-039	224-417	3/24/1997	A	A	L	SAG IN LINE	OK	
224-039	224-417	3/24/1997	A	A	L	SAG IN LINE	TO ?	
224-039	224-417	7/29/1997	D	D	B	DEBRIS - MEDIUM	TO ?	
224-039	224-417	7/29/1997	L	L	A	LEFT ACTIVE	TO 17,ROCKS REMOVE 1 YR	
224-039	224-417	7/29/1997	D	D	D	MIN DEP-LIGHT	L SIDE STUB	
224-039	224-417	7/29/1997	D	D	D	MIN DEP-LIGHT		
224-039	224-417	7/29/1997	L	L	D	RIGHT ACTIVE		
224-039	224-417	7/29/1997	L	L	E	RIGHT BISCUIT	CONN FOR 12023 7TH NW 1ST PIPE OFF STUB HL CRACK RETV 5 YRS	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE		
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 301,LIGHT	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 285,MED	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 180,MED	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 99,LIGHT	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 72,LIGHT	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 301,LIGHT	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 285,MED	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 180,MED	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 99,LIGHT	
224-039	224-417	7/29/1997	A	A	L	SAG IN LINE	TO 72,LIGHT	
224-039	224-417	7/29/1997	I	I	A	SEEPAGE AT JOINT		
224-039	224-417	7/29/1997	I	I	A	SEEPAGE AT JOINT		
224-041	224-042	2/13/1997	D	D	D	MIN DEP-LIGHT	AT MOST JOINTS TO TOTAL	
224-041	224-042	2/13/1997	I	I	A	SEEPAGE AT JOINT	AT MOST JOINTS TO TOTAL	

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-042	224-104	2/13/1997	DS	DS	R	AGGREGATE SHOWING IN PIPE	TO TOTAL	
224-042	224-104	2/13/1997	A	A	K	LINE UP & DOWN	TO TOTAL RETV IN 5 YRS	
224-042	224-104	2/13/1997	A	A	K	LINE UP & DOWN	TO 134'	
224-042	224-104	2/13/1997	A	A	K	LINE UP & DOWN	TO TOTAL RETV IN 5 YRS	
224-042	224-104	2/13/1997	A	A	K	LINE UP & DOWN	TO 134'	
224-042	224-104	2/13/1997	MJ	MS	B	MEDIUM OFFSET	TO 98'	
224-042	224-104	2/13/1997	A	A	L	SAG IN LINE	TO 276' HALF PIPE OF WATER	
224-042	224-104	2/13/1997	A	A	L	SAG IN LINE	TO 112'	
224-042	224-104	2/13/1997	A	A	L	SAG IN LINE	TO 276' HALF PIPE OF WATER	
224-042	224-104	2/13/1997	A	A	L	SAG IN LINE	TO 112'	
224-042	224-104	2/13/1997	I	I	A	SEEPAGE AT JOINT	TO TOTAL	
224-042	224-104	01/10/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
224-042	224-104	01/10/2008	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	1% - 10%	<=10%
224-042	224-104	01/10/2008	OM-DEPS	DP	DSZ	DEPOSITS SETTLED OTHER	1% - 10%	<=10%
224-042	224-104	01/10/2008	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
224-042	224-104	01/10/2008	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
224-042	224-104	01/10/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-042	224-104	01/10/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-042	224-104	01/10/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-042	224-104	01/10/2008	SD-JOINT	MS	JOL	JOINT OFFSET LARGE >1.5	GOOD DEFECTS-NOT DETERIORATING	2
224-042	224-104	01/10/2008	SD-JOINT	MS	JOM	JOINT OFFSET MEDIUM =<1.5	EXCELLENT-MINOR DEFECTS	1
224-042	224-104	01/10/2008	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
224-042	224-104	01/10/2008	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
224-042	224-104	01/10/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
224-042	224-104	01/10/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
224-042	224-104	01/10/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-042	224-104	01/10/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
224-042	224-104	01/10/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
224-042	224-104	01/10/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
224-042	224-104	01/10/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
224-044	224-045	7/21/1998	D	D	L	GREASE-LIGHT	TOTAL	
224-044	224-045	7/21/1998	L	L	A	LEFT ACTIVE	CRKED Y REPAIR IN 5 YRS	
224-044	224-045	7/21/1998	L	L	D	RIGHT ACTIVE	PRT 3 4"	
224-046	224-047	5/6/1998	D	D	L	GREASE-LIGHT	TO TOTAL, VERY LIGHT GREASE	
224-047	224-048	11/6/1998	D	D	A	DEBRIS - LIGHT		
224-047	224-048	11/6/1998	L	L	A	LEFT ACTIVE	light roots	
224-047	224-048	11/6/1998	MJ	MS	A	LIGHT OFFSET		

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-047	224-048	11/6/1998	R	R	A	LIGHT ROOTS		
224-048	224-106	08/04/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE		
224-048	224-106	08/04/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE		
224-048	224-106	08/04/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE		
224-048	224-106	08/04/2005	OM-DEPI	DP	DNGV	DEPOSITS INGRESS GRAVEL		
224-048	224-106	08/04/2005	SD-PIPEF	DS	HVV	HOLE VOID VISIBLE		
224-048	224-106	08/04/2005	MS-MISC	M	MWL	MISC WATER LEVEL		
224-048	224-106	08/04/2005	OM-ROOTS	R	RF	ROOTS FINE		
224-048	224-106	08/04/2005	OM-ROOTS	R	RFC	ROOTS FINE CONNECTION		
224-048	224-106	08/04/2005	OM-ROOTS	R	RMC	ROOTS MEDIUM CONNECTION		
224-048	224-106	08/04/2005	OM-ROOTS	R	RML	ROOTS MEDIUM LATERAL		
224-048	224-106	08/04/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TBD	TAP BREAK-IN/HAMMER DEFECT		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE		
224-048	224-106	08/04/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED		
224-048	224-106	08/04/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED		
224-048	224-106	08/04/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED		
224-048	224-106	08/04/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT		
224-048	224-106	08/04/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT		
224-072	224-073	10/22/2001	A	A	L	SAG IN LINE		
224-072	224-073	10/22/2001	A	A	L	SAG IN LINE		
224-072	224-073	10/22/2001	A	A	L	SAG IN LINE		
224-072	224-073	10/22/2001	A	A	L	SAG IN LINE		
224-072	224-073	10/22/2001	D	D	U	SAND-HEAVY, REMOVE TODAY		
224-080	224-081	8/23/1999	DS	DS	R	AGGREGATE SHOWING IN PIPE		
224-081	224-082	8/23/1999	L	L	A	LEFT ACTIVE		
224-082	224-154	8/24/1999	A	A	O	BEND IN LINE		
224-082	224-154	8/24/1999	A	A	O	BEND IN LINE		
224-082	224-154	8/24/1999	R	R	G	LIGHT, CUT 3 YEARS		
224-093	224-094	2/24/1997	A	A	A	BEGIN 1/4 PIPE WATER		
224-093	224-094	2/24/1997	A	A	A	BEGIN 1/4 PIPE WATER		
224-093	224-094	2/24/1997	A	A	E	CAMERA UNDERWATER		
224-093	224-094	2/24/1997	A	A	E	CAMERA UNDERWATER		
224-093	224-094	2/24/1997	A	A	G	PIPE CURVES TO RIGHT		
224-093	224-094	2/24/1997	A	A	G	PIPE CURVES TO RIGHT		

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-093	224-094	2/25/1997	A	A	E	CAMERA UNDERWATER	TO 38	
224-093	224-094	2/25/1997	A	A	E	CAMERA UNDERWATER	TO 38	
224-093	224-094	2/25/1997	MJ	MS	B	MEDIUM OFFSET	ONLY LOST PICTURE PIGTAIL POPPED OFF	
224-093	224-094	2/25/1997	R	R	B	MEDIUM ROOTS	TO 20,CUT IN 3 YRS	
224-093	224-094	2/25/1997	L	L	I	TOP UNKNOWN		
224-093	224-094	2/28/1997	MJ	MS	A	LIGHT OFFSET	TO TOTAL,LIGHT TO MED.DEFLCTION LEFT AND RIGHT	
224-093	224-094	2/28/1997	A	A	L	SAG IN LINE	TO ?MED	
224-093	224-094	2/28/1997	A	A	L	SAG IN LINE	TO 398,LIGHT	
224-093	224-094	2/28/1997	A	A	L	SAG IN LINE	TO ?MED	
224-093	224-094	2/28/1997	A	A	L	SAG IN LINE	TO 398,LIGHT	
224-094	224-159	2/24/1997	A	A	E	CAMERA UNDERWATER	TO TOTAL	
224-094	224-159	2/24/1997	A	A	E	CAMERA UNDERWATER	TO 121	
224-094	224-159	2/24/1997	A	A	E	CAMERA UNDERWATER	TO 18	
224-094	224-159	2/24/1997	A	A	E	CAMERA UNDERWATER	TO TOTAL	
224-094	224-159	2/24/1997	A	A	E	CAMERA UNDERWATER	TO 121	
224-094	224-159	2/24/1997	A	A	E	CAMERA UNDERWATER	TO 18	
224-094	224-159	2/24/1997	R	R	A	LIGHT ROOTS	CUT IN 6 YRS	
224-094	224-159	2/24/1997	A	A	G	PIPE CURVES TO RIGHT		
224-094	224-159	2/24/1997	A	A	G	PIPE CURVES TO RIGHT		
224-094	224-159	2/28/1997	MJ	MS	A	LIGHT OFFSET	TO TOTAL,LIGHT DEFLECTON LEFT AND RIGHT	
224-094	224-159	2/28/1997	MJ	MS	B	MEDIUM OFFSET	TO 28	
224-094	224-159	2/28/1997	D	D	E	MIN DEP-MEDIUM	TO 28	
224-094	224-159	2/28/1997	A	A	L	SAG IN LINE	TO 229	
224-094	224-159	2/28/1997	A	A	L	SAG IN LINE	TO 152	
224-094	224-159	2/28/1997	A	A	L	SAG IN LINE	TO 40,HOLDING BACK 2" WATER	
224-094	224-159	2/28/1997	A	A	L	SAG IN LINE	TO 229	
224-094	224-159	2/28/1997	A	A	L	SAG IN LINE	TO 152	
224-094	224-159	2/28/1997	A	A	L	SAG IN LINE	TO 40,HOLDING BACK 2" WATER	
224-095	224-086	5/15/1997	MJ	MS	A	LIGHT OFFSET		
224-095	224-086	5/15/1997	I	I	A	SEEPAGE AT JOINT		
224-095	224-086	6/3/1997	D	D	A	DEBRIS - LIGHT		
224-095	224-086	6/3/1997	MJ	MS	O	LEAKING AT JOINT	THUR TOP OF JT	
224-095	224-086	6/3/1997	MJ	MS	O	LEAKING AT JOINT	T0 116	
224-095	224-086	6/3/1997	L	L	A	LEFT ACTIVE		
224-095	224-086	6/3/1997	L	L	A	LEFT ACTIVE		
224-095	224-086	6/3/1997	MJ	MS	A	LIGHT OFFSET		
224-095	224-086	6/3/1997	MJ	MS	A	LIGHT OFFSET		
224-095	224-086	6/3/1997	MJ	MS	A	LIGHT OFFSET		
224-095	224-086	6/3/1997	MJ	MS	B	MEDIUM OFFSET		
224-095	224-086	6/3/1997	D	D	F	MIN DEP-HEAVY		
224-095	224-086	6/3/1997	D	D	D	MIN DEP-LIGHT		
224-095	224-086	6/3/1997	D	D	D	MIN DEP-LIGHT	TO 29	
224-095	224-086	6/3/1997	D	D	D	MIN DEP-LIGHT		
224-095	224-086	6/3/1997	D	D	E	MIN DEP-MEDIUM	TO 103	
224-095	224-086	6/3/1997	D	D	E	MIN DEP-MEDIUM		
224-095	224-086	6/3/1997	D	D	E	MIN DEP-MEDIUM		
224-095	224-086	6/3/1997	D	D	E	MIN DEP-MEDIUM		
224-095	224-086	6/3/1997	D	D	E	MIN DEP-MEDIUM		
224-095	224-086	6/3/1997	D	D	E	MIN DEP-MEDIUM		
224-095	224-086	6/3/1997	D	D	E	MIN DEP-MEDIUM		
224-095	224-086	6/3/1997	D	D	E	MIN DEP-MEDIUM		
224-095	224-086	6/3/1997	L	L	D	RIGHT ACTIVE	POSS CON TO 11835(LOOKS OK)	
224-095	224-086	6/3/1997	L	L	E	RIGHT BISCUIT		

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-095	224-086	6/3/1997	L	L	E	RIGHT BISCUIT		
224-095	224-086	6/3/1997	L	L	E	RIGHT BISCUIT		
224-103	224-418	2/13/1997	R	R	A	LIGHT ROOTS	NO MTCE NEEDED	
224-103	224-418	2/13/1997	A	A	H	PIPE CURVES TO LEFT	TO TOTAL	
224-103	224-418	2/13/1997	A	A	H	PIPE CURVES TO LEFT	TO TOTAL	
224-105	224-104	5/23/1997	L	L	A	LEFT ACTIVE	PVC CONNECTION,SHOULD BE CONNECTION TO 415 NW 120TH ST (LOOKS OK)	
224-105	224-104	5/23/1997	L	L	D	RIGHT ACTIVE	CRACK ACROSS TOP OF STUB	
224-105	224-104	5/23/1997	L	L	E	RIGHT BISCUIT	CRACK ACROSS BOTTOM OF STUB AND ON RIGHT SIDE OF STUB IN M/L	
224-111	224-118	3/7/2001	L	L	W	CONNECTION BROKEN-REP 6 MONTHS	conn right [PRIVATE S/S]	
224-111	224-118	3/7/2001	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
224-111	224-118	3/7/2001	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR	rocks & sand	
224-111	224-118	3/7/2001	L	L	L	PTG 2-3"		
224-111	224-118	3/7/2001	L	L	D	RIGHT ACTIVE	1st pipe off dropped 4" repair	
224-111	224-118	3/7/2001	A	A	L	SAG IN LINE		
224-111	224-118	3/7/2001	A	A	L	SAG IN LINE		
224-112	224-113	7/18/2000	A	A	M	BACKFALL	slight backfall	
224-112	224-113	7/18/2000	A	A	M	BACKFALL	slight backfall	
224-112	224-113	7/18/2000	L	L	A	LEFT ACTIVE	crack in s/s....wye is in great shape	
224-113	224-133	7/18/2000	A	A	M	BACKFALL		
224-113	224-133	7/18/2000	A	A	M	BACKFALL		
224-113	224-133	7/18/2000	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR	unable to get past...reversed ends	
224-113	224-133	7/18/2000	MJ	MS	B	MEDIUM OFFSET		
224-115	224-140	10/7/1999	DS	DS	R	AGGREGATE SHOWING IN PIPE	May need to be replaced with in ten years	
224-115	224-140	10/7/1999	L	L	A	LEFT ACTIVE	RAD CRACK IN STUB RETV 5 YRS	
224-115	224-140	10/7/1999	R	R	E	LIGHT, TV 5 YEARS		
224-115	224-140	10/7/1999	DS	DS	H	SML PIECE PIPE MSSNG	R SIDE RETV 5 YRS	
224-131	224-130	10/9/2003	DS	DS	R	AGGREGATE SHOWING IN PIPE	IN INVERT ONLY	
224-131	224-130	10/9/2003	D	D	7	DEBRIS-HEAVY, REMOVE TODAY	Debris blockage needs jetted >(Grease)	
224-131	224-130	10/9/2003	R	R	D	LIGHT, TV 10 YEARS		
224-145	224-201	7/1/1997	A	A	C	BEGIN 1/2 PIPE WATER	TO 6	
224-145	224-201	7/1/1997	A	A	C	BEGIN 1/2 PIPE WATER	TO 284	
224-145	224-201	7/1/1997	A	A	C	BEGIN 1/2 PIPE WATER	TO 6	
224-145	224-201	7/1/1997	A	A	C	BEGIN 1/2 PIPE WATER	TO 284	
224-145	224-201	7/1/1997	A	A	E	CAMERA UNDERWATER	TO 290	
224-145	224-201	7/1/1997	A	A	E	CAMERA UNDERWATER	TO 290	
224-145	224-201	7/1/1997	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS	ONLY,REMOVE	
224-145	224-201	7/1/1997	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS	TO 290	
224-145	224-201	7/1/1997	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS	ONLY,CANT PASS DEBRIS	
224-145	224-201	7/1/1997	D	D	7	DEBRIS-HEAVY, REMOVE TODAY	TO 6	
224-145	224-201	7/1/1997	D	D	H	GREASE-HEAVY	TO ?	
224-145	224-201	7/1/1997	D	D	L	GREASE-LIGHT	IN STUB	
224-145	224-201	7/1/1997	D	D	K	GREASE-LIGHT, REMOVE 3 YEARS	TO ?	
224-145	224-201	7/1/1997	L	L	A	LEFT ACTIVE	IN STUB	
224-145	224-201	7/1/1997	L	L	D	RIGHT ACTIVE	CONNECTION FOR 102 NW 115TH ST OK	
224-145	224-201	1/7/2000	L	L	Y	CONNECTION BROKEN-REP 3 YEARS	SEE PHOTO	
224-145	224-201	1/7/2000	D	D	I	GREASE-LIGHT, TV 5 YEARS	3/4 PIPE OF WATER	
224-145	224-201	1/7/2000	A	A	L	SAG IN LINE	3/4 PIPE OF WATER	
224-145	224-201	1/7/2000	A	A	L	SAG IN LINE	NOT APPLICABLE	
224-145	224-201	01/11/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-145	224-201	01/11/2008	OM-DEPS	DP	DSZ	DEPOSITS SETTLED OTHER	1% - 10%	<=10%
224-145	224-201	01/11/2008	SD-FRACT	F	FS	FRACTURE SPIRAL	FAIR-MODERATE DEFECTS	3
224-145	224-201	01/11/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-145	224-201	01/11/2008	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
224-145	224-201	01/11/2008	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
224-145	224-201	01/11/2008	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
224-145	224-201	01/11/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	SD-SRFCH	M	SRIC	SURF ROUGHNESS INCREASE CHEM	EXCELLENT-MINOR DEFECTS	1
224-145	224-201	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-145	224-201	01/11/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
224-146	224-147	12/16/2003	L	L	A	LEFT ACTIVE	small crack on wye n/r	
224-146	224-147	12/16/2003	L	L	A	LEFT ACTIVE	light roots in s/s	
224-146	224-147	12/16/2003	R	R	D	LIGHT, TV 10 YEARS		
224-146	224-147	12/16/2003	R	R	E	LIGHT, TV 5 YEARS		
224-158	224-159	11/23/1999	BJ	BJ	E	OPEN-SEE O/S PIPE		
224-171	224-165	12/12/2003	I	I	B	LIGHT (0-1 GPM)		
224-172	224-171	3/25/1998	MJ	MS	J	BRK JT - LIGHT		
224-172	224-171	3/25/1998	MJ	MS	J	BRK JT - LIGHT		
224-172	224-171	3/25/1998	I	I	D	HEAVY (>5 GPM) REPAIR		
224-172	224-171	3/25/1998	MJ	MS	C	SEVERE OFFSET	ONLY. SEVERE OFFSET AT REPAIR UNABLE TO PASS	
224-172	224-171	12/12/2003	DS	DS	I	PIPE TYPE CHANGE	pvc pipe	
224-183	224-182	7/27/2004	R	R	D	LIGHT, TV 10 YEARS		
224-196	224-195	07/30/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	SD-PIPEF	BP	B	BROKEN	IMMEDIATE ATTENTION	5
224-196	224-195	07/30/2008	SD-PIPEF	BP	B	BROKEN	IMMEDIATE ATTENTION	5
224-196	224-195	07/30/2008	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	GREATER THAN 30%	>30%
224-196	224-195	07/30/2008	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
224-196	224-195	07/30/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TB	TAP BREAK-IN/HAMMER	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TF	TAP FACTORY MADE	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TF	TAP FACTORY MADE	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-196	224-195	07/30/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-196	224-195	07/30/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
224-201	224-202	01/11/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-201	224-202	01/11/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-201	224-202	01/11/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-202	224-203	6/23/2000	A	A	M	BACKFALL		
224-202	224-203	6/23/2000	A	A	M	BACKFALL		
224-202	224-203	6/23/2000	L	L	A	LEFT ACTIVE	broken wye....REPAIR...see tape	
224-202	224-203	01/11/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	OM-DEPS	DP	DSZ	DEPOSITS SETTLED OTHER	1% - 10%	<=10%
224-202	224-203	01/11/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-202	224-203	01/11/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-202	224-203	01/11/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-202	224-203	01/11/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-202	224-203	01/11/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-202	224-203	01/11/2008	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
224-202	224-203	01/11/2008	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
224-202	224-203	01/11/2008	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
224-202	224-203	01/11/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	OM-RTSJ	R	RFJ	ROOTS FINE AT JOINT	EXCELLENT-MINOR DEFECTS	1
224-202	224-203	01/11/2008	OM-RTSJ	R	RFJ	ROOTS FINE AT JOINT	EXCELLENT-MINOR DEFECTS	1
224-202	224-203	01/11/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
224-202	224-203	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
224-202	224-203	01/11/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
224-202	224-203	01/11/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
224-227	224-320	6/14/2000	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS	ONLY,CALLED FOR JET	
224-227	224-320	6/15/2000	L	L	D	RIGHT ACTIVE	CRACK AT WYE RETV 5 YRS.	
224-247	224-342	5/8/2002	A	A	M	BACKFALL	slight backfall	
224-247	224-342	5/8/2002	A	A	M	BACKFALL	slight backfall	
224-247	224-342	5/8/2002	L	L	B	LEFT BISCUIT	roots in stub protruding into m/l	
224-247	224-342	5/8/2002	R	R	G	LIGHT, CUT 3 YEARS	hydrocut 1.5 - 3.0 yrs	
224-273	224-272	6/26/1997	L	L	A	LEFT ACTIVE		
224-273	224-272	6/26/1997	L	L	A	LEFT ACTIVE		
224-273	224-272	6/26/1997	L	L	A	LEFT ACTIVE		
224-273	224-272	6/26/1997	L	L	A	LEFT ACTIVE		
224-273	224-272	6/26/1997	L	L	A	LEFT ACTIVE		
224-273	224-272	6/26/1997	L	L	A	LEFT ACTIVE		
224-273	224-272	6/26/1997	L	L	D	RIGHT ACTIVE		
224-273	224-272	6/26/1997	L	L	D	RIGHT ACTIVE		

(THERE IS DEBRIS INSIDE S/S)

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-273	224-272	6/26/1997	L	L	D	RIGHT ACTIVE		
224-281	224-280	7/20/2000	L	L	A	LEFT ACTIVE	heavy debris in s/s	
224-281	224-280	7/20/2000	L	L	D	RIGHT ACTIVE	small hole in wye....no repair	
224-285	224-172	3/25/1998	R	R	A	LIGHT ROOTS		
224-285	224-172	3/25/1998	R	R	A	LIGHT ROOTS		
224-285	224-172	12/12/2003	R	R	D	LIGHT, TV 10 YEARS		
224-286	224-285	3/25/1998	R	R	G	LIGHT, CUT 3 YEARS	TO 280'. AFTER RODDER RODDED	
224-286	224-285	3/25/1998	R	R	B	MEDIUM ROOTS	ROOTS WERE IN M/L AND HOLDING BACK WATER	
224-286	224-285	3/25/1998	D	D	D	MIN DEP-LIGHT	BUT RODDER REMOVED THEM	
224-286	224-285	11/24/1999	A	A	P	CHANGE IN GRADE	TO 80'	
224-286	224-285	11/24/1999	A	A	P	CHANGE IN GRADE		
224-286	224-285	11/24/1999	R	R	F	LIGHT, CUT 5 YEARS		
224-286	224-285	11/24/1999	R	R	F	LIGHT, CUT 5 YEARS		
224-286	224-285	11/24/1999	R	R	F	LIGHT, CUT 5 YEARS		
224-286	224-285	11/24/1999	R	R	D	LIGHT, TV 10 YEARS		
224-286	224-285	11/24/1999	R	R	D	LIGHT, TV 10 YEARS		
224-286	224-285	11/24/1999	R	R	H	MEDIUM, CUT 1 YEAR		
224-286	224-285	11/24/1999	D	D	X	MIN DEP-LIGHT, REMOVE 3 YEARS		
224-286	224-285	11/24/1999	DS	DS	H	SML PIECE PIPE MSSNG		
224-286	224-285	12/12/2003	MJ	MS	A	LIGHT OFFSET		
224-286	224-285	12/12/2003	R	R	D	LIGHT, TV 10 YEARS		
224-286	224-285	12/12/2003	R	R	D	LIGHT, TV 10 YEARS		
224-286	224-285	12/12/2003	R	R	E	LIGHT, TV 5 YEARS		
224-286	224-285	12/12/2003	R	R	E	LIGHT, TV 5 YEARS		
224-286	224-285	12/12/2003	DS	DS	I	PIPE TYPE CHANGE	pvc pipe	
224-303	224-302	2/22/1999	A	A	O	BEND IN LINE	VERTICAL DOWNWARD BEND	
224-303	224-302	2/22/1999	A	A	O	BEND IN LINE	VERTICAL DOWNWARD BEND	
224-303	224-302	2/22/1999	D	D	B	DEBRIS - MEDIUM	ONLY,LOOKS LIKE PIECE OF GROUT CANT PASS	
224-303	224-302	2/22/1999	DS	DS	M	MEDIUM OVERALL PIPE DET		
224-309	224-310	4/7/1999	A	A	L	SAG IN LINE		
224-309	224-310	4/7/1999	A	A	L	SAG IN LINE		
224-311	224-312	01/14/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-311	224-312	01/14/2008	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
224-311	224-312	01/14/2008	OM-DEPS	DP	DSGV	DEPOSITS SETTLED GRAVEL	1% - 10%	<=10%
224-311	224-312	01/14/2008	MS-MISC	M	MMC	MISC MATERIAL CHANGE	NOT APPLICABLE	N/A
224-311	224-312	01/14/2008	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
224-311	224-312	01/14/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-311	224-312	01/14/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-311	224-312	01/14/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
224-312	224-313	7/29/1997	D	D	A	DEBRIS - LIGHT	TO 22	
224-312	224-313	7/29/1997	A	A	N	FLAT LINE	TO 22	
224-312	224-313	7/29/1997	A	A	N	FLAT LINE	TO 22	
224-312	224-313	7/29/1997	A	A	L	SAG IN LINE	TO 35,LIGHT	
224-312	224-313	7/29/1997	A	A	L	SAG IN LINE	TO 35,LIGHT	
224-312	224-313	10/18/2001	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS		
224-312	224-313	10/18/2001	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
224-312	224-313	10/18/2001	R	R	H	MEDIUM, CUT 1 YEAR	cut 6 months	
224-312	224-313	4/22/2003	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
224-312	224-313	4/22/2003	R	R	G	LIGHT, CUT 3 YEARS	CUT 2 YRS	
224-312	224-313	4/29/2003	DS	DS	Z	AT MAINTENANCE HOLE NUMBER	CHANNEL IN M/H 224-313 NEED MUD WORK	
224-312	224-313	4/29/2003	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
224-312	224-313	4/29/2003	R	R	H	MEDIUM, CUT 1 YEAR		

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-313	224-381	10/18/2001	A	A	P	CHANGE IN GRADE	pipe dives	
224-313	224-381	10/18/2001	A	A	P	CHANGE IN GRADE	pipe dives	
224-313	224-381	10/18/2001	A	A	P	CHANGE IN GRADE	pipe dives	
224-313	224-381	10/18/2001	A	A	P	CHANGE IN GRADE	pipe dives	
224-313	224-381	10/18/2001	D	D	K	GREASE-LIGHT, REMOVE 3 YEARS	TO UNKNOWN M/H 25' UP STREAM OF METRO LINE.	
224-313	224-381	10/18/2001	A	A	H	PIPE CURVES TO LEFT		
224-313	224-381	10/18/2001	A	A	H	PIPE CURVES TO LEFT		
224-313	224-381	10/18/2001	MJ	MS	I	WD JT > 4"	or this is a coupler of somekind	
224-313	224-381	4/22/2003	A	A	P	CHANGE IN GRADE	VERTICAL DOWNWARD BEND	
224-313	224-381	4/22/2003	A	A	P	CHANGE IN GRADE	SEVERE OPEN JOINT	
224-313	224-381	4/22/2003	A	A	P	CHANGE IN GRADE	VERTICAL DOWNWARD BEND	
224-313	224-381	4/22/2003	A	A	P	CHANGE IN GRADE	SEVERE OPEN JOINT	
224-313	224-381	4/22/2003	R	R	G	LIGHT, CUT 3 YEARS		
224-313	224-381	4/22/2003	DS	DS	I	MED PIECE PIPE MSSNG	CIP	
224-313	224-381	4/22/2003	I	I	C	MEDIUM (1-5 GPM) REPAIR	TOTAL INFIL IN M/H	
224-313	224-381	4/22/2003	A	A	H	PIPE CURVES TO LEFT	CURUES TO LEFT	
224-313	224-381	4/22/2003	A	A	H	PIPE CURVES TO LEFT	CURUES TO LEFT	
224-313	224-381	4/22/2003	MJ	MS	G	WD JT 2" - 3"		
224-313	224-381	4/29/2003	A	A	P	CHANGE IN GRADE	VERT. DOWNWARD BEND	
224-313	224-381	4/29/2003	A	A	P	CHANGE IN GRADE	VERTICAL DOWNWARD BEND	
224-313	224-381	4/29/2003	A	A	P	CHANGE IN GRADE	VERT. DOWNWARD BEND	
224-313	224-381	4/29/2003	A	A	P	CHANGE IN GRADE	VERTICAL DOWNWARD BEND	
224-313	224-381	4/29/2003	R	R	G	LIGHT, CUT 3 YEARS		
224-313	224-381	4/29/2003	DS	DS	I	PIPE TYPE CHANGE	CIP	
224-313	224-381	4/29/2003	MJ	MS	G	WD JT 2" - 3"		
224-313	224-381	12/20/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-313	224-381	12/20/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-313	224-381	12/20/2005	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
224-313	224-381	12/20/2005	CF-LINE	A	LD	LINE DOWN	LINE GREATER THAN 20 DEGREES	L>20D
224-313	224-381	12/20/2005	CF-LINE	A	LD	LINE DOWN	LINE GREATER THAN 20 DEGREES	L>20D
224-313	224-381	12/20/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-313	224-381	12/20/2005	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
224-313	224-381	12/20/2005	SD-SRFME	M	SRIM	SURF ROUGHNESS INCREASE MECH	EXCELLENT-MINOR DEFECTS	1
224-313	224-381	10/18/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-313	224-381	10/18/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-313	224-381	10/18/2006	CF-LINE	A	LD	LINE DOWN	LINE GREATER THAN 20 DEGREES	L>20D
224-313	224-381	10/18/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-313	224-381	10/18/2006	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
224-313	224-381	10/18/2006	SD-SRFNE	M	SAMZ	SURF AGGREGATE MISSING NOT EV	POOR-SEVERE DEFECTS	4
224-316	224-315	10/18/2001	A	A	P	CHANGE IN GRADE	PIPE LEVEL OFF	
224-316	224-315	10/18/2001	A	A	P	CHANGE IN GRADE	PIPE LEVEL OFF	
224-316	224-315	10/18/2001	D	D	N	GREASE-MEDIUM, REMOVE 1 YEAR		
224-316	224-315	10/18/2001	I	I	C	MEDIUM (1-5 GPM) REPAIR	AT EGRESS OF M/H	
224-316	224-315	4/30/2003	A	A	P	CHANGE IN GRADE		
224-316	224-315	4/30/2003	A	A	P	CHANGE IN GRADE	downward bend	
224-316	224-315	4/30/2003	A	A	P	CHANGE IN GRADE		
224-316	224-315	4/30/2003	A	A	P	CHANGE IN GRADE	downward bend	
224-316	224-315	4/30/2003	MJ	MS	H	WD JT 3" - 4"	no infl	
224-317	224-316	4/30/2003	A	A	P	CHANGE IN GRADE	downward bend	
224-317	224-316	4/30/2003	A	A	P	CHANGE IN GRADE	downward bend	
224-317	224-316	4/30/2003	D	D	K	GREASE-LIGHT, REMOVE 3 YEARS		
224-317	224-316	4/30/2003	R	R	G	LIGHT, CUT 3 YEARS		

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-317	224-316	4/30/2003	R	R	G	LIGHT, CUT 3 YEARS		
224-317	224-316	4/30/2003	R	R	H	MEDIUM, CUT 1 YEAR		
224-317	224-316	4/30/2003	L	L	K	PTG 1-2"	conn left	
224-320	224-319	6/27/1997	L	L	A	LEFT ACTIVE		
224-320	224-319	6/27/1997	L	L	A	LEFT ACTIVE		
224-320	224-319	6/27/1997	L	L	D	RIGHT ACTIVE		
224-320	224-319	6/27/1997	L	L	D	RIGHT ACTIVE		
224-320	224-319	6/27/1997	L	L	G	TOP ACTIVE		
224-321	224-320	6/14/2000	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS	ONLY,CALLED FOR JET	
224-321	224-320	6/15/2000	DS	DS	K	BROKEN, REPAIR	GAS LINE GOING THRU SEWER M/L.... REMOVE NOW, SEE TAPE AND PHOTO.	
224-321	224-320	6/15/2000	DS	DS	K	BROKEN, REPAIR	BROKEN, REPAIR AFTER REMOVING GAS SERVICE.	
224-321	224-320	6/15/2000	D	D	I	MIN DEP-HEAVY, REMOVE TODAY	jet was called in and had line cleaned.	
224-328	224-329	5/2/2001	L	L	N	DEFECTIVE CONNECTION		
224-328	224-329	5/2/2001	L	L	A	LEFT ACTIVE		
224-330	224-326	5/14/1997	L	L	2	BISCUIT BROKEN, TV IN 10 YEARS		
224-330	224-326	5/14/1997	L	L	A	LEFT ACTIVE	TOP RIGHT SIDE OF STUB. (NO REPAIR)	
224-330	224-326	5/14/1997	L	L	D	RIGHT ACTIVE	CRK IN STUB(NO REP)	
224-330	224-326	5/14/1997	DS	DS	H	SML PIECE PIPE MSSNG	TOP RIGHT SIDE OF STUB. (NO REPAIR)	
224-331	224-330	3/12/1997	I	I	A	SEEPAGE AT JOINT	TO ?(THRU MOST JOINTS)	
224-331	224-330	3/13/1997	L	L	A	LEFT ACTIVE	LOCATION	
224-331	224-330	3/13/1997	L	L	B	LEFT BISCUIT	NOT SHOWN ON S/S CARD	
224-331	224-330	3/13/1997	D	D	D	MIN DEP-LIGHT	TO 56 (ON JOINTS)	
224-331	224-330	3/13/1997	DS	DS	A	PIPE DET LIGHT-POINT	TO 23	
224-331	224-330	3/13/1997	DS	DS	A	PIPE DET LIGHT-POINT	TO 140 (SIGNS OF WATER SEEPAGE THUR MOST JOINTS)	
224-331	224-330	3/13/1997	L	L	K	PTG 1-2"	ON LEFT (SAME CONNECTION ON D/S INSP AT 140 FT)	
224-331	224-330	3/13/1997	L	L	K	PTG 1-2"	ON LEFT (LOOKS OK) SHOULD BE CONNECTION TO 213 N.105TH ST.(SEE PHOTO)	
224-331	224-330	3/13/1997	I	I	A	SEEPAGE AT JOINT	TO 140 (SIGNS OF WATER SEEPAGE THUR MOST JOINTS)	
224-331	224-330	5/14/1997	L	L	A	LEFT ACTIVE	CON TO 205 N.W.105TH ST. (LOOKS OK)	
224-331	224-330	5/14/1997	D	D	D	MIN DEP-LIGHT	TO 56 ON MOST JOINTS.	
224-331	224-330	5/14/1997	L	L	K	PTG 1-2"	ON LEFT (CON TO 213 NW 105TH ST) LOOKS OK	
224-331	224-330	5/14/1997	I	I	A	SEEPAGE AT JOINT	TO 56 ON MOST JOINTS.	
224-341	224-337	3/13/1997	A	A	O	BEND IN LINE	LITE BEND TO THE LEFT	
224-341	224-337	3/13/1997	A	A	O	BEND IN LINE	LITE BEND TO THE LEFT	
224-341	224-337	3/13/1997	D	D	A	DEBRIS - LIGHT	TO 31 (GREASE ON SIDES)	
224-341	224-337	3/13/1997	D	D	A	DEBRIS - LIGHT	TO 79 (GREASE ON BOTTOM SIDES)	
224-341	224-337	3/13/1997	R	R	C	HEAVY ROOTS	ROOTS INFILL THRU JOINT (SAME JOINT ON D/S INSP AT 251(REMOVE IN 3 MO))	
224-341	224-337	3/13/1997	R	R	C	HEAVY ROOTS	INFILL THRU JOINT (REMOVE IN 3 MONTHS)	
224-341	224-337	3/13/1997	L	L	A	LEFT ACTIVE	LOOKS OK (SHOULD BE CONNECTION TO 115 N.105TH ST)	
224-341	224-337	3/13/1997	L	L	C	LEFT UNKNOWN	ROOTS INFILL THRU STUB JOINT	
224-341	224-337	3/13/1997	R	R	A	LIGHT ROOTS	PTG ON LEFT (ROOTS INFILL THRU STUB JOINT,SMALL PIECE MISSING ON BOTM)	
224-341	224-337	3/13/1997	R	R	A	LIGHT ROOTS	TO 245 (INFILL THRU JOINTS)	
224-341	224-337	3/13/1997	R	R	A	LIGHT ROOTS	ROOTS INFILL THRU JOINT	
224-341	224-337	3/13/1997	R	R	A	LIGHT ROOTS	ROOTS INFILL THRU STUB JOINT	
224-341	224-337	3/13/1997	R	R	A	LIGHT ROOTS	ROOTS INFILL THRU JOINT	

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
224-341	224-337	3/13/1997	R	R	B	MEDIUM ROOTS	ROOTS INFILL THRU JOINT	
224-341	224-337	3/13/1997	R	R	B	MEDIUM ROOTS	ROOTS INFILL THRU TOP OF JOINT	
224-341	224-337	3/13/1997	R	R	B	MEDIUM ROOTS	INFILL THRU JOINT	
224-341	224-337	3/13/1997	R	R	B	MEDIUM ROOTS	ROOTS INFILL THRU TOP OF JOINT	
224-341	224-337	3/13/1997	R	R	B	MEDIUM ROOTS	ROOTS INFILL THRU JOINT	
224-341	224-337	3/13/1997	D	D	E	MIN DEP-MEDIUM	TO 35 (ON TOP)	
224-341	224-337	3/13/1997	DS	DS	A	PIPE DET LIGHT-POINT	TO 251	
224-341	224-337	3/13/1997	L	L	J	PTG 0-1"	PTG ON LEFT (ROOTS INFILL THRU STUB JOINT,SMALL PIECE MISSING ON BOTTM total	
224-343	224-345	9/4/2003	D	D	K	GREASE-LIGHT, REMOVE 3 YEARS		
224-343	224-345	9/4/2003	R	R	G	LIGHT, CUT 3 YEARS	med piece pipe missing	
224-343	224-345	9/4/2003	R	R	G	LIGHT, CUT 3 YEARS	med piece pipe missing	
224-343	224-345	9/4/2003	DS	DS	I	MED PIECE PIPE MSSNG	TO 160 (SLUDGE AND GREASE)	
224-343	224-345	9/4/2003	DS	DS	I	MED PIECE PIPE MSSNG	LOOKS OK (SHOULD BE CONNECTION TO 135 N 105TH ST)	
224-344	224-341	3/12/1997	D	D	A	DEBRIS - LIGHT	LOOKS OK (PIPE DETERIORATION IN STUB TO 160 (SLUDGE AND GREASE))	
224-344	224-341	3/12/1997	L	L	A	LEFT ACTIVE	LOOKS OK (PIPE DETERIORATION IN STUB)	
224-344	224-341	3/12/1997	DS	DS	A	PIPE DET LIGHT-POINT	HVY GREASE OR MIN DEP	
224-344	224-341	3/12/1997	DS	DS	A	PIPE DET LIGHT-POINT		
224-344	224-341	3/12/1997	L	L	D	RIGHT ACTIVE		
224-381	224-315	4/22/2003	A	A	E	CAMERA UNDERWATER		
224-381	224-315	4/22/2003	A	A	E	CAMERA UNDERWATER		
224-381	224-315	4/22/2003	D	D	P	GREASE-HEAVY, REMOVE TODAY		
224-381	224-315	4/22/2003	D	D	K	GREASE-LIGHT, REMOVE 3 YEARS		
224-381	224-315	4/29/2003	A	A	O	BEND IN LINE		
224-381	224-315	4/29/2003	A	A	O	BEND IN LINE		
224-381	224-315	4/29/2003	A	A	E	CAMERA UNDERWATER		
224-381	224-315	4/29/2003	A	A	E	CAMERA UNDERWATER		
224-381	224-315	4/29/2003	D	D	O	GREASE-HEAVY, REMOVE 3 MONTHS	grease and min dep	
224-381	224-315	4/29/2003	D	D	P	GREASE-HEAVY, REMOVE TODAY	only hvy grease	
224-381	224-315	4/29/2003	I	I	C	MEDIUM (1-5 GPM) REPAIR	at egress pipe	
224-381	224-315	12/20/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-381	224-315	12/20/2005	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
224-381	224-315	12/20/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-381	224-315	12/20/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-381	224-315	12/20/2005	SD-SRFCH	M	SRIC	SURF ROUGHNESS INCREASE CHEM	EXCELLENT-MINOR DEFECTS	1
224-381	224-315	10/18/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
224-381	224-315	10/18/2006	OM-INFIL	I	IR	INFILTRATION RUNNER	POOR-SEVERE DEFECTS	4
224-381	224-315	10/18/2006	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
224-381	224-315	10/18/2006	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
224-381	224-315	10/18/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
224-413	224-093	2/21/1997	R	R	A	LIGHT ROOTS	CUT IN 6 YRS	
224-413	224-093	2/21/1997	R	R	A	LIGHT ROOTS	CUT IN 6 YRS	
224-413	224-093	2/21/1997	A	A	G	PIPE CURVES TO RIGHT		
224-413	224-093	2/21/1997	A	A	G	PIPE CURVES TO RIGHT		
225-002	225-013	9/9/1998	D	D	A	DEBRIS - LIGHT	TO 285'	
225-002	225-013	9/9/1998	D	D	A	DEBRIS - LIGHT	TO 40'	
225-002	225-013	9/9/1998	D	D	L	GREASE-LIGHT	TO TOTAL VERY LIGHT GREASE ONLY	
225-002	225-013	9/9/1998	A	A	H	PIPE CURVES TO LEFT		
225-002	225-013	9/9/1998	A	A	H	PIPE CURVES TO LEFT		
225-002	225-013	9/9/1998	A	A	G	PIPE CURVES TO RIGHT		
225-002	225-013	9/9/1998	A	A	G	PIPE CURVES TO RIGHT		
225-010	225-011	12/13/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
225-010	225-011	12/13/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-010	225-011	12/13/2005	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
225-010	225-011	12/13/2005	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
225-010	225-011	12/13/2005	OM-DEPI	DP	DNF	DEPOSITS INGRESS FINES	1% - 10%	<=10%
225-010	225-011	12/13/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-010	225-011	12/13/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-010	225-011	12/13/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-010	225-011	12/13/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
225-010	225-011	12/13/2005	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-010	225-011	12/13/2005	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-010	225-011	12/13/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	SD-SRFME	M	SAVM	SURF AGGREGATE VISIBLE MECH	FAIR-MODERATE DEFECTS	3
225-010	225-011	12/13/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-010	225-011	12/13/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-011	225-324	3/18/2003	A	A	L	SAG IN LINE	3" SAG,M WATER MOVING THROUGH FIND	
225-011	225-324	3/18/2003	A	A	L	SAG IN LINE	3" SAG,M WATER MOVING THROUGH FIND	
225-012	225-011	12/13/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-012	225-011	12/13/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-012	225-011	12/13/2005	OM-DEPA	DPA	DAR	DEPOSITS ATTACHED RAGGING	1% - 10%	<=10%
225-012	225-011	12/13/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-012	225-011	12/13/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-012	225-011	12/13/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
225-012	225-011	12/13/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
225-012	225-011	12/13/2005	OM-ROOTS	R	RFL	ROOTS FINE LATERAL	EXCELLENT-MINOR DEFECTS	1
225-012	225-011	12/13/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
225-012	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-012	225-011	12/13/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-012	225-011	12/13/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-012	225-011	12/13/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-013	225-014	9/9/1998	D	D	B	DEBRIS - MEDIUM	ONLY. UNABLE TO TRACTOR THRU DEBRIS	
225-013	225-014	9/9/1998	D	D	B	DEBRIS - MEDIUM	TO 4'	
225-013	225-014	9/9/1998	D	D	B	DEBRIS - MEDIUM	TO UNKNOWN REMOVE WITHIN 3 MONTHS	
225-013	225-014	9/9/1998	L	L	A	LEFT ACTIVE	PROTRUDING 2"	
225-016	225-017	8/7/2000	D	D	7	DEBRIS-HEAVY, REMOVE TODAY	L/S ACTIVE PROTRUDING 2"-VERY HEAVY DEBRIS BUILDUP FROM THIS CONNECTION. AS FAR AS WE CAN SEE THIS IS AS FAR AS WE CAN TV. DUE TO THIS BEING A L/H. JET NOW, DEFECT REPORT MADE.	
225-016	225-017	8/7/2000	L	L	A	LEFT ACTIVE		
225-020	225-030	3/19/2002	D	D	3	DEBRIS-LIGHT, TV 5 YEARS		

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
225-020	225-030	3/19/2002	L	L	A	LEFT ACTIVE	conn. ok no roots at m/l or in s/s at m/l	
225-020	225-030	3/19/2002	L	L	A	LEFT ACTIVE	2" gap at bottom at wye & s/s	
225-020	225-030	3/19/2002	L	L	D	RIGHT ACTIVE	slight offset at wye no repair	
225-020	225-030	3/19/2002	DS	DS	H	SML PIECE PIPE MSSNG	has been patched n/r needed	
225-022	225-024	4/7/1999	R	R	C	HEAVY ROOTS	GREASY ROOTBALL IN CHANNEL REMOVE	
225-022	225-024	4/7/1999	R	R	A	LIGHT ROOTS		
225-022	225-024	4/7/1999	R	R	F	LIGHT, CUT 5 YEARS		
225-022	225-024	4/7/1999	DS	DS	H	SML PIECE PIPE MSSNG	L/S AT SPIGOT NO INFIL	
225-023	225-024	5/12/2003	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
225-023	225-024	5/12/2003	R	R	F	LIGHT, CUT 5 YEARS		
225-023	225-024	5/12/2003	R	R	D	LIGHT, TV 10 YEARS		
225-023	225-024	5/12/2003	R	R	D	LIGHT, TV 10 YEARS		
225-023	225-024	5/12/2003	R	R	H	MEDIUM, CUT 1 YEAR		
225-023	225-024	5/12/2003	L	L	D	RIGHT ACTIVE	LIGHT ROOTS	
225-024	225-032	5/12/2003	D	D	4	DEBRIS-LIGHT, REMOVE 3 YEARS		
225-024	225-032	5/12/2003	R	R	F	LIGHT, CUT 5 YEARS		
225-024	225-032	5/12/2003	L	L	D	RIGHT ACTIVE	LIGHT ROOTS	
225-027	225-036	12/28/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	SD-PIPEF	BP	B	BROKEN	IMMEDIATE ATTENTION	5
225-027	225-036	12/28/2007	SD-CRACK	RC	CC	CRACK CIRCUMFERENTIAL	EXCELLENT-MINOR DEFECTS	1
225-027	225-036	12/28/2007	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-027	225-036	12/28/2007	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-027	225-036	12/28/2007	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-027	225-036	12/28/2007	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-027	225-036	12/28/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-027	225-036	12/28/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-027	225-036	12/28/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-027	225-036	12/28/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-027	225-036	12/28/2007	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-027	225-036	12/28/2007	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-027	225-036	12/28/2007	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-027	225-036	12/28/2007	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
225-027	225-036	12/28/2007	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-027	225-036	12/28/2007	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-027	225-036	12/28/2007	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
225-027	225-036	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
225-027	225-036	12/28/2007	SD-SRFCH	M	SRIC	SURF ROUGHNESS INCREASE CHEM	EXCELLENT-MINOR DEFECTS	1
225-027	225-036	12/28/2007	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-027	225-036	12/28/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-027	225-036	12/28/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-027	225-036	12/28/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-036	225-045	11/14/1997	D	D	A	DEBRIS - LIGHT	TO 210' S/S TO 423 N 120TH OK	
225-036	225-045	11/14/1997	D	D	E	MIN DEP-MEDIUM		
225-036	225-045	11/14/1997	L	L	D	RIGHT ACTIVE		
225-036	225-045	11/14/1997	I	I	A	SEEPAGE AT JOINT		
225-036	225-045	12/28/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-036	225-045	12/28/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-036	225-045	12/28/2007	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-036	225-045	12/28/2007	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-036	225-045	12/28/2007	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
225-036	225-045	12/28/2007	OM-INFILT	I	ID	INFILTRATION DRIPPER	FAIR-MODERATE DEFECTS	3
225-036	225-045	12/28/2007	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-036	225-045	12/28/2007	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
225-036	225-045	12/28/2007	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
225-036	225-045	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	SD-PTREP	M	RPR	POINT REPAIR PIPE REPLACED	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	OM-RTSJ	R	RFJ	ROOTS FINE AT JOINT	EXCELLENT-MINOR DEFECTS	1
225-036	225-045	12/28/2007	OM-ROOTS	R	RFB	ROOTS FINE BARREL	GOOD DEFECTS-NOT DETERIORATING	2
225-036	225-045	12/28/2007	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
225-036	225-045	12/28/2007	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
225-036	225-045	12/28/2007	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-036	225-045	12/28/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-036	225-045	12/28/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-036	225-045	12/28/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-036	225-045	12/28/2007	CF-TAP	TB	TSA	TAP SADDLE ACTIVE	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
225-045	225-054	12/27/2007	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-045	225-054	12/27/2007	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-045	225-054	12/27/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-045	225-054	12/27/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-045	225-054	12/27/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-045	225-054	12/27/2007	OM-DEPA	DPA	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-045	225-054	12/27/2007	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
225-045	225-054	12/27/2007	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
225-045	225-054	12/27/2007	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
225-045	225-054	12/27/2007	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
225-045	225-054	12/27/2007	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
225-045	225-054	12/27/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	SD-SRFCH	M	SRIC	SURF ROUGHNESS INCREASE CHEM	EXCELLENT-MINOR DEFECTS	1
225-045	225-054	12/27/2007	SD-SRFME	M	SRIM	SURF ROUGHNESS INCREASE MECH	EXCELLENT-MINOR DEFECTS	1
225-045	225-054	12/27/2007	SD-SRFME	M	SRIM	SURF ROUGHNESS INCREASE MECH	EXCELLENT-MINOR DEFECTS	1
225-045	225-054	12/27/2007	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-045	225-054	12/27/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-045	225-054	12/27/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-054	225-064	12/28/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	SD-PIPEF	BP	B	BROKEN	IMMEDIATE ATTENTION	5
225-054	225-064	12/28/2007	SD-PIPEF	BP	BSV	BROKEN SOIL VISIBLE	IMMEDIATE ATTENTION	5
225-054	225-064	12/28/2007	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-054	225-064	12/28/2007	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table	Code	CODE	DESCRIPT	COMMENTS	CODE
225-054	225-064	12/28/2007	OM-DEPA	DPA	DAE	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-054	225-064	12/28/2007	OM-DEPA	DPA	DAE	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-054	225-064	12/28/2007	OM-DEPA	DPA	DAZ	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-054	225-064	12/28/2007	SD-FRACT	F	FL	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
225-054	225-064	12/28/2007	SD-FRACT	F	FL	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
225-054	225-064	12/28/2007	OM-INFILT	I	IW	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-054	225-064	12/28/2007	OM-INFILT	I	IW	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-054	225-064	12/28/2007	OM-INFILT	I	IW	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-054	225-064	12/28/2007	CF-LINE	A	LD	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
225-054	225-064	12/28/2007	MS-MISC	M	MCU	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
225-054	225-064	12/28/2007	MS-MISC	M	MGO	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	MS-MISC	M	MGO	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	MS-MISC	M	MGO	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	MS-MISC	M	MWL	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	MS-MISC	M	MWL	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	SD-SRF	M	SAV	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
225-054	225-064	12/28/2007	SD-SRFCH	M	SRIC	SRIC	SURF ROUGHNESS INCREASE CHEM	EXCELLENT-MINOR DEFECTS	1
225-054	225-064	12/28/2007	CF-TAP	TB	TBA	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	CF-TAP	TB	TBI	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
225-054	225-064	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	CF-TAP	TB	TFC	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-054	225-064	12/28/2007	CF-TAP	TB	TFD	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-064	225-072	12/28/2007	CF-ACCPCT	M	AMH	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	CF-ACCPCT	M	AMH	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	SD-CRACK	RC	CC	CC	CRACK CIRCUMFERENTIAL	EXCELLENT-MINOR DEFECTS	1
225-064	225-072	12/28/2007	OM-DEPA	DPA	DAZ	DAZ	DEPOSITS ATTACHED OTHER	GREATER THAN 30%	>30%
225-064	225-072	12/28/2007	OM-DEPA	DPA	DAZ	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-064	225-072	12/28/2007	OM-DEPA	DPA	DAZ	DAZ	DEPOSITS ATTACHED OTHER	1% - 10%	<=10%
225-064	225-072	12/28/2007	SD-FRACT	F	FC	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
225-064	225-072	12/28/2007	OM-INFILT	I	IW	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-064	225-072	12/28/2007	OM-INFILT	I	IW	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-064	225-072	12/28/2007	OM-INFILT	I	IW	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
225-064	225-072	12/28/2007	CF-INTSL	DS	ISGT	ISGT	INTRUDING GROUT	1% - 10%	<=10%
225-064	225-072	12/28/2007	CF-INTSL	DS	ISGT	ISGT	INTRUDING GROUT	1% - 10%	<=10%
225-064	225-072	12/28/2007	MS-MISC	M	MGO	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	MS-MISC	M	MGO	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	MS-MISC	M	MWL	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	OM-RTSJ	R	RFJ	RFJ	ROOTS FINE AT JOINT	EXCELLENT-MINOR DEFECTS	1
225-064	225-072	12/28/2007	OM-RTSJ	R	RFJ	RFJ	ROOTS FINE AT JOINT	EXCELLENT-MINOR DEFECTS	1
225-064	225-072	12/28/2007	OM-ROOTS	R	RFC	RFC	ROOTS FINE CONNECTION	EXCELLENT-MINOR DEFECTS	1
225-064	225-072	12/28/2007	SD-SRF	M	SAV	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
225-064	225-072	12/28/2007	CF-TAP	TB	TBA	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	CF-TAP	TB	TBI	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
225-064	225-072	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	CF-TAP	TB	TFA	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
225-064	225-072	12/28/2007	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
225-064	225-072	12/28/2007	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
225-064	225-072	12/28/2007	OM-RTSJ	M	VR	VERMIN RAT	GOOD DEFECTS-NOT DETERIORATING	2
225-067	225-074	9/30/2003	OS	OS	F	OVAL >10%	gasket showing pipe still ok no seperation SEE PHOTO #7404	
225-072	225-071	6/26/1997	L	L	A	LEFT ACTIVE		
225-072	225-071	6/26/1997	L	L	A	LEFT ACTIVE		
225-072	225-071	6/26/1997	L	L	D	RIGHT ACTIVE		
225-072	225-071	6/26/1997	L	L	E	RIGHT BISCUIT		
225-072	225-071	6/26/1997	L	L	E	RIGHT BISCUIT		
225-072	225-071	1/13/1999	D	D	C	DEBRIS - HEAVY	ONLY,CAMERA UNDERWATER JET CLEAN AND RETV	
225-072	225-071	5/4/1999	D	D	6	DEBRIS-HEAVY, REMOVE 6 MONTHS	ONLY,UNABLE TO PASS ROCK	
225-072	225-071	5/27/1999	DS	DS	R	AGGREGATE SHOWING IN PIPE		
225-072	225-071	5/27/1999	A	A	K	LINE UP & DOWN		
225-072	225-071	5/27/1999	A	A	K	LINE UP & DOWN		
225-072	225-071	5/27/1999	A	A	L	SAG IN LINE	FLAT LINE	
225-072	225-071	5/27/1999	A	A	L	SAG IN LINE	FLAT LINE	
225-072	225-071	6/29/1999	MJ	MS	B	MEDIUM OFFSET	unable to pass...will get flaggers and tv d/s	
225-106	225-107	10/25/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-106	225-107	10/25/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-106	225-107	10/25/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-107	225-090	10/25/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-107	225-090	10/25/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
225-107	225-090	10/25/2006	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
225-107	225-090	10/25/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
225-107	225-090	10/25/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
225-150	225-156	9/12/2000	L	L	A	LEFT ACTIVE		
225-150	225-156	9/12/2000	R	R	D	LIGHT, TV 10 YEARS		
225-150	225-156	9/12/2000	R	R	D	LIGHT, TV 10 YEARS		
225-150	225-156	9/12/2000	R	R	D	LIGHT, TV 10 YEARS		
225-150	225-156	9/12/2000	DS	DS	H	SML PIECE PIPE MSSNG		
225-157	225-158	7/14/2000	L	L	A	LEFT ACTIVE	piece of pipe from wye at crown missing. longt. crack into radial crack may need repair in near future. at this time not showing infiltration of debri .	
225-157	225-158	7/14/2000	L	L	A	LEFT ACTIVE	protruding stub into main line approx. one inch.	
225-160	225-161	8/24/2001	L	L	A	LEFT ACTIVE	connection to 11032 dayton looks fine	
225-160	225-161	8/24/2001	L	L	A	LEFT ACTIVE	small crack on wye n/r retv 10 yrs	
225-180	225-183	10/18/2000	DS	DS	K	BROKEN, REPAIR		
225-180	225-183	10/18/2000	DS	DS	K	BROKEN, REPAIR		
225-180	225-183	10/18/2000	R	R	G	LIGHT, CUT 3 YEARS		
225-209	225-210	11/20/1997	D	D	A	DEBRIS - LIGHT	TO 357' AFTER HYDROCUTTING	
225-209	225-210	11/20/1997	R	R	C	HEAVY ROOTS		
225-209	225-210	11/20/1997	R	R	C	HEAVY ROOTS		
225-209	225-210	11/20/1997	R	R	I	HEAVY, CUT 1 MONTH	TO 136'	
225-209	225-210	11/20/1997	R	R	A	LIGHT ROOTS	TO 206' AFTER HYDROCUTTING	
225-209	225-210	11/20/1997	R	R	A	LIGHT ROOTS		
225-209	225-210	11/20/1997	R	R	A	LIGHT ROOTS		
225-209	225-210	11/20/1997	R	R	A	LIGHT ROOTS		
225-209	225-210	11/20/1997	D	D	I	MIN DEP-HEAVY, REMOVE TODAY	CUT NOW	
225-209	225-210	11/20/1997	D	D	I	MIN DEP-HEAVY, REMOVE TODAY	TO ?	
225-209	225-210	11/20/1997	L	L	D	RIGHT ACTIVE		
225-209	225-210	11/20/1997	L	L	D	RIGHT ACTIVE		

SPU CCTV

UNITID	UNITID2	COMPDTTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
225-211	225-216	2/25/1997	D	D	L	GREASE-LIGHT	TO 50 (ON TOP AND SIDES) M/L HAD BEEN SURCHARGING	
225-214	225-215	6/28/2000	L	L	D	RIGHT ACTIVE	radial hairline crack on wye...no repair	
225-214	225-215	6/28/2000	L	L	D	RIGHT ACTIVE	radial hairline crack on wye...no repair	
225-215	225-216	6/15/2000	L	L	A	LEFT ACTIVE		
225-215	225-216	6/15/2000	R	R	H	MEDIUM, CUT 1 YEAR	SEE PHOTO #7209	
225-324	225-034	3/18/2003	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR	see o/s of pipe @ wye, no repair	
225-324	225-034	3/18/2003	L	L	A	LEFT ACTIVE		
225-324	225-034	3/18/2003	I	I	C	MEDIUM (1-5 GPM) REPAIR		
225-324	225-034	3/18/2003	L	L	D	RIGHT ACTIVE		
225-325	225-033	3/5/1999	D	D	B	DEBRIS - MEDIUM	called for jet cleaning and will retrv after debris is cleared	
225-325	225-033	3/5/1999	D	D	B	DEBRIS - MEDIUM	only...called for jet cleaning and will retrv after debris is cleared	
225-325	225-033	3/8/1999	D	D	7	DEBRIS-HEAVY, REMOVE TODAY	only...too much debris to pass...jet clean and retrv	
225-325	225-033	4/14/1999	A	A	C	BEGIN 1/2 PIPE WATER		
225-325	225-033	4/14/1999	A	A	C	BEGIN 1/2 PIPE WATER		
225-325	225-033	4/14/1999	A	A	D	END 1/2 PIPE WATER		
225-325	225-033	4/14/1999	A	A	D	END 1/2 PIPE WATER		
225-325	225-033	4/14/1999	A	A	K	LINE UP & DOWN	L OFFSETS RETV 5	
225-325	225-033	4/14/1999	A	A	K	LINE UP & DOWN	L OFFSETS RETV 5	
225-325	225-033	4/14/1999	L	L	D	RIGHT ACTIVE	L DEBRIS IN S/S	
225-325	225-033	4/14/1999	L	L	G	TOP ACTIVE	LOC OK	
225-325	225-033	4/14/1999	MJ	MS	G	WD JT 2" - 3"		
225-345	225-213	6/28/2000	L	L	N	DEFECTIVE CONNECTION	RE T/V 10 YRS.	
225-345	225-213	6/28/2000	R	R	F	LIGHT, CUT 5 YEARS		
225-345	225-213	6/28/2000	R	R	H	MEDIUM, CUT 1 YEAR		
231-011	224-279	2/18/2003	D	D	2	DEBRIS-LIGHT, TV 10 YEARS		
231-011	224-279	2/18/2003	D	D	3	DEBRIS-LIGHT, TV 5 YEARS		
231-011	224-279	2/18/2003	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
231-036	231-033	09/25/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-036	231-033	09/25/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-036	231-033	09/25/2005	SD-PIPEF	BP	BSV	BROKEN SOIL VISIBLE	IMMEDIATE ATTENTION	5
231-036	231-033	09/25/2005	SD-CRACK	RC	CC	CRACK CIRCUMFERENTIAL	EXCELLENT-MINOR DEFECTS	1
231-036	231-033	09/25/2005	SD-CRACK	RC	CC	CRACK CIRCUMFERENTIAL	EXCELLENT-MINOR DEFECTS	1
231-036	231-033	09/25/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-036	231-033	09/25/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-036	231-033	09/25/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-036	231-033	09/25/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-036	231-033	09/25/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-036	231-033	09/25/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-036	231-033	09/25/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-036	231-033	09/25/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-036	231-033	09/25/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-036	231-033	09/25/2005	OM-ROOTS	R	RFB	ROOTS FINE BARREL	GOOD DEFECTS-NOT DETERIORATING	2
231-036	231-033	09/25/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-036	231-033	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-036	231-033	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-036	231-033	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-036	231-033	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-036	231-033	09/25/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-037	231-036	09/25/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-037	231-036	09/25/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-037	231-036	09/25/2005	SD-CRACK	RC	CC	CRACK CIRCUMFERENTIAL	EXCELLENT-MINOR DEFECTS	1
231-037	231-036	09/25/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-037	231-036	09/25/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
231-037	231-036	09/25/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-037	231-036	09/25/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-037	231-036	09/25/2005	OM-ROOTS	R	RFL	ROOTS FINE LATERAL	EXCELLENT-MINOR DEFECTS	1
231-037	231-036	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-037	231-036	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-037	231-036	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-037	231-036	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-037	231-036	09/25/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-039	231-398	03/30/2005	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-039	231-398	03/30/2005	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-039	231-398	03/30/2005	SD-CRACK	RC	CL	CRACK LONGITUDINAL	GOOD DEFECTS-NOT DETERIORATING	2
231-039	231-398	03/30/2005	OM-DEPS	DP	DSZ	DEPOSITS SETTLED OTHER	11% - 20%	<=20%
231-039	231-398	03/30/2005	OM-DEPS	DP	DSZ	DEPOSITS SETTLED OTHER	1% - 10%	<=10%
231-039	231-398	03/30/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-039	231-398	03/30/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-039	231-398	03/30/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-039	231-398	03/30/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-039	231-398	03/30/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-039	231-398	03/30/2005	CF-INTSL	DS	ISGT	INTRUDING GROUT	1% - 10%	<=10%
231-039	231-398	03/30/2005	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
231-039	231-398	03/30/2005	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
231-039	231-398	03/30/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-039	231-398	03/30/2005	OM-RTSJ	R	RB	ROOTS BALL AT JOINT	POOR-SEVERE DEFECTS	4
231-039	231-398	03/30/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-039	231-398	03/30/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-039	231-398	03/30/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-039	231-398	03/30/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-039	231-398	03/30/2005	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
231-039	231-398	03/30/2005	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
231-039	231-398	03/30/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-039	231-398	03/30/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-039	231-398	03/30/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-039	231-398	03/30/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-039	231-398	03/30/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-045	224-311	2/19/2003	A	A	E	CAMERA UNDERWATER	sharpe dive downward	
231-045	224-311	2/19/2003	A	A	E	CAMERA UNDERWATER	sharpe dive downward	
231-045	224-311	2/19/2003	A	A	P	CHANGE IN GRADE	sharp dive downward	
231-045	224-311	2/19/2003	A	A	P	CHANGE IN GRADE	sharp dive downward	
231-045	224-311	2/19/2003	D	D	5	DEBRIS-MEDIUM, REMOVE 1 YEAR		
231-045	224-311	2/19/2003	D	D	O	GREASE-HEAVY, REMOVE 3 MONTHS		
231-045	224-311	2/19/2003	D	D	P	GREASE-HEAVY, REMOVE TODAY		
231-045	224-311	2/19/2003	A	A	L	SAG IN LINE	UNDER WATER AT 258' SAG ALL THE WAY TO THE D/S M/H 231-045	
231-045	224-311	2/19/2003	A	A	L	SAG IN LINE	UNDER WATER AT 258' SAG ALL THE WAY TO THE D/S M/H 231-045	
231-045	224-311	05/21/2006	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-045	224-311	05/21/2006	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-045	224-311	05/21/2006	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-045	224-311	05/21/2006	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-045	224-311	05/21/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-045	224-311	05/21/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-045	224-311	05/21/2006	MS-MISC	M	MWLS	MISC WATER LEVEL INCREASE	WATER LEVEL 1% - 30%	WL<=30
231-070	231-071	01/25/2008	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-070	231-071	01/25/2008	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-070	231-071	01/25/2008	OM-DEPS	DP	DSZ	DEPOSITS SETTLED OTHER	1% - 10%	<=10%
231-070	231-071	01/25/2008	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-070	231-071	01/25/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
231-070	231-071	01/25/2008	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
231-070	231-071	01/25/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-070	231-071	01/25/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
231-070	231-071	02/05/2008	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-070	231-071	02/05/2008	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-070	231-071	02/05/2008	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-070	231-071	02/05/2008	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
231-070	231-071	02/05/2008	SD-JOINT	MS	JOM	JOINT OFFSET MEDIUM =<1.5	EXCELLENT-MINOR DEFECTS	1
231-070	231-071	02/05/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3
231-070	231-071	02/05/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-070	231-071	02/05/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-ACCEPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-081	231-076	01/08/2008	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-081	231-076	01/08/2008	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-081	231-076	01/08/2008	OM-INFILT	I	ID	INFILTRATION DRIPPER	FAIR-MODERATE DEFECTS	3
231-081	231-076	01/08/2008	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
231-081	231-076	01/08/2008	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
231-081	231-076	01/08/2008	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
231-081	231-076	01/08/2008	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
231-081	231-076	01/08/2008	CF-LINE	A	LD	LINE DOWN	LINE 1 - 10 DEGREES	L<=10D
231-081	231-076	01/08/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	SD-SRF	M	SAV	SURF AGGREGATE VISIBLE	FAIR-MODERATE DEFECTS	3

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-081	231-076	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-081	231-076	01/08/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-081	231-076	01/08/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-081	231-076	01/08/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	CF-ACCPt	M	ACO	ACCESS POINT CLEANOUT	NOT APPLICABLE	N/A
231-083	231-082	03/16/2005	CF-ACCPt	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-083	231-082	03/16/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-083	231-082	03/16/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-083	231-082	03/16/2005	OM-INFILT	I	ID	INFILTRATION DRIPPER	FAIR-MODERATE DEFECTS	3
231-083	231-082	03/16/2005	OM-INFILT	I	IW	INFILTRATION WEEPER	FAIR-MODERATE DEFECTS	3
231-083	231-082	03/16/2005	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	CF-LINE	A	LD	LINE DOWN	GOOD DEFECTS-NOT DETERIORATING	2
231-083	231-082	03/16/2005	CF-LINE	A	LLU	LINE LEFT/UP	LINE 1 - 10 DEGREES	L<=10D
231-083	231-082	03/16/2005	MS-MISC	M	MWL	MISC WATER LEVEL	LINE 1 - 10 DEGREES	L<=10D
231-083	231-082	03/16/2005	OM-ROOTS	R	RF	ROOTS FINE	NOT APPLICABLE	N/A
231-083	231-082	03/16/2005	SD-SRFNE	M	SAVZ	SURF AGGREG VISIBLE NOT EV	EXCELLENT-MINOR DEFECTS	1
231-083	231-082	03/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	FAIR-MODERATE DEFECTS	3
231-083	231-082	03/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-083	231-082	03/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-083	231-082	03/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-083	231-082	03/16/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-083	231-082	03/16/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-083	231-082	03/16/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-087	231-403	08/18/2005	CF-ACCPt	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-087	231-403	08/18/2005	CF-ACCPt	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-087	231-403	08/18/2005	SD-CRACK	RC	CM	CRACK MULTIPLE	FAIR-MODERATE DEFECTS	3
231-087	231-403	08/18/2005	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-087	231-403	08/18/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-087	231-403	08/18/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-087	231-403	08/18/2005	OM-ROOTS	R	RBL	ROOTS BALL LATERAL	POOR-SEVERE DEFECTS	4
231-087	231-403	08/18/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-087	231-403	08/18/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-087	231-403	08/18/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-087	231-403	08/18/2005	OM-ROOTS	R	RML	ROOTS MEDIUM LATERAL	FAIR-MODERATE DEFECTS	3
231-087	231-403	08/18/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-087	231-403	08/18/2005	CF-TAP	TB	TBC	TAP BREAK-IN/HAMMER CAPPED	GOOD DEFECTS-NOT DETERIORATING	2
231-087	231-403	08/18/2005	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
231-087	231-403	08/18/2005	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
231-087	231-403	08/18/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-087	231-403	08/18/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-087	231-403	08/18/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-087	231-403	08/18/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-097	231-081	01/08/2008	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
231-097	231-081	01/08/2008	OM-INFILT	I	ID	INFILTRATION DRIPPER	FAIR-MODERATE DEFECTS	3
231-097	231-081	01/08/2008	OM-INFILT	I	ID	INFILTRATION DRIPPER	FAIR-MODERATE DEFECTS	3
231-097	231-081	01/08/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	OM-RTSJ	R	RFJ	ROOTS FINE AT JOINT	EXCELLENT-MINOR DEFECTS	1
231-097	231-081	01/08/2008	OM-RTSJ	R	RFJ	ROOTS FINE AT JOINT	EXCELLENT-MINOR DEFECTS	1
231-097	231-081	01/08/2008	SD-SRFCH	M	SRIC	SURF ROUGHNESS INCREASE CHEM	EXCELLENT-MINOR DEFECTS	1
231-097	231-081	01/08/2008	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
231-097	231-081	01/08/2008	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
231-097	231-081	01/08/2008	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
231-097	231-081	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-097	231-081	01/08/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-097	231-081	01/08/2008	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-122	231-037	09/25/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-122	231-037	09/25/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-122	231-037	09/25/2005	SD-CRACK	RC	CC	CRACK CIRCUMFERENTIAL	EXCELLENT-MINOR DEFECTS	1
231-122	231-037	09/25/2005	SD-CRACK	RC	CC	CRACK CIRCUMFERENTIAL	EXCELLENT-MINOR DEFECTS	1
231-122	231-037	09/25/2005	OM-DEPA	DPA	DAE	DEPOSITS ATTACHED ENCRUSTATION	1% - 10%	<=10%
231-122	231-037	09/25/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3

SPU CCTV

UNITID	UNITID2	COMPDTIM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-122	231-037	09/25/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-122	231-037	09/25/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-122	231-037	09/25/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-122	231-037	09/25/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-122	231-037	09/25/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-122	231-037	09/25/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-122	231-037	09/25/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-122	231-037	09/25/2005	OM-ROOTS	R	RFB	ROOTS FINE BARREL	GOOD DEFECTS-NOT DETERIORATING	2
231-122	231-037	09/25/2005	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
231-122	231-037	09/25/2005	SD-SRFCH	M	SAPC	SURF AGGREGATE PROJECTING CHEM	FAIR-MODERATE DEFECTS	3
231-122	231-037	09/25/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-122	231-037	09/25/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-122	231-037	09/25/2005	CF-TAP	TB	TBI	TAP BREAK-IN/HAMMER INTRUDING	1% - 10%	<=10%
231-122	231-037	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-122	231-037	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-122	231-037	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-122	231-037	09/25/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-168	231-169	08/17/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	OM-ROOTS	R	RBL	ROOTS BALL LATERAL	POOR-SEVERE DEFECTS	4
231-168	231-169	08/17/2005	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-168	231-169	08/17/2005	OM-ROOTS	R	RFC	ROOTS FINE CONNECTION	EXCELLENT-MINOR DEFECTS	1
231-168	231-169	08/17/2005	OM-ROOTS	R	RFL	ROOTS FINE LATERAL	EXCELLENT-MINOR DEFECTS	1
231-168	231-169	08/17/2005	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
231-168	231-169	08/17/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/17/2005	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-168	231-169	02/13/2006	OM-DEPS	DP	DSZ	DEPOSITS SETTLED OTHER	1% - 10%	<=10%
231-168	231-169	02/13/2006	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
231-168	231-169	02/13/2006	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-168	231-169	02/13/2006	OM-ROOTS	R	RFL	ROOTS FINE LATERAL	EXCELLENT-MINOR DEFECTS	1
231-168	231-169	02/13/2006	OM-ROOTS	R	RML	ROOTS MEDIUM LATERAL	FAIR-MODERATE DEFECTS	3
231-168	231-169	02/13/2006	SD-SRFCH	M	SAVC	SURF AGGREGATE VISIBLE CHEM	FAIR-MODERATE DEFECTS	3

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-168	231-169	02/13/2006	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	02/13/2006	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	CF-ACCPCT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	OM-DEPA	DPA	DAR	DEPOSITS ATTACHED RAGGING	1% - 10%	<=10%
231-168	231-169	08/07/2006	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	OM-ROOTS	R	RBC	ROOTS BALL CONNECTION	POOR-SEVERE DEFECTS	4
231-168	231-169	08/07/2006	OM-ROOTS	R	RBL	ROOTS BALL LATERAL	POOR-SEVERE DEFECTS	4
231-168	231-169	08/07/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-168	231-169	08/07/2006	OM-RTSJT	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
231-168	231-169	08/07/2006	SD-SRFCH	M	SAMC	SURF AGGREGATE MISSING CHEM	POOR-SEVERE DEFECTS	4
231-168	231-169	08/07/2006	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-168	231-169	08/07/2006	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-168	231-169	08/07/2006	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-184	231-195	09/25/2005	CF-ACCPCT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-184	231-195	09/25/2005	CF-ACCPCT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-184	231-195	09/25/2005	OM-INFILT	I	IW	INFILTRATION WEEPER	GOOD DEFECTS-NOT DETERIORATING	2
231-184	231-195	09/25/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-184	231-195	09/25/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-184	231-195	09/25/2005	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-219	231-083	03/16/2005	CF-ACCPCT	M	ACO	ACCESS POINT CLEANOUT	NOT APPLICABLE	N/A
231-219	231-083	03/16/2005	SD-COLL	CS	XP	COLLAPSE PIPE	IMMEDIATE ATTENTION	5
231-219	231-083	03/16/2005	SD-FRACT	F	FL	FRACTURE LONGITUDINAL	FAIR-MODERATE DEFECTS	3
231-219	231-083	03/16/2005	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
231-219	231-083	03/16/2005	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
231-219	231-083	03/16/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-219	231-083	03/16/2005	SD-SRFNE	M	SAVZ	SURF AGGREG VISIBLE NOT EV	FAIR-MODERATE DEFECTS	3
231-280	231-435	09/25/2005	CF-ACCPCT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-ACCPCT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	SD-PTREP	M	RPR	POINT REPAIR PIPE REPLACED	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-280	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-ACCPCT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-ACCPCT	M	ATC	ACCESS PT TEE CONNECTION	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	OM-DEPS	DP	DSGV	DEPOSITS SETTLED GRAVEL	1% - 10%	<=10%
231-320	231-321	12/26/2005	OM-DEPS	DP	DSGV	DEPOSITS SETTLED GRAVEL	1% - 10%	<=10%
231-320	231-321	12/26/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-320	231-321	12/26/2005	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-320	231-321	12/26/2005	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
231-320	231-321	12/26/2005	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-320	231-321	12/26/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TBA	TAP BREAK-IN/HAMMER ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-320	231-321	12/26/2005	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-366	231-372	05/11/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-366	231-372	05/11/2006	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	1% - 10%	<=10%
231-366	231-372	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
231-366	231-372	05/11/2006	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
231-366	231-372	05/11/2006	OM-ROOTS	R	RMC	ROOTS MEDIUM CONNECTION	FAIR-MODERATE DEFECTS	3
231-366	231-372	05/11/2006	OM-ROOTS	R	RMC	ROOTS MEDIUM CONNECTION	FAIR-MODERATE DEFECTS	3
231-366	231-372	05/11/2006	OM-ROOTS	R	RMC	ROOTS MEDIUM CONNECTION	FAIR-MODERATE DEFECTS	3
231-366	231-372	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-366	231-372	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-372	231-381	05/11/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-372	231-381	05/11/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-372	231-381	05/11/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-372	231-381	05/11/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-372	231-381	05/11/2006	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	1% - 10%	<=10%
231-372	231-381	05/11/2006	SD-FRACT	F	FC	FRACTURE CIRCUMFERENTIAL	GOOD DEFECTS-NOT DETERIORATING	2
231-372	231-381	05/11/2006	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-372	231-381	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	OM-RTSJ	R	RB	ROOTS BALL AT JOINT	POOR-SEVERE DEFECTS	4
231-372	231-381	05/11/2006	OM-ROOTS	R	RBC	ROOTS BALL CONNECTION	POOR-SEVERE DEFECTS	4
231-372	231-381	05/11/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-372	231-381	05/11/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-372	231-381	05/11/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-372	231-381	05/11/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-372	231-381	05/11/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-372	231-381	05/11/2006	OM-ROOTS	R	RF	ROOTS FINE	EXCELLENT-MINOR DEFECTS	1
231-372	231-381	05/11/2006	OM-RTSJ	R	RM	ROOTS MEDIUM AT JOINT	FAIR-MODERATE DEFECTS	3
231-372	231-381	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-372	231-381	05/11/2006	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-386	231-385	05/08/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-386	231-385	05/08/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-386	231-385	05/08/2006	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	11% - 20%	<=20%
231-386	231-385	05/08/2006	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	GREATER THAN 30%	>30%
231-386	231-385	05/08/2006	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	1% - 10%	<=10%
231-386	231-385	05/08/2006	OM-DEPS	DP	DSF	DEPOSITS SETTLED FINE	GREATER THAN 30%	>30%
231-386	231-385	05/08/2006	SD-FRACT	F	FM	FRACTURE MULTIPLE	POOR-SEVERE DEFECTS	4
231-386	231-385	05/08/2006	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
231-386	231-385	05/08/2006	MS-MISC	M	MMC	MISC MATERIAL CHANGE	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	MS-MISC	M	MMC	MISC MATERIAL CHANGE	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	SD-PTREP	M	RPR	POINT REPAIR PIPE REPLACED	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	CF-TAP	TB	TFC	TAP FACTORY MADE CAPPED	NOT APPLICABLE	N/A
231-386	231-385	05/08/2006	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-386	231-385	05/08/2006	CF-TAP	TB	TFD	TAP FACTORY MADE DEFECT	GOOD DEFECTS-NOT DETERIORATING	2
231-402	231-138	01/24/2008	CF-ACCP	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-402	231-138	01/24/2008	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-402	231-138	01/24/2008	OM-DEPA	DPA	DAGS	DEPOSITS ATTACHED GREASE	1% - 10%	<=10%
231-402	231-138	01/24/2008	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
231-402	231-138	01/24/2008	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
231-402	231-138	01/24/2008	MS-MISC	M	MGO	MISC GENERAL OBSERVATION	NOT APPLICABLE	N/A
231-402	231-138	01/24/2008	MS-MISC	M	MSA	MISC SURVEY ABANDONED	NOT APPLICABLE	N/A
231-402	231-138	01/24/2008	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A

SPU CCTV

UNITID	UNITID2	COMPDTM	DEFECTTYPE	Table Code	CODE	DESCRIPT	COMMENTS	CODE
231-402	231-138	01/24/2008	OM-OBST	M	OBZ	OBSTACLES OTHER	1% - 10%	<=10%
231-402	231-138	01/24/2008	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-437	231-435	09/25/2005	CF-ACCPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-437	231-435	09/25/2005	CF-ACCPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-437	231-435	09/25/2005	OM-INFILT	I	IR	INFILTRATION RUNNER	POOR-SEVERE DEFECTS	4
231-437	231-435	09/25/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-437	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-437	231-435	09/25/2005	CF-TAP	TB	TFA	TAP FACTORY MADE ACTIVE	NOT APPLICABLE	N/A
231-438	231-437	09/25/2005	CF-ACCPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-438	231-437	09/25/2005	CF-ACCPT	M	AMH	ACCESS POINT MAINTENANCE HOLE	NOT APPLICABLE	N/A
231-438	231-437	09/25/2005	OM-INFILT	I	ID	INFILTRATION DRIPPER	FAIR-MODERATE DEFECTS	3
231-438	231-437	09/25/2005	MS-MISC	M	MCU	MISC CAMERA UNDERWATER	POOR-SEVERE DEFECTS	4
231-438	231-437	09/25/2005	MS-MISC	M	MWL	MISC WATER LEVEL	NOT APPLICABLE	N/A
231-438	231-437	09/25/2005	MS-MISC	M	MWLS	MISC WATER LEVEL INCREASE	WATER LEVEL 1% - 30%	WL<=30

APPENDIX C

Additional CCTV Conducted in November 2008

Additional CCTV Conducted in November 2008

Street	Up MH	EQ #	Dn MH	Size	Q Struc	Q O&M	Overall Pipe Rating
12th Ave NW	218-070	615332	218-096	8	5132	2100	17
12th Ave NW	218-070	615332	218-096	8	4136	2500	34
12th Ave NW	218-096	615392	218-097	8	4231	2600	25
Blakley Pl Nw	218-134	615482	218-135	8	3200	0	6
NW Blakley ct	218-136	615537	218-135	8	0	2400	8
NW Blakley ct	218-136	615610	218-195	8	0	2400	8
2nd Ave NW	218-181	615744	218-180	8	4122	3125	23
Blakley Pl Nw	218-195	615755	218-142	8	0	2600	12
Phinney Ave N	219-237	615592	219-241	8	5141	2A00	37
N 130th St	219-243	615458	219-237	8	0	2100	2
12th Ave NW	224-014	616443	224-019	10	5100	4131	18
Dayton Ave N	224-014	616550	225-227	8	2100	4125	16
nw 122nd st	224-015	616350	224-014	8	4100	4132	50
nw 122nd st	224-016	616354	224-015	8	0	4131	39
12th Ave NW	224-019	616542	224-025	10	0	5245	61
11th Ave NW	224-020	616408	224-016	8	0	2700	14
11th Ave NW	224-022	616411	224-020	8	1100	352B	48
10th ave nw	224-024	616537	224-022	8	2211	5141	45
12th ave nw	224-025	616537	224-067	10	0	5245	75
12th ave nw	224-025	616636	224-067	10	0	0	0
7th ave nw	224-037	616373	224-038	8	5141	2C00	54
7th ave nw	224-037	616373	224-038	8	1100	4131	30
7th ave nw	224-038	616509	224-039	8	2500	422C	56
7th ave nw	224-039	616654	224-417	8	3323	4133	56
6th ave nw	224-041	616475	224-042	8	3222	2200	15
nw 120thst	224-042	616609	224-104	8	3121	2C00	49
4th ave nw	224-044	616519	224-045	8	4133	2400	25
4th ave nw	224-045	616656	224-105	8	3122	522C	59
Palatine ave N	224-058	616535	224-059	8	5134	3122	26
Palatine ave N	224-058	616535	224-059	8	5131	5129	39
Palatine ave N	224-059	616678	224-111	8	4131	412A	35
NW 116th St	224-081	617140	224-082	8	0	2200	4
NW 116th St	224-082	617188	224-154	8	0	4331	15
nw 120th st	224-103	616656	224-418	8	1100	4129	23
nw120th st	224-103	616659	224-418	8	2100	2A00	24
nw 120thst	224-104	616617	224-103	8	5100	4123	15
1st Ave NW	224-144	617064	224-145	8	5100	5122	14
1st Ave NW	224-145	617171	224-201	8	2211	4131	26
NW 116th St	224-154	617214	224-155	8	0	0	0
1st NW	224-201	617212	224-202	6	0	0	0
1st NW	224-201	617172	224-197	8	0	2A00	20
1st NW	224-202	617365	224-203	6	0	2100	2
1st NW	224-203	617487	224-240	8	5100	5128	26
NW 105th St	224-318	618528	224-317	10	0	3124	11
NW 105th St	224-326	618535	224-318	10	0	2400	8
2nd Ave NW	224-329	618546	224-331	8	0	342A	32
NW 105st	224-330	618543	224-326	10	0	2700	14
nw 105th st	224-331	618547	224-330	10	0	5131	32

Additional CCTV Conducted in November 2008

Street	Up MH	EQ #	Dn MH	Size	Q Struc	Q O&M	Overall Pipe Rating
NW 105th St	224-337	618552	224-331	10	5100	422D	65
NW 105th St	224-341	618557	224-337	10	5111	2B00	32
NW 105th St	224-344	618561	224-341	10	3100	2100	5
nw 120th st	224-418	7152089	224-417	15	0	2100	2
Dayton Ave N	225-002	616213	225-013	8	3122	312B	40
Dayton Ave N	225-013	616402	225-014	8	5100	4132	41
Dayton Ave N	225-014	616550	225-027	8	5241	412B	49
Dayton Ave N	225-027	616689	225-036	8	5131	412A	38
N 120thSt	225-034	616807	225-044	8	5121	3124	18
Dayton Ave N	225-036	616814	225-045	8	2200	3228	26
Phinney Ave N	225-044	616931	225-053	8	4132	2900	30
Dayton Ave N	225-045	616938	225-054	8	2211	4232	34
Dayton Ave N	225-054	617078	225-064	8	2100	2D11	49
Dayton Ave N	225-161	617992	225-163	8	4132	312A	34
Dayton ave nw	225-161	617992	225-163	8	4222	2900	30
Dayton ave nw	225-164	618318	225-166	8	4100	2700	18
Dayton ave nw	225-166	618576	232-003	8	4132	2400	20
Freemont ave n	225-196	617638	225-197	8	5233	2A00	48
Fremont Ave N	225-197	617768	225-204	8	5141	2A11	38
Fremont Ave N	225-197	617768	225-204	8	0	2400	8
Fremont Ave N	225-204	617920	225-205	8	5132	2211	18

APPENDIX D

Smoke Testing Results

MEMORANDUM #12 -DRAFT

DATE: August 28, 2008

TO: Frank McDonald, Seattle Public Utilities (SPU)

FROM: Robert McCadden, EIT
Patty Buchanan, PE

RE: Broadview Neighborhood Inflow Assessment
SPU Sewer Capacity
SvR Project No. 07024 Task 008

Per your request, SvR Design Company (SvR) has evaluated the sanitary sewer and sanitary side sewer lines located in the Broadview Neighborhood for sources of inflow. The project area is approximately 406 acres and is bounded by N.W. 131st Street on the north; N. 105th Street on the south, Fremont Avenue N. on the east, and 3rd Avenue N.W. on the west (see Figure 1).

Using videos of the smoke testing conducted by Bravo Environmental, SvR engineers estimated tributary areas for each source of inflow. Once tributary areas were identified, they were entered into the City of Seattle Modified Santa Barbara Urban Hydrograph (SBUH) Spreadsheet to determine peak flowrates from the tributary areas for the 6-month, 25-year, and 100-year storm events.

An in-depth summary of the smoke testing, including a map and videos provided by Bravo Environmental, was previously submitted to SPU in a transmittal addressed to Jeff Williams, dated June 5, 2008.

Civil Engineering
Landscape Architecture
Environmental Restoration
Planning

1205 Second Avenue
Suite 200
Seattle, WA 98101

Based on the results of the smoke testing and COS GIS data, stormwater runoff from an estimated 191,001 square feet (4.38 ac) is directly connected to the sanitary sewer system. The cumulative runoff flowrates from these areas for the 6-month, 25-year, and 100-year storm events are as follows: 1.77cfs, 5.71cfs, and 7.06cfs. A detailed breakdown of the estimated inflow per sewer main service area is included in Table 1.

Memorandum #12 - Broadview Neighborhood Inflow Assessment DRAFT
 SPU Sewer Capacity
 August 28, 2008
 Page 2 of 3

Table 1-Estimated inflow rates by sewer main service area

Avenue/ Street	South Extent	North Extent	Inflow Area (SF)	Inflow Area (AC)	6mo flow (cfs)	25yr flow (cfs)	100yr flow (cfs)
Fremont N	N 105th Street	115th Street	3,847	0.088	0.04	0.11	0.14
Evanston N	N 105th Street	115th Street	10,664	0.245	0.1	0.32	0.4
Evanston N	N 115th Street	125th Street	4,905	0.113	0.05	0.15	0.18
Dayton N	N 105th Street	115th Street	9,231	0.212	0.09	0.28	0.34
Dayton N	N 115th Street	130th Street	27,292	0.627	0.25	0.82	1.01
Phinney N	N 105th Street	115th Street	7,496	0.172	0.07	0.22	0.28
Phinney N	N 115th Street	130th Street	21,169	0.486	0.2	0.63	0.78
Greenwood N	N 105th Street	115th Street	14,539	0.334	0.14	0.44	0.54
Greenwood N	N 115th Street	130th Street	27,751	0.637	0.26	0.83	1.03
Palatine N	N 105th Street	115th Street	12,908	0.296	0.12	0.39	0.48
Palatine N	N 115th Street	127th Street	10,634	0.244	0.1	0.32	0.39
First NW	N 105th Street	115th Street	3,065	0.070	0.03	0.09	0.11
First NW	N 115th Street	130th Street	5,582	0.128	0.05	0.17	0.21
Second NW	N 105th Street	115th Street	9,025	0.207	0.08	0.27	0.33
Second NW	N 115th Street	130th Street	18,423	0.423	0.17	0.55	0.68
Third NW	N 105th Street	112th Street	1,915	0.044	0.02	0.06	0.07
Third NW	N 113th Street	117th Street	167	0.004	-	0.01	0.01
Subtotal			188,613		1.77	5.66	6.98
Street	East Extent	West Extent	Inflow Area (SF)	Inflow Area (AC)	6mo flow (cfs)	25yr flow (cfs)	100yr flow (cfs)
N 105th	Fremont N	Third	1,260	0.029	0.01	0.04	0.05
N 115th	Fremont N	Third	0	0	0	0	0
Subtotal			1,260		0.01	0.04	0.05
Areas connected to sewer mains outside of the study area:				1,128			
Total			191,001		1.78	5.7	7.03

The main sources of inflow into the sanitary system that were observed during the smoke testing are as follows: building downspout connections, private catch basin connections, damaged side sewers, and uncapped side sewer cleanouts. For buildings with downspouts connected to the sanitary system, it was assumed that half the runoff from the roof area was being collected by the first downspout (connected to the sanitary sewer), and that the other half was being collected by a second downspout connection. For calculating runoff flowrates, the conservative assumptions that all areas are impervious and a 10 minute time of concentration were made.

Some possible sources of inflow that may not be detected by smoke testing include:

- Storm drain or downspout lines with sags or negative slopes – pipes with sags or negative slopes could go undetected if the low points have enough standing water in them.
- Downspout lines that are clogged.
- Storm drainage structures with downturned elbows – Such structures may not be detected if the downturned end of the elbow is submerged.
- Cracks in sewer lines located below the ground water table.

If you have any questions regarding this memo or the attached data please contact Robert McCadden (robertm@svrdesign.com) or Patty Buchanan (pattyb@svrdesign.com).

Attachments:

Broadview Smoke Testing Map
6-month, 25-year, and 100-year COS Storm Event Spreadsheets for the Project area

F:\07\07024 Sewer Capacity Performance Management\Design\Task 8 I-I Assessment and Planning\I-I Broadview Neighborhood 1-28-08\Memo and Documentation\Memo - Broadview.doc



DESIGN COMPANY

Seattle Public Utilities**Project Name Broadview Neighborhood I&I**

SvR Project No. 07024

Date: 6/17/2008

By: RBM

Santa Barbara Urban Hydrograph Method (SBUH)

Note: SCS Type 1A or Seattle Modified

Rainfall Distribution: **Seattle Modified**

Storm Event	6 month	Pt =	1.075 inches	Qpeak =	1.77 cfs
Pervious Area	0.0000 acre	CN =	81	Sp =	2.35
Impervious Area	4.3850 acre	CN =	98	Si =	0.20
Total Area	4.3850 acre	Tc =	5 minutes		
		dt =	10 minutes	w =	0.50

Time Increment	Time (minutes)	Rainfall Distribution 2 (fraction)	Incremental Rainfall (inches)	Accumulated Rainfall (inches)	Pervious Runoff (inches)	Pervious Runoff (inches)	Impervious Runoff (inches)	Impervious Runoff (inches)	Total Runoff (inches)	Instant Flowrate (cfs)	Design Flowrate (cfs)
1	2	3	4	5	6	7	8	9	10	11	12
0	0	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00
1	10	0.0040	0.0043	0.004	0.000	0.000	0.000	0.000	0.000	0.00	0.00
2	20	0.0040	0.0043	0.009	0.000	0.000	0.000	0.000	0.000	0.00	0.00
3	30	0.0040	0.0043	0.013	0.000	0.000	0.000	0.000	0.000	0.00	0.00
4	40	0.0040	0.0043	0.017	0.000	0.000	0.000	0.000	0.000	0.00	0.00
5	50	0.0040	0.0043	0.022	0.000	0.000	0.000	0.000	0.000	0.00	0.00
6	60	0.0040	0.0043	0.026	0.000	0.000	0.000	0.000	0.000	0.00	0.00
7	70	0.0040	0.0043	0.030	0.000	0.000	0.000	0.000	0.000	0.00	0.00
8	80	0.0040	0.0043	0.034	0.000	0.000	0.000	0.000	0.000	0.00	0.00
9	90	0.0040	0.0043	0.039	0.000	0.000	0.000	0.000	0.000	0.00	0.00
10	100	0.0040	0.0043	0.043	0.000	0.000	0.000	0.000	0.000	0.00	0.00
11	110	0.0050	0.0054	0.048	0.000	0.000	0.000	0.000	0.000	0.01	0.00
12	120	0.0050	0.0054	0.054	0.000	0.000	0.001	0.001	0.001	0.01	0.01
13	130	0.0050	0.0054	0.059	0.000	0.000	0.002	0.001	0.001	0.02	0.02
14	140	0.0050	0.0054	0.065	0.000	0.000	0.003	0.001	0.001	0.03	0.02
15	150	0.0050	0.0054	0.070	0.000	0.000	0.004	0.001	0.001	0.03	0.03
16	160	0.0050	0.0054	0.075	0.000	0.000	0.005	0.001	0.001	0.04	0.03
17	170	0.0060	0.0065	0.082	0.000	0.000	0.007	0.002	0.002	0.05	0.04
18	180	0.0060	0.0065	0.088	0.000	0.000	0.009	0.002	0.002	0.06	0.05
19	190	0.0060	0.0065	0.095	0.000	0.000	0.012	0.002	0.002	0.06	0.06
20	200	0.0060	0.0065	0.101	0.000	0.000	0.014	0.003	0.003	0.07	0.07
21	210	0.0060	0.0065	0.108	0.000	0.000	0.017	0.003	0.003	0.07	0.07
22	220	0.0060	0.0065	0.114	0.000	0.000	0.020	0.003	0.003	0.08	0.08
23	230	0.0070	0.0075	0.121	0.000	0.000	0.024	0.004	0.004	0.10	0.09
24	240	0.0070	0.0075	0.129	0.000	0.000	0.027	0.004	0.004	0.10	0.10
25	250	0.0070	0.0075	0.137	0.000	0.000	0.031	0.004	0.004	0.11	0.10
26	260	0.0070	0.0075	0.144	0.000	0.000	0.036	0.004	0.004	0.11	0.11
27	270	0.0070	0.0075	0.152	0.000	0.000	0.040	0.004	0.004	0.12	0.11
28	280	0.0070	0.0075	0.159	0.000	0.000	0.044	0.004	0.004	0.12	0.12
29	290	0.0082	0.0088	0.168	0.000	0.000	0.050	0.005	0.005	0.14	0.13
30	300	0.0082	0.0088	0.177	0.000	0.000	0.056	0.006	0.006	0.15	0.15
31	310	0.0082	0.0088	0.186	0.000	0.000	0.061	0.006	0.006	0.15	0.15
32	320	0.0082	0.0088	0.194	0.000	0.000	0.067	0.006	0.006	0.16	0.16
33	330	0.0082	0.0088	0.203	0.000	0.000	0.073	0.006	0.006	0.16	0.16
34	340	0.0082	0.0088	0.212	0.000	0.000	0.080	0.006	0.006	0.16	0.16
35	350	0.0095	0.0102	0.222	0.000	0.000	0.087	0.007	0.007	0.19	0.18
36	360	0.0095	0.0102	0.232	0.000	0.000	0.094	0.007	0.007	0.20	0.20
37	370	0.0095	0.0102	0.243	0.000	0.000	0.102	0.008	0.008	0.20	0.20
38	380	0.0095	0.0102	0.253	0.000	0.000	0.110	0.008	0.008	0.21	0.20
39	390	0.0095	0.0102	0.263	0.000	0.000	0.118	0.008	0.008	0.21	0.21
40	400	0.0095	0.0102	0.273	0.000	0.000	0.126	0.008	0.008	0.21	0.21
41	410	0.0133	0.0143	0.288	0.000	0.000	0.137	0.011	0.011	0.30	0.26
42	420	0.0133	0.0143	0.302	0.000	0.000	0.148	0.012	0.012	0.31	0.30

43	430	0.0133	0.0143	0.316	0.000	0.000	0.160	0.012	0.012	0.31	0.31
44	440	0.0180	0.0194	0.336	0.000	0.000	0.176	0.016	0.016	0.43	0.37
45	450	0.0180	0.0194	0.355	0.000	0.000	0.193	0.016	0.016	0.43	0.43
46	460	0.0416	0.0447	0.400	0.000	0.000	0.231	0.039	0.039	1.02	0.73
47	470	0.0992	0.1066	0.506	0.001	0.001	0.326	0.095	0.095	2.53	1.77
48	480	0.0270	0.0290	0.535	0.002	0.001	0.353	0.027	0.027	0.70	1.61
49	490	0.0180	0.0194	0.555	0.003	0.001	0.371	0.018	0.018	0.47	0.59
50	500	0.0134	0.0144	0.569	0.004	0.001	0.384	0.013	0.013	0.35	0.41
51	510	0.0134	0.0144	0.583	0.005	0.001	0.397	0.013	0.013	0.35	0.35
52	520	0.0134	0.0144	0.598	0.007	0.001	0.411	0.013	0.013	0.36	0.35
53	530	0.0088	0.0095	0.607	0.008	0.001	0.419	0.009	0.009	0.23	0.29
54	540	0.0088	0.0095	0.617	0.009	0.001	0.428	0.009	0.009	0.23	0.23
55	550	0.0088	0.0095	0.626	0.010	0.001	0.437	0.009	0.009	0.23	0.23
56	560	0.0088	0.0095	0.636	0.011	0.001	0.446	0.009	0.009	0.23	0.23
57	570	0.0088	0.0095	0.645	0.012	0.001	0.455	0.009	0.009	0.24	0.24
58	580	0.0088	0.0095	0.655	0.014	0.001	0.464	0.009	0.009	0.24	0.24
59	590	0.0088	0.0095	0.664	0.015	0.001	0.473	0.009	0.009	0.24	0.24
60	600	0.0088	0.0095	0.673	0.016	0.001	0.481	0.009	0.009	0.24	0.24
61	610	0.0088	0.0095	0.683	0.018	0.001	0.490	0.009	0.009	0.24	0.24
62	620	0.0088	0.0095	0.692	0.019	0.002	0.499	0.009	0.009	0.24	0.24
63	630	0.0088	0.0095	0.702	0.021	0.002	0.508	0.009	0.009	0.24	0.24
64	640	0.0088	0.0095	0.711	0.023	0.002	0.517	0.009	0.009	0.24	0.24
65	650	0.0072	0.0077	0.719	0.024	0.001	0.525	0.007	0.007	0.19	0.22
66	660	0.0072	0.0077	0.727	0.026	0.001	0.532	0.007	0.007	0.19	0.19
67	670	0.0072	0.0077	0.735	0.027	0.001	0.539	0.007	0.007	0.19	0.19
68	680	0.0072	0.0077	0.742	0.028	0.002	0.547	0.007	0.007	0.20	0.20
69	690	0.0072	0.0077	0.750	0.030	0.002	0.554	0.007	0.007	0.20	0.20
70	700	0.0072	0.0077	0.758	0.032	0.002	0.561	0.007	0.007	0.20	0.20
71	710	0.0072	0.0077	0.766	0.033	0.002	0.569	0.007	0.007	0.20	0.20
72	720	0.0072	0.0077	0.773	0.035	0.002	0.576	0.007	0.007	0.20	0.20
73	730	0.0072	0.0077	0.781	0.037	0.002	0.583	0.007	0.007	0.20	0.20
74	740	0.0072	0.0077	0.789	0.038	0.002	0.591	0.007	0.007	0.20	0.20
75	750	0.0072	0.0077	0.796	0.040	0.002	0.598	0.007	0.007	0.20	0.20
76	760	0.0072	0.0077	0.804	0.042	0.002	0.606	0.007	0.007	0.20	0.20
77	770	0.0057	0.0061	0.810	0.043	0.001	0.612	0.006	0.006	0.16	0.18
78	780	0.0057	0.0061	0.816	0.045	0.001	0.617	0.006	0.006	0.16	0.16
79	790	0.0057	0.0061	0.823	0.046	0.001	0.623	0.006	0.006	0.16	0.16
80	800	0.0057	0.0061	0.829	0.048	0.002	0.629	0.006	0.006	0.16	0.16
81	810	0.0057	0.0061	0.835	0.049	0.002	0.635	0.006	0.006	0.16	0.16
82	820	0.0057	0.0061	0.841	0.051	0.002	0.641	0.006	0.006	0.16	0.16
83	830	0.0057	0.0061	0.847	0.052	0.002	0.647	0.006	0.006	0.16	0.16
84	840	0.0057	0.0061	0.853	0.054	0.002	0.653	0.006	0.006	0.16	0.16
85	850	0.0057	0.0061	0.859	0.056	0.002	0.659	0.006	0.006	0.16	0.16
86	860	0.0057	0.0061	0.865	0.057	0.002	0.664	0.006	0.006	0.16	0.16
87	870	0.0057	0.0061	0.872	0.059	0.002	0.670	0.006	0.006	0.16	0.16
88	880	0.0057	0.0061	0.878	0.061	0.002	0.676	0.006	0.006	0.16	0.16
89	890	0.0050	0.0054	0.883	0.062	0.001	0.681	0.005	0.005	0.14	0.15
90	900	0.0050	0.0054	0.888	0.064	0.001	0.687	0.005	0.005	0.14	0.14
91	910	0.0050	0.0054	0.894	0.065	0.002	0.692	0.005	0.005	0.14	0.14
92	920	0.0050	0.0054	0.899	0.067	0.002	0.697	0.005	0.005	0.14	0.14
93	930	0.0050	0.0054	0.905	0.068	0.002	0.702	0.005	0.005	0.14	0.14
94	940	0.0050	0.0054	0.910	0.070	0.002	0.707	0.005	0.005	0.14	0.14
95	950	0.0050	0.0054	0.915	0.071	0.002	0.713	0.005	0.005	0.14	0.14
96	960	0.0050	0.0054	0.921	0.073	0.002	0.718	0.005	0.005	0.14	0.14
97	970	0.0050	0.0054	0.926	0.075	0.002	0.723	0.005	0.005	0.14	0.14
98	980	0.0050	0.0054	0.931	0.076	0.002	0.728	0.005	0.005	0.14	0.14
99	990	0.0050	0.0054	0.937	0.078	0.002	0.733	0.005	0.005	0.14	0.14
100	1000	0.0050	0.0054	0.942	0.079	0.002	0.739	0.005	0.005	0.14	0.14
101	1010	0.0040	0.0043	0.947	0.081	0.001	0.743	0.004	0.004	0.11	0.12
102	1020	0.0040	0.0043	0.951	0.082	0.001	0.747	0.004	0.004	0.11	0.11
103	1030	0.0040	0.0043	0.955	0.083	0.001	0.751	0.004	0.004	0.11	0.11
104	1040	0.0040	0.0043	0.959	0.085	0.001	0.755	0.004	0.004	0.11	0.11
105	1050	0.0040	0.0043	0.964	0.086	0.001	0.759	0.004	0.004	0.11	0.11
106	1060	0.0040	0.0043	0.968	0.088	0.001	0.763	0.004	0.004	0.11	0.11
107	1070	0.0040	0.0043	0.972	0.089	0.001	0.768	0.004	0.004	0.11	0.11
108	1080	0.0040	0.0043	0.977	0.090	0.001	0.772	0.004	0.004	0.11	0.11
109	1090	0.0040	0.0043	0.981	0.092	0.001	0.776	0.004	0.004	0.11	0.11
110	1100	0.0040	0.0043	0.985	0.093	0.001	0.780	0.004	0.004	0.11	0.11
111	1110	0.0040	0.0043	0.990	0.094	0.001	0.784	0.004	0.004	0.11	0.11
112	1120	0.0040	0.0043	0.994	0.096	0.001	0.789	0.004	0.004	0.11	0.11

113	1130	0.0040	0.0043	0.998	0.097	0.001	0.793	0.004	0.004	0.11	0.11
114	1140	0.0040	0.0043	1.002	0.099	0.001	0.797	0.004	0.004	0.11	0.11
115	1150	0.0040	0.0043	1.007	0.100	0.001	0.801	0.004	0.004	0.11	0.11
116	1160	0.0040	0.0043	1.011	0.102	0.001	0.805	0.004	0.004	0.11	0.11
117	1170	0.0040	0.0043	1.015	0.103	0.001	0.809	0.004	0.004	0.11	0.11
118	1180	0.0040	0.0043	1.020	0.105	0.001	0.814	0.004	0.004	0.11	0.11
119	1190	0.0040	0.0043	1.024	0.106	0.001	0.818	0.004	0.004	0.11	0.11
120	1200	0.0040	0.0043	1.028	0.108	0.001	0.822	0.004	0.004	0.11	0.11
121	1210	0.0032	0.0034	1.032	0.109	0.001	0.825	0.003	0.003	0.09	0.10
122	1220	0.0032	0.0034	1.035	0.110	0.001	0.829	0.003	0.003	0.09	0.09
123	1230	0.0032	0.0034	1.039	0.111	0.001	0.832	0.003	0.003	0.09	0.09
124	1240	0.0032	0.0034	1.042	0.112	0.001	0.835	0.003	0.003	0.09	0.09
125	1250	0.0032	0.0034	1.045	0.114	0.001	0.839	0.003	0.003	0.09	0.09
126	1260	0.0032	0.0034	1.049	0.115	0.001	0.842	0.003	0.003	0.09	0.09
127	1270	0.0032	0.0034	1.052	0.116	0.001	0.845	0.003	0.003	0.09	0.09
128	1280	0.0032	0.0034	1.056	0.117	0.001	0.849	0.003	0.003	0.09	0.09
129	1290	0.0016	0.0017	1.057	0.118	0.001	0.850	0.002	0.002	0.04	0.07
130	1300	0.0016	0.0017	1.059	0.119	0.001	0.852	0.002	0.002	0.04	0.04
131	1310	0.0016	0.0017	1.061	0.119	0.001	0.854	0.002	0.002	0.04	0.04
132	1320	0.0016	0.0017	1.063	0.120	0.001	0.855	0.002	0.002	0.04	0.04
133	1330	0.0016	0.0017	1.064	0.120	0.001	0.857	0.002	0.002	0.04	0.04
134	1340	0.0016	0.0017	1.066	0.121	0.001	0.859	0.002	0.002	0.04	0.04
135	1350	0.0016	0.0017	1.068	0.122	0.001	0.860	0.002	0.002	0.04	0.04
136	1360	0.0016	0.0017	1.070	0.122	0.001	0.862	0.002	0.002	0.04	0.04
137	1370	0.0016	0.0017	1.071	0.123	0.001	0.864	0.002	0.002	0.04	0.04
138	1380	0.0016	0.0017	1.073	0.124	0.001	0.865	0.002	0.002	0.04	0.04
139	1390	0.0003	0.0003	1.073	0.124	0.000	0.866	0.000	0.000	0.01	0.03
140	1400	0.0003	0.0003	1.074	0.124	0.000	0.866	0.000	0.000	0.01	0.01
141	1410	0.0003	0.0003	1.074	0.124	0.000	0.866	0.000	0.000	0.01	0.01
142	1420	0.0003	0.0003	1.074	0.124	0.000	0.867	0.000	0.000	0.01	0.01
143	1430	0.0003	0.0003	1.075	0.124	0.000	0.867	0.000	0.000	0.01	0.01
144	1440	0.0003	0.0003	1.075	0.124	0.000	0.867	0.000	0.000	0.01	0.01
TOTAL		1.000	1.075	93.330	6.793	0.124	69.371	0.867	0.867	23.01	23.00

Per. Area Imp. Area	0 acres 4.385 acres	Per. CN Imp. CN	81 98	Tp (min.) = Tc (min.) =	470 5	Qp (cfs) =	1.774
------------------------	------------------------	--------------------	----------	----------------------------	----------	------------	-------



DESIGN COMPANY

Seattle Public Utilities**Project Name Broadview Neighborhood I&I**

SvR Project No. 07024

Date: 6/17/2008

By: RBM

Santa Barbara Urban Hydrograph Method (SBUH)

Note: SCS Type 1A or Seattle Modified

Rainfall Distribution: **Seattle Modified**

Storm Event	25 year	Pt =	3.125 inches	Qpeak =	5.72 cfs
Pervious Area	0.0000 acre	CN =	81	Sp =	2.35
Impervious Area	4.3850 acre	CN =	98	Si =	0.20
Total Area	4.3850 acre	Tc =	5 minutes		
		dt =	10 minutes	w =	0.50

Time Increment	Time (minutes)	Rainfall Distribution 2 (fraction)	Incremental Rainfall (inches)	Accumulated Rainfall (inches)	Pervious Runoff (inches)	Pervious Runoff (inches)	Impervious Runoff (inches)	Impervious Runoff (inches)	Total Runoff (inches)	Instant Flowrate (cfs)	Design Flowrate (cfs)
1	2	3	4	5	6	7	8	9	10	11	12
0	0	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00
1	10	0.0040	0.0125	0.013	0.000	0.000	0.000	0.000	0.000	0.00	0.00
2	20	0.0040	0.0125	0.025	0.000	0.000	0.000	0.000	0.000	0.00	0.00
3	30	0.0040	0.0125	0.038	0.000	0.000	0.000	0.000	0.000	0.00	0.00
4	40	0.0040	0.0125	0.050	0.000	0.000	0.000	0.000	0.000	0.01	0.01
5	50	0.0040	0.0125	0.063	0.000	0.000	0.002	0.002	0.002	0.05	0.03
6	60	0.0040	0.0125	0.075	0.000	0.000	0.005	0.003	0.003	0.08	0.06
7	70	0.0040	0.0125	0.088	0.000	0.000	0.009	0.004	0.004	0.10	0.09
8	80	0.0040	0.0125	0.100	0.000	0.000	0.014	0.005	0.005	0.13	0.11
9	90	0.0040	0.0125	0.113	0.000	0.000	0.019	0.005	0.005	0.14	0.13
10	100	0.0040	0.0125	0.125	0.000	0.000	0.025	0.006	0.006	0.16	0.15
11	110	0.0050	0.0156	0.141	0.000	0.000	0.034	0.008	0.008	0.22	0.19
12	120	0.0050	0.0156	0.156	0.000	0.000	0.043	0.009	0.009	0.24	0.23
13	130	0.0050	0.0156	0.172	0.000	0.000	0.052	0.010	0.010	0.26	0.25
14	140	0.0050	0.0156	0.188	0.000	0.000	0.063	0.010	0.010	0.27	0.26
15	150	0.0050	0.0156	0.203	0.000	0.000	0.073	0.011	0.011	0.28	0.28
16	160	0.0050	0.0156	0.219	0.000	0.000	0.084	0.011	0.011	0.29	0.29
17	170	0.0060	0.0188	0.238	0.000	0.000	0.098	0.014	0.014	0.37	0.33
18	180	0.0060	0.0188	0.256	0.000	0.000	0.112	0.014	0.014	0.38	0.37
19	190	0.0060	0.0188	0.275	0.000	0.000	0.127	0.015	0.015	0.39	0.38
20	200	0.0060	0.0188	0.294	0.000	0.000	0.142	0.015	0.015	0.40	0.39
21	210	0.0060	0.0188	0.313	0.000	0.000	0.157	0.015	0.015	0.40	0.40
22	220	0.0060	0.0188	0.331	0.000	0.000	0.173	0.016	0.016	0.41	0.41
23	230	0.0070	0.0219	0.353	0.000	0.000	0.191	0.018	0.018	0.49	0.45
24	240	0.0070	0.0219	0.375	0.000	0.000	0.210	0.019	0.019	0.50	0.49
25	250	0.0070	0.0219	0.397	0.000	0.000	0.229	0.019	0.019	0.50	0.50
26	260	0.0070	0.0219	0.419	0.000	0.000	0.248	0.019	0.019	0.51	0.51
27	270	0.0070	0.0219	0.441	0.000	0.000	0.267	0.019	0.019	0.51	0.51
28	280	0.0070	0.0219	0.463	0.000	0.000	0.287	0.020	0.020	0.52	0.52
29	290	0.0082	0.0256	0.488	0.000	0.000	0.310	0.023	0.023	0.61	0.57
30	300	0.0082	0.0256	0.514	0.001	0.001	0.333	0.023	0.023	0.62	0.61
31	310	0.0082	0.0256	0.539	0.002	0.001	0.357	0.023	0.023	0.62	0.62
32	320	0.0082	0.0256	0.565	0.004	0.002	0.380	0.024	0.024	0.63	0.62
33	330	0.0082	0.0256	0.591	0.006	0.002	0.404	0.024	0.024	0.63	0.63
34	340	0.0082	0.0256	0.616	0.009	0.003	0.428	0.024	0.024	0.63	0.63
35	350	0.0095	0.0297	0.646	0.012	0.004	0.456	0.028	0.028	0.74	0.69
36	360	0.0095	0.0297	0.676	0.017	0.004	0.483	0.028	0.028	0.74	0.74
37	370	0.0095	0.0297	0.705	0.022	0.005	0.512	0.028	0.028	0.74	0.74
38	380	0.0095	0.0297	0.735	0.027	0.005	0.540	0.028	0.028	0.75	0.75
39	390	0.0095	0.0297	0.765	0.033	0.006	0.568	0.028	0.028	0.75	0.75
40	400	0.0095	0.0297	0.794	0.040	0.007	0.596	0.028	0.028	0.75	0.75
41	410	0.0133	0.0416	0.836	0.050	0.010	0.636	0.040	0.040	1.06	0.90
42	420	0.0133	0.0416	0.878	0.061	0.011	0.676	0.040	0.040	1.06	1.06

43	430	0.0133	0.0416	0.919	0.072	0.012	0.716	0.040	0.040	1.06	1.06
44	440	0.0180	0.0563	0.975	0.090	0.017	0.771	0.054	0.054	1.44	1.25
45	450	0.0180	0.0563	1.032	0.109	0.019	0.825	0.055	0.055	1.45	1.45
46	460	0.0416	0.1300	1.162	0.158	0.049	0.952	0.127	0.127	3.36	2.40
47	470	0.0992	0.3100	1.472	0.300	0.142	1.256	0.304	0.304	8.07	5.72
48	480	0.0270	0.0844	1.556	0.344	0.044	1.339	0.083	0.083	2.21	5.14
49	490	0.0180	0.0563	1.612	0.375	0.030	1.395	0.056	0.056	1.47	1.84
50	500	0.0134	0.0419	1.654	0.398	0.023	1.436	0.041	0.041	1.10	1.28
51	510	0.0134	0.0419	1.696	0.421	0.024	1.477	0.041	0.041	1.10	1.10
52	520	0.0134	0.0419	1.738	0.445	0.024	1.519	0.041	0.041	1.10	1.10
53	530	0.0088	0.0275	1.765	0.461	0.016	1.546	0.027	0.027	0.72	0.91
54	540	0.0088	0.0275	1.793	0.478	0.016	1.573	0.027	0.027	0.72	0.72
55	550	0.0088	0.0275	1.820	0.494	0.016	1.601	0.027	0.027	0.72	0.72
56	560	0.0088	0.0275	1.848	0.510	0.017	1.628	0.027	0.027	0.72	0.72
57	570	0.0088	0.0275	1.875	0.527	0.017	1.655	0.027	0.027	0.72	0.72
58	580	0.0088	0.0275	1.903	0.544	0.017	1.682	0.027	0.027	0.72	0.72
59	590	0.0088	0.0275	1.930	0.561	0.017	1.709	0.027	0.027	0.72	0.72
60	600	0.0088	0.0275	1.958	0.578	0.017	1.737	0.027	0.027	0.72	0.72
61	610	0.0088	0.0275	1.985	0.595	0.017	1.764	0.027	0.027	0.72	0.72
62	620	0.0088	0.0275	2.013	0.613	0.017	1.791	0.027	0.027	0.72	0.72
63	630	0.0088	0.0275	2.040	0.630	0.018	1.818	0.027	0.027	0.72	0.72
64	640	0.0088	0.0275	2.068	0.648	0.018	1.846	0.027	0.027	0.72	0.72
65	650	0.0072	0.0225	2.090	0.663	0.015	1.868	0.022	0.022	0.59	0.66
66	660	0.0072	0.0225	2.113	0.677	0.015	1.890	0.022	0.022	0.59	0.59
67	670	0.0072	0.0225	2.135	0.692	0.015	1.913	0.022	0.022	0.59	0.59
68	680	0.0072	0.0225	2.158	0.707	0.015	1.935	0.022	0.022	0.59	0.59
69	690	0.0072	0.0225	2.180	0.722	0.015	1.957	0.022	0.022	0.59	0.59
70	700	0.0072	0.0225	2.203	0.737	0.015	1.980	0.022	0.022	0.59	0.59
71	710	0.0072	0.0225	2.225	0.752	0.015	2.002	0.022	0.022	0.59	0.59
72	720	0.0072	0.0225	2.248	0.767	0.015	2.024	0.022	0.022	0.59	0.59
73	730	0.0072	0.0225	2.270	0.782	0.015	2.047	0.022	0.022	0.59	0.59
74	740	0.0072	0.0225	2.293	0.798	0.015	2.069	0.022	0.022	0.59	0.59
75	750	0.0072	0.0225	2.315	0.813	0.015	2.091	0.022	0.022	0.59	0.59
76	760	0.0072	0.0225	2.338	0.829	0.015	2.114	0.022	0.022	0.59	0.59
77	770	0.0057	0.0178	2.356	0.841	0.012	2.132	0.018	0.018	0.47	0.53
78	780	0.0057	0.0178	2.373	0.853	0.012	2.149	0.018	0.018	0.47	0.47
79	790	0.0057	0.0178	2.391	0.866	0.012	2.167	0.018	0.018	0.47	0.47
80	800	0.0057	0.0178	2.409	0.878	0.012	2.185	0.018	0.018	0.47	0.47
81	810	0.0057	0.0178	2.427	0.891	0.012	2.202	0.018	0.018	0.47	0.47
82	820	0.0057	0.0178	2.445	0.903	0.013	2.220	0.018	0.018	0.47	0.47
83	830	0.0057	0.0178	2.463	0.916	0.013	2.238	0.018	0.018	0.47	0.47
84	840	0.0057	0.0178	2.480	0.928	0.013	2.255	0.018	0.018	0.47	0.47
85	850	0.0057	0.0178	2.498	0.941	0.013	2.273	0.018	0.018	0.47	0.47
86	860	0.0057	0.0178	2.516	0.954	0.013	2.291	0.018	0.018	0.47	0.47
87	870	0.0057	0.0178	2.534	0.967	0.013	2.309	0.018	0.018	0.47	0.47
88	880	0.0057	0.0178	2.552	0.979	0.013	2.326	0.018	0.018	0.47	0.47
89	890	0.0050	0.0156	2.567	0.991	0.011	2.342	0.016	0.016	0.41	0.44
90	900	0.0050	0.0156	2.583	1.002	0.011	2.357	0.016	0.016	0.41	0.41
91	910	0.0050	0.0156	2.598	1.013	0.011	2.373	0.016	0.016	0.41	0.41
92	920	0.0050	0.0156	2.614	1.025	0.011	2.388	0.016	0.016	0.41	0.41
93	930	0.0050	0.0156	2.630	1.036	0.011	2.404	0.016	0.016	0.41	0.41
94	940	0.0050	0.0156	2.645	1.047	0.011	2.420	0.016	0.016	0.41	0.41
95	950	0.0050	0.0156	2.661	1.059	0.011	2.435	0.016	0.016	0.41	0.41
96	960	0.0050	0.0156	2.677	1.070	0.011	2.451	0.016	0.016	0.41	0.41
97	970	0.0050	0.0156	2.692	1.082	0.011	2.466	0.016	0.016	0.41	0.41
98	980	0.0050	0.0156	2.708	1.093	0.012	2.482	0.016	0.016	0.41	0.41
99	990	0.0050	0.0156	2.723	1.105	0.012	2.497	0.016	0.016	0.41	0.41
100	1000	0.0050	0.0156	2.739	1.116	0.012	2.513	0.016	0.016	0.41	0.41
101	1010	0.0040	0.0125	2.752	1.126	0.009	2.525	0.012	0.012	0.33	0.37
102	1020	0.0040	0.0125	2.764	1.135	0.009	2.538	0.012	0.012	0.33	0.33
103	1030	0.0040	0.0125	2.777	1.144	0.009	2.550	0.012	0.012	0.33	0.33
104	1040	0.0040	0.0125	2.789	1.154	0.009	2.563	0.012	0.012	0.33	0.33
105	1050	0.0040	0.0125	2.802	1.163	0.009	2.575	0.012	0.012	0.33	0.33
106	1060	0.0040	0.0125	2.814	1.172	0.009	2.588	0.012	0.012	0.33	0.33
107	1070	0.0040	0.0125	2.827	1.182	0.009	2.600	0.012	0.012	0.33	0.33
108	1080	0.0040	0.0125	2.839	1.191	0.009	2.612	0.012	0.012	0.33	0.33
109	1090	0.0040	0.0125	2.852	1.200	0.009	2.625	0.012	0.012	0.33	0.33
110	1100	0.0040	0.0125	2.864	1.210	0.009	2.637	0.012	0.012	0.33	0.33
111	1110	0.0040	0.0125	2.877	1.219	0.009	2.650	0.012	0.012	0.33	0.33
112	1120	0.0040	0.0125	2.889	1.229	0.009	2.662	0.012	0.012	0.33	0.33

113	1130	0.0040	0.0125	2.902	1.238	0.009	2.675	0.012	0.012	0.33	0.33
114	1140	0.0040	0.0125	2.914	1.248	0.009	2.687	0.012	0.012	0.33	0.33
115	1150	0.0040	0.0125	2.927	1.257	0.010	2.700	0.012	0.012	0.33	0.33
116	1160	0.0040	0.0125	2.939	1.267	0.010	2.712	0.012	0.012	0.33	0.33
117	1170	0.0040	0.0125	2.952	1.276	0.010	2.724	0.012	0.012	0.33	0.33
118	1180	0.0040	0.0125	2.964	1.286	0.010	2.737	0.012	0.012	0.33	0.33
119	1190	0.0040	0.0125	2.977	1.295	0.010	2.749	0.012	0.012	0.33	0.33
120	1200	0.0040	0.0125	2.989	1.305	0.010	2.762	0.012	0.012	0.33	0.33
121	1210	0.0032	0.0100	2.999	1.313	0.008	2.772	0.010	0.010	0.26	0.30
122	1220	0.0032	0.0100	3.009	1.320	0.008	2.782	0.010	0.010	0.26	0.26
123	1230	0.0032	0.0100	3.019	1.328	0.008	2.792	0.010	0.010	0.26	0.26
124	1240	0.0032	0.0100	3.029	1.336	0.008	2.802	0.010	0.010	0.26	0.26
125	1250	0.0032	0.0100	3.039	1.344	0.008	2.812	0.010	0.010	0.26	0.26
126	1260	0.0032	0.0100	3.049	1.351	0.008	2.822	0.010	0.010	0.26	0.26
127	1270	0.0032	0.0100	3.059	1.359	0.008	2.831	0.010	0.010	0.26	0.26
128	1280	0.0032	0.0100	3.069	1.367	0.008	2.841	0.010	0.010	0.26	0.26
129	1290	0.0016	0.0050	3.074	1.371	0.004	2.846	0.005	0.005	0.13	0.20
130	1300	0.0016	0.0050	3.079	1.375	0.004	2.851	0.005	0.005	0.13	0.13
131	1310	0.0016	0.0050	3.084	1.378	0.004	2.856	0.005	0.005	0.13	0.13
132	1320	0.0016	0.0050	3.089	1.382	0.004	2.861	0.005	0.005	0.13	0.13
133	1330	0.0016	0.0050	3.094	1.386	0.004	2.866	0.005	0.005	0.13	0.13
134	1340	0.0016	0.0050	3.099	1.390	0.004	2.871	0.005	0.005	0.13	0.13
135	1350	0.0016	0.0050	3.104	1.394	0.004	2.876	0.005	0.005	0.13	0.13
136	1360	0.0016	0.0050	3.109	1.398	0.004	2.881	0.005	0.005	0.13	0.13
137	1370	0.0016	0.0050	3.114	1.402	0.004	2.886	0.005	0.005	0.13	0.13
138	1380	0.0016	0.0050	3.119	1.406	0.004	2.891	0.005	0.005	0.13	0.13
139	1390	0.0003	0.0009	3.120	1.406	0.001	2.892	0.001	0.001	0.02	0.08
140	1400	0.0003	0.0009	3.121	1.407	0.001	2.893	0.001	0.001	0.02	0.02
141	1410	0.0003	0.0009	3.122	1.408	0.001	2.894	0.001	0.001	0.02	0.02
142	1420	0.0003	0.0009	3.123	1.409	0.001	2.895	0.001	0.001	0.02	0.02
143	1430	0.0003	0.0009	3.124	1.409	0.001	2.896	0.001	0.001	0.02	0.02
144	1440	0.0003	0.0009	3.125	1.410	0.001	2.897	0.001	0.001	0.02	0.02
TOTAL		1.000	3.125	271.308	99.472	1.410	242.525	2.897	2.897	76.85	76.84

Per. Area	0 acres	Per. CN	81	Tp (min.) =	470	Qp (cfs) =	5.716
Imp. Area	4.385 acres	Imp. CN	98	Tc (min.) =	5		



DESIGN COMPANY

Seattle Public Utilities**Project Name Broadview Neighborhood I&I**

SvR Project No. 07024

Date: 6/17/2008

By: RBM

Santa Barbara Urban Hydrograph Method (SBUH)

Note: SCS Type 1A or Seattle Modified

Rainfall Distribution: **Seattle Modified**

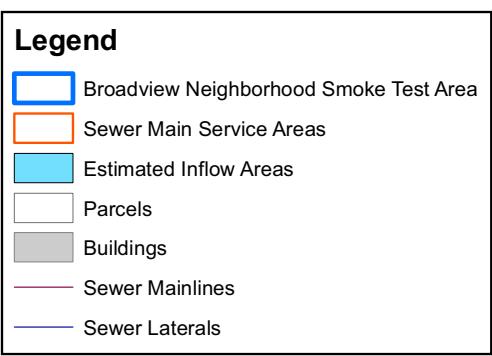
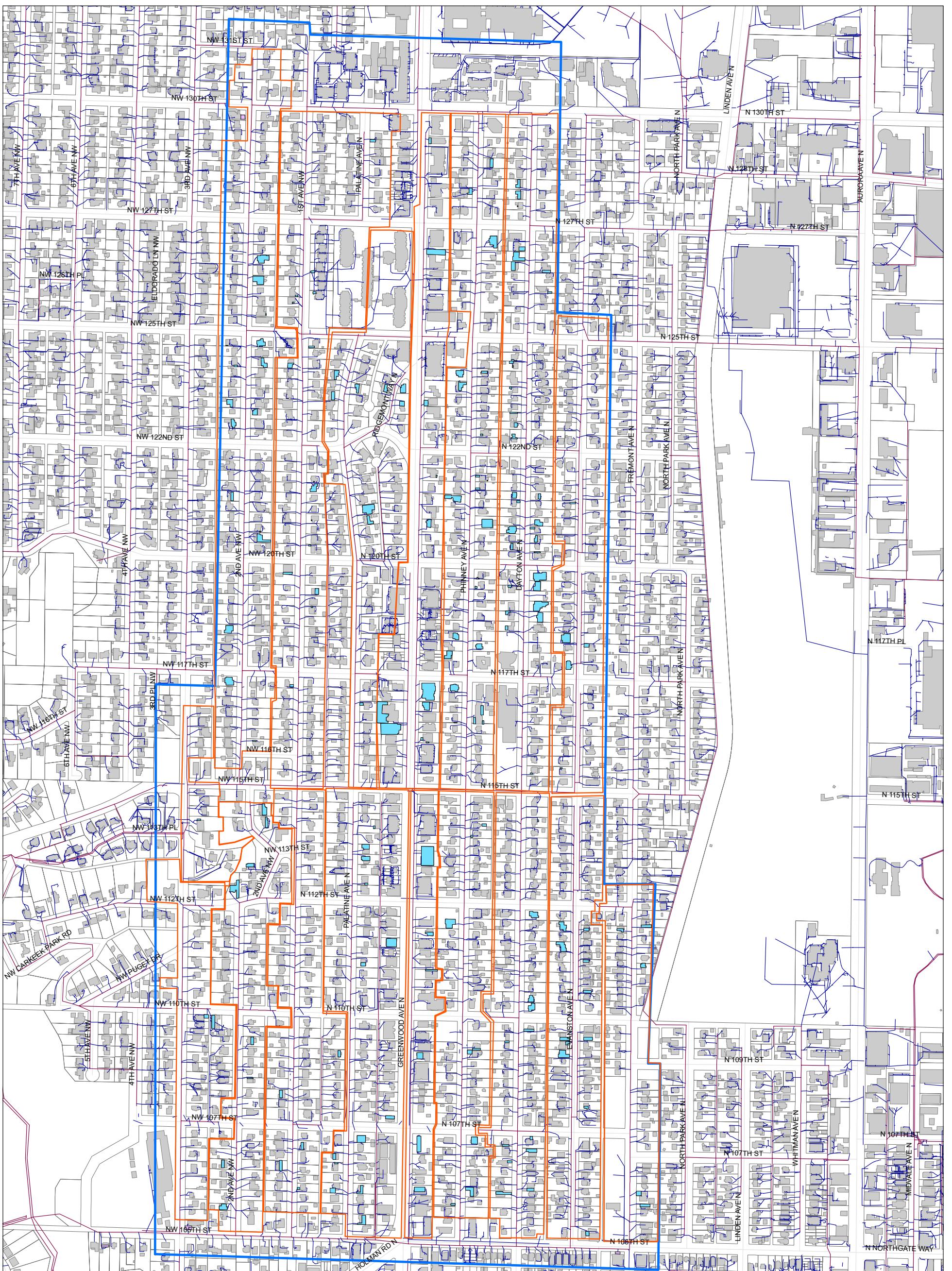
Storm Event	100 year	Pt =	3.84 inches	Qpeak =	7.07 cfs
Pervious Area	0.0000 acre	CN =	81	Sp =	2.35
Impervious Area	4.3850 acre	CN =	98	Si =	0.20
Total Area	4.3850 acre	Tc =	5 minutes		
		dt =	10 minutes	w =	0.50

Time Increment	Time (minutes)	Rainfall Distribution 2 (fraction)	Incremental Rainfall (inches)	Accumulated Rainfall (inches)	Pervious Runoff (inches)	Pervious Runoff (inches)	Impervious Runoff (inches)	Impervious Runoff (inches)	Total Runoff (inches)	Instant Flowrate (cfs)	Design Flowrate (cfs)
1	2	3	4	5	6	7	8	9	10	11	12
0	0	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00
1	10	0.0040	0.0154	0.015	0.000	0.000	0.000	0.000	0.000	0.00	0.00
2	20	0.0040	0.0154	0.031	0.000	0.000	0.000	0.000	0.000	0.00	0.00
3	30	0.0040	0.0154	0.046	0.000	0.000	0.000	0.000	0.000	0.00	0.00
4	40	0.0040	0.0154	0.061	0.000	0.000	0.002	0.002	0.002	0.05	0.03
5	50	0.0040	0.0154	0.077	0.000	0.000	0.006	0.004	0.004	0.10	0.07
6	60	0.0040	0.0154	0.092	0.000	0.000	0.011	0.005	0.005	0.13	0.12
7	70	0.0040	0.0154	0.108	0.000	0.000	0.017	0.006	0.006	0.17	0.15
8	80	0.0040	0.0154	0.123	0.000	0.000	0.024	0.007	0.007	0.19	0.18
9	90	0.0040	0.0154	0.138	0.000	0.000	0.032	0.008	0.008	0.21	0.20
10	100	0.0040	0.0154	0.154	0.000	0.000	0.041	0.009	0.009	0.23	0.22
11	110	0.0050	0.0192	0.173	0.000	0.000	0.053	0.012	0.012	0.31	0.27
12	120	0.0050	0.0192	0.192	0.000	0.000	0.066	0.013	0.013	0.34	0.32
13	130	0.0050	0.0192	0.211	0.000	0.000	0.079	0.013	0.013	0.35	0.34
14	140	0.0050	0.0192	0.230	0.000	0.000	0.093	0.014	0.014	0.37	0.36
15	150	0.0050	0.0192	0.250	0.000	0.000	0.107	0.014	0.014	0.38	0.38
16	160	0.0050	0.0192	0.269	0.000	0.000	0.122	0.015	0.015	0.39	0.39
17	170	0.0060	0.0230	0.292	0.000	0.000	0.140	0.018	0.018	0.49	0.44
18	180	0.0060	0.0230	0.315	0.000	0.000	0.159	0.019	0.019	0.50	0.49
19	190	0.0060	0.0230	0.338	0.000	0.000	0.178	0.019	0.019	0.51	0.50
20	200	0.0060	0.0230	0.361	0.000	0.000	0.198	0.019	0.019	0.52	0.51
21	210	0.0060	0.0230	0.384	0.000	0.000	0.218	0.020	0.020	0.52	0.52
22	220	0.0060	0.0230	0.407	0.000	0.000	0.238	0.020	0.020	0.53	0.53
23	230	0.0070	0.0269	0.434	0.000	0.000	0.261	0.024	0.024	0.63	0.58
24	240	0.0070	0.0269	0.461	0.000	0.000	0.285	0.024	0.024	0.64	0.63
25	250	0.0070	0.0269	0.488	0.000	0.000	0.309	0.024	0.024	0.64	0.64
26	260	0.0070	0.0269	0.515	0.001	0.001	0.334	0.024	0.024	0.65	0.64
27	270	0.0070	0.0269	0.541	0.002	0.001	0.358	0.025	0.025	0.65	0.65
28	280	0.0070	0.0269	0.568	0.004	0.002	0.383	0.025	0.025	0.66	0.66
29	290	0.0082	0.0315	0.600	0.007	0.003	0.412	0.029	0.029	0.77	0.72
30	300	0.0082	0.0315	0.631	0.010	0.004	0.442	0.029	0.029	0.78	0.78
31	310	0.0082	0.0315	0.663	0.015	0.004	0.471	0.030	0.030	0.78	0.78
32	320	0.0082	0.0315	0.694	0.020	0.005	0.501	0.030	0.030	0.79	0.79
33	330	0.0082	0.0315	0.726	0.025	0.006	0.531	0.030	0.030	0.79	0.79
34	340	0.0082	0.0315	0.757	0.032	0.006	0.561	0.030	0.030	0.79	0.79
35	350	0.0095	0.0365	0.794	0.039	0.008	0.596	0.035	0.035	0.92	0.86
36	360	0.0095	0.0365	0.830	0.048	0.009	0.631	0.035	0.035	0.93	0.93
37	370	0.0095	0.0365	0.867	0.058	0.009	0.666	0.035	0.035	0.93	0.93
38	380	0.0095	0.0365	0.903	0.068	0.010	0.701	0.035	0.035	0.93	0.93
39	390	0.0095	0.0365	0.940	0.079	0.011	0.736	0.035	0.035	0.93	0.93
40	400	0.0095	0.0365	0.976	0.090	0.011	0.771	0.035	0.035	0.94	0.94
41	410	0.0133	0.0511	1.027	0.107	0.017	0.821	0.050	0.050	1.31	1.13
42	420	0.0133	0.0511	1.078	0.126	0.018	0.871	0.050	0.050	1.32	1.32

43	430	0.0133	0.0511	1.129	0.145	0.019	0.920	0.050	0.050	1.32	1.32
44	440	0.0180	0.0691	1.198	0.173	0.028	0.988	0.068	0.068	1.79	1.56
45	450	0.0180	0.0691	1.268	0.203	0.030	1.056	0.068	0.068	1.80	1.79
46	460	0.0416	0.1597	1.427	0.278	0.075	1.213	0.157	0.157	4.16	2.98
47	470	0.0992	0.3809	1.808	0.487	0.209	1.589	0.376	0.376	9.98	7.07
48	480	0.0270	0.1037	1.912	0.549	0.063	1.691	0.103	0.103	2.72	6.35
49	490	0.0180	0.0691	1.981	0.593	0.043	1.760	0.068	0.068	1.82	2.27
50	500	0.0134	0.0515	2.033	0.625	0.033	1.811	0.051	0.051	1.35	1.59
51	510	0.0134	0.0515	2.084	0.658	0.033	1.862	0.051	0.051	1.35	1.35
52	520	0.0134	0.0515	2.135	0.692	0.034	1.913	0.051	0.051	1.35	1.35
53	530	0.0088	0.0338	2.169	0.714	0.022	1.946	0.034	0.034	0.89	1.12
54	540	0.0088	0.0338	2.203	0.737	0.023	1.980	0.034	0.034	0.89	0.89
55	550	0.0088	0.0338	2.237	0.760	0.023	2.013	0.034	0.034	0.89	0.89
56	560	0.0088	0.0338	2.271	0.783	0.023	2.047	0.034	0.034	0.89	0.89
57	570	0.0088	0.0338	2.304	0.806	0.023	2.081	0.034	0.034	0.89	0.89
58	580	0.0088	0.0338	2.338	0.829	0.023	2.114	0.034	0.034	0.89	0.89
59	590	0.0088	0.0338	2.372	0.852	0.023	2.148	0.034	0.034	0.89	0.89
60	600	0.0088	0.0338	2.406	0.876	0.024	2.181	0.034	0.034	0.89	0.89
61	610	0.0088	0.0338	2.440	0.900	0.024	2.215	0.034	0.034	0.89	0.89
62	620	0.0088	0.0338	2.473	0.923	0.024	2.249	0.034	0.034	0.89	0.89
63	630	0.0088	0.0338	2.507	0.947	0.024	2.282	0.034	0.034	0.89	0.89
64	640	0.0088	0.0338	2.541	0.972	0.024	2.316	0.034	0.034	0.89	0.89
65	650	0.0072	0.0276	2.569	0.992	0.020	2.343	0.027	0.027	0.73	0.81
66	660	0.0072	0.0276	2.596	1.012	0.020	2.371	0.028	0.028	0.73	0.73
67	670	0.0072	0.0276	2.624	1.032	0.020	2.398	0.028	0.028	0.73	0.73
68	680	0.0072	0.0276	2.652	1.052	0.020	2.426	0.028	0.028	0.73	0.73
69	690	0.0072	0.0276	2.679	1.072	0.020	2.453	0.028	0.028	0.73	0.73
70	700	0.0072	0.0276	2.707	1.092	0.020	2.481	0.028	0.028	0.73	0.73
71	710	0.0072	0.0276	2.734	1.113	0.020	2.508	0.028	0.028	0.73	0.73
72	720	0.0072	0.0276	2.762	1.133	0.021	2.536	0.028	0.028	0.73	0.73
73	730	0.0072	0.0276	2.790	1.154	0.021	2.563	0.028	0.028	0.73	0.73
74	740	0.0072	0.0276	2.817	1.175	0.021	2.591	0.028	0.028	0.73	0.73
75	750	0.0072	0.0276	2.845	1.196	0.021	2.618	0.028	0.028	0.73	0.73
76	760	0.0072	0.0276	2.873	1.216	0.021	2.646	0.028	0.028	0.73	0.73
77	770	0.0057	0.0219	2.895	1.233	0.017	2.668	0.022	0.022	0.58	0.65
78	780	0.0057	0.0219	2.916	1.250	0.017	2.689	0.022	0.022	0.58	0.58
79	790	0.0057	0.0219	2.938	1.266	0.017	2.711	0.022	0.022	0.58	0.58
80	800	0.0057	0.0219	2.960	1.283	0.017	2.733	0.022	0.022	0.58	0.58
81	810	0.0057	0.0219	2.982	1.300	0.017	2.755	0.022	0.022	0.58	0.58
82	820	0.0057	0.0219	3.004	1.317	0.017	2.777	0.022	0.022	0.58	0.58
83	830	0.0057	0.0219	3.026	1.333	0.017	2.798	0.022	0.022	0.58	0.58
84	840	0.0057	0.0219	3.048	1.350	0.017	2.820	0.022	0.022	0.58	0.58
85	850	0.0057	0.0219	3.070	1.367	0.017	2.842	0.022	0.022	0.58	0.58
86	860	0.0057	0.0219	3.092	1.384	0.017	2.864	0.022	0.022	0.58	0.58
87	870	0.0057	0.0219	3.113	1.401	0.017	2.886	0.022	0.022	0.58	0.58
88	880	0.0057	0.0219	3.135	1.418	0.017	2.907	0.022	0.022	0.58	0.58
89	890	0.0050	0.0192	3.155	1.433	0.015	2.927	0.019	0.019	0.51	0.54
90	900	0.0050	0.0192	3.174	1.448	0.015	2.946	0.019	0.019	0.51	0.51
91	910	0.0050	0.0192	3.193	1.464	0.015	2.965	0.019	0.019	0.51	0.51
92	920	0.0050	0.0192	3.212	1.479	0.015	2.984	0.019	0.019	0.51	0.51
93	930	0.0050	0.0192	3.231	1.494	0.015	3.003	0.019	0.019	0.51	0.51
94	940	0.0050	0.0192	3.251	1.509	0.015	3.022	0.019	0.019	0.51	0.51
95	950	0.0050	0.0192	3.270	1.524	0.015	3.041	0.019	0.019	0.51	0.51
96	960	0.0050	0.0192	3.289	1.539	0.015	3.061	0.019	0.019	0.51	0.51
97	970	0.0050	0.0192	3.308	1.555	0.015	3.080	0.019	0.019	0.51	0.51
98	980	0.0050	0.0192	3.327	1.570	0.015	3.099	0.019	0.019	0.51	0.51
99	990	0.0050	0.0192	3.347	1.585	0.015	3.118	0.019	0.019	0.51	0.51
100	1000	0.0050	0.0192	3.366	1.601	0.015	3.137	0.019	0.019	0.51	0.51
101	1010	0.0040	0.0154	3.381	1.613	0.012	3.152	0.015	0.015	0.41	0.46
102	1020	0.0040	0.0154	3.396	1.625	0.012	3.168	0.015	0.015	0.41	0.41
103	1030	0.0040	0.0154	3.412	1.637	0.012	3.183	0.015	0.015	0.41	0.41
104	1040	0.0040	0.0154	3.427	1.650	0.012	3.198	0.015	0.015	0.41	0.41
105	1050	0.0040	0.0154	3.443	1.662	0.012	3.214	0.015	0.015	0.41	0.41
106	1060	0.0040	0.0154	3.458	1.675	0.012	3.229	0.015	0.015	0.41	0.41
107	1070	0.0040	0.0154	3.473	1.687	0.012	3.244	0.015	0.015	0.41	0.41
108	1080	0.0040	0.0154	3.489	1.699	0.012	3.260	0.015	0.015	0.41	0.41
109	1090	0.0040	0.0154	3.504	1.712	0.012	3.275	0.015	0.015	0.41	0.41
110	1100	0.0040	0.0154	3.519	1.724	0.012	3.290	0.015	0.015	0.41	0.41
111	1110	0.0040	0.0154	3.535	1.737	0.012	3.306	0.015	0.015	0.41	0.41
112	1120	0.0040	0.0154	3.550	1.749	0.012	3.321	0.015	0.015	0.41	0.41

113	1130	0.0040	0.0154	3.565	1.762	0.012	3.336	0.015	0.015	0.41	0.41
114	1140	0.0040	0.0154	3.581	1.774	0.013	3.351	0.015	0.015	0.41	0.41
115	1150	0.0040	0.0154	3.596	1.787	0.013	3.367	0.015	0.015	0.41	0.41
116	1160	0.0040	0.0154	3.612	1.799	0.013	3.382	0.015	0.015	0.41	0.41
117	1170	0.0040	0.0154	3.627	1.812	0.013	3.397	0.015	0.015	0.41	0.41
118	1180	0.0040	0.0154	3.642	1.824	0.013	3.413	0.015	0.015	0.41	0.41
119	1190	0.0040	0.0154	3.658	1.837	0.013	3.428	0.015	0.015	0.41	0.41
120	1200	0.0040	0.0154	3.673	1.850	0.013	3.443	0.015	0.015	0.41	0.41
121	1210	0.0032	0.0123	3.685	1.860	0.010	3.456	0.012	0.012	0.33	0.37
122	1220	0.0032	0.0123	3.698	1.870	0.010	3.468	0.012	0.012	0.33	0.33
123	1230	0.0032	0.0123	3.710	1.880	0.010	3.480	0.012	0.012	0.33	0.33
124	1240	0.0032	0.0123	3.722	1.890	0.010	3.492	0.012	0.012	0.33	0.33
125	1250	0.0032	0.0123	3.734	1.900	0.010	3.505	0.012	0.012	0.33	0.33
126	1260	0.0032	0.0123	3.747	1.910	0.010	3.517	0.012	0.012	0.33	0.33
127	1270	0.0032	0.0123	3.759	1.921	0.010	3.529	0.012	0.012	0.33	0.33
128	1280	0.0032	0.0123	3.771	1.931	0.010	3.541	0.012	0.012	0.33	0.33
129	1290	0.0016	0.0061	3.777	1.936	0.005	3.548	0.006	0.006	0.16	0.24
130	1300	0.0016	0.0061	3.784	1.941	0.005	3.554	0.006	0.006	0.16	0.16
131	1310	0.0016	0.0061	3.790	1.946	0.005	3.560	0.006	0.006	0.16	0.16
132	1320	0.0016	0.0061	3.796	1.951	0.005	3.566	0.006	0.006	0.16	0.16
133	1330	0.0016	0.0061	3.802	1.956	0.005	3.572	0.006	0.006	0.16	0.16
134	1340	0.0016	0.0061	3.808	1.961	0.005	3.578	0.006	0.006	0.16	0.16
135	1350	0.0016	0.0061	3.814	1.966	0.005	3.584	0.006	0.006	0.16	0.16
136	1360	0.0016	0.0061	3.820	1.971	0.005	3.590	0.006	0.006	0.16	0.16
137	1370	0.0016	0.0061	3.827	1.977	0.005	3.597	0.006	0.006	0.16	0.16
138	1380	0.0016	0.0061	3.833	1.982	0.005	3.603	0.006	0.006	0.16	0.16
139	1390	0.0003	0.0012	3.834	1.983	0.001	3.604	0.001	0.001	0.03	0.10
140	1400	0.0003	0.0012	3.835	1.984	0.001	3.605	0.001	0.001	0.03	0.03
141	1410	0.0003	0.0012	3.836	1.984	0.001	3.606	0.001	0.001	0.03	0.03
142	1420	0.0003	0.0012	3.837	1.985	0.001	3.607	0.001	0.001	0.03	0.03
143	1430	0.0003	0.0012	3.838	1.986	0.001	3.608	0.001	0.001	0.03	0.03
144	1440	0.0003	0.0012	3.840	1.987	0.001	3.610	0.001	0.001	0.03	0.03
TOTAL		1.000	3.840	333.383	143.847	1.987	303.905	3.610	3.610	95.76	95.75

Per. Area	0 acres	Per. CN	81	Tp (min.) =	470	Qp (cfs) =	7.070
Imp. Area	4.385 acres	Imp. CN	98	Tc (min.) =	5		



0 125 250 500 750 1,000
Feet

Figure #1
SPU - Smoke Testing Map - Broadview Neighborhood

SvR Design Company
Project # 07024
28 Aug 2008

APPENDIX E

Focus Areas

Focus Areas

Focus Area A

The location of the sanitary sewer backup at site A is at the upper end of the main sanitary sewer line, in the northeast corner of the basin. Because the SPU pipe at this location has a small contributing area, the problem may be associated with the side sewer. This site is currently being converted to condominiums, which should upgrade capacity in the side sewer.

Focus Area B

One house in this area reported a problem during the December 2007 storm. The contributing area to the 8-inch sanitary sewer line that passes in front of this house is approximately one block (12 houses). The maintenance hole located just downstream of the house shows no sign of backwater. The house that reported the problem is slightly lower than the immediate neighbors.

Focus Area C

A nearby resident stated that the flooding problem they experienced was associated with surface water entering their yard from the yard to the northeast, and not a sanitary sewer backup. The home is at the head of the sanitary sewer line, and located on a slight rise.

Focus Area D

Only one occurrence of flooding is shown in the GIS data; however, the owner of the home with the flooding problem stated that the four homes to the south also experienced significant flooding with the December 2007 storm event. The houses further south are at lower elevations. They experienced worse flooding than the houses to the north. There is a 16 block contributing area to the 10-inch sanitary sewer line in this area.

Focus Area E

Four houses on the west side of 6th between 120th and 122nd have reported sanitary sewer backup problems. All of the houses that reported problems are on the downhill side of the street. The downstream maintenance hole at the corner of 120th and 6th shows a high water mark near the top of the maintenance hole. The next maintenance hole upstream also shows backwatering,

while the maintenance hole just upstream of the problem houses (at the intersection of 122nd and 6th) shows no backwatering. The outlet pipe from the downstream maintenance hole (intersection of 120th and 6th) discharges down a fairly steep hill, and one block downstream the 8-inch pipe was replaced with a 15-inch pipe.

Focus Area F

The house at 12002 Phinney has a basement elevation that is near the high water mark in the maintenance hole at the intersection of 120th and Phinney (about 4 feet from the top of the maintenance hole). Only four blocks contribute to this 6-inch pipe and maintenance hole. The pipe maintains a fairly constant grade through this area.

Focus Area G

One house (12023 Dayton) reported flooding problems after the December 2007 storm event. However, the owner stated that six or seven other homes also had significant flooding during the storm. Most of these houses are on the low side of Dayton to the north of 120th, with two located on the south side of 120th. The owner stated that during the storm, the water was within 10 inches of the tops of the maintenance holes on the street. A blockage in the pipe located one block downstream of the flooded homes was cleaned out during the storm, which caused the water in the maintenance hole to drop quickly and prevented further basement flooding.

Focus Area H

One house at 11729 Phinney reported flooding problems with the December 2007 storm event. The maintenance hole approximately 20 feet upstream of the side sewer for this house showed backwater to within 3 feet of the maintenance hole lid. The house that reported the flooding does not appear to have a basement and other houses nearby appear to be lower. The sanitary sewer line flattens slightly in front of home; however, the conveyance line is 6 inches in diameter and the contributing area is small (approximately four blocks).

Focus Area I

The first three homes north of 115th on 1st Avenue NW reported flooding problems due to the December 2007 storm event. These three homes are all on the downhill side of 1st Avenue NW, and are the three lowest homes upstream of the maintenance hole at the intersection of NW 115th Street and 1st Avenue NW. This maintenance hole had a high water mark within 1 foot of the lid, which is at or above the elevation of the three homes that reported flooding. The maintenance hole at NW 115th Street and 1st Avenue NW has a 6-inch line coming in from the

problem area, and a 12-inch line running through perpendicular to the 6-inch line. The slope of the 12-inch line is considerably steeper than the 6-inch line.

Focus Area J

Three houses in the area reported problems during the December 2007 storm event. The street has a gentle, though fairly constant slope through problem area. One house that reported flooding problems does not appear to have a basement and is considerably higher than the nearby maintenance hole and surrounding houses. The maintenance hole in front of 10737 Dayton had a high water mark within 3 feet of the top of the maintenance hole. The house on the east side of the street near the maintenance hole is below the elevation of the high water mark. Houses on the next block downstream also reported problems, and just downstream of this block the sanitary sewer line tees into a 10-inch line that runs under NW 105th Street. The sanitary sewer line near the problem homes only has a three block contributing area.

Focus Area K

The house that reported a backup does not appear to be lower than surrounding homes. The street has a constant gentle grade past the problem home. A maintenance hole 200 feet downstream had a high water mark within 3 feet of the maintenance hole lid. The contributing area to the sanitary sewer line near the problem home is four blocks.

Focus Area L

One house reported a flooding problem; however, the nearby homes appear to be lower. About 200 feet downstream of problem site, the 6-inch line tees into a 10-inch line under NW 105th Street. This 10-inch line is very flat and could be causing backwater effects.

Focus Area M

Two houses reported backups in December of 2007, and other neighbors have had problems historically. The sanitary sewer line under NW 105th Street is a 10-inch pipe at a steep grade upstream of the problem site. The grade flattens past the problem houses to 3rd Avenue NW. The maintenance hole 200 feet upstream of 3rd Avenue NW shows signs of backwater at three feet below the maintenance hole lid, and some of the homes that reported problems are lower than this high water mark.

Focus Area N

A 14-unit apartment complex and two homes downhill reported sanitary sewer backups in December 2007. Other homes further downhill have reported problems historically. The maintenance hole downhill of the apartment building shows backwater near the maintenance hole lid. This high water mark is higher than the downstream homes, and slightly lower than the uphill apartments. The houses on the other side of the street did not report flooding, and have side sewers that connect to the main line half a block downstream. The 10-inch line has a 20 block contributing area, but is also quite steep through the problem area.