

APPENDIX F

**COMPILATION
OF DUPLICATE FORMS**

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VIDEO TAPE NO. _____

COMMUNITY _____

DATE: _____

PIPE LOCATION _____

SURFACE OVER SEWER: ASPHALT CONCRETE GRASS OTHER _____

PIPE SIZE / DEPTH / MAT'L _____ / _____ / _____

WEATHER: SUNNY RAIN SNOW TEMP: _____

CLEANING: NONE JET ROOT CUTTING OTHER _____

IN CONJUNCTION WITH DYE-FLOODING: YES NO

CREW CHIEF: _____

MH# MH#
0 0

DIRECTION OF FLOW	_____
DIRECTION OF CAMERA	_____



FOOTAGE	SERVICE CONNECTIONS	REMARKS	I/I (gpm)

EXAMPLE REMARKS:

- Brick demortared, but still intact
- Brick missing, backfill showing
- Camera blocked; unable to proceed
- Camera submerged
- Crack in pipe - lateral
- Crack in pipe - transverse
- Corrosion (indicate severity)
- Collapsed pipe
- Damage (specify type)
- Debris accumulated in invert
- Distorted shape
- Flow depth
- Infiltration flow rate

- Inflow rate
- Grease accumulation
- Invert damage (specify)
- Offset joint
- Separated joint
- Leakage observed
- Mineral deposits
- Root intrusion
- Sagged line
- Abandoned tap
- Protruding tap
- Tap with roots
- Structural damage (spalled concrete, loose bricks)

SEWER INSPECTION DATA SHEET

COMMUNITY: _____

INSPECTION CREW: _____

WEATHER: TEMP: _____ SUNNY RAIN SNOW

DATE	SECTIONS LAMPED (MH TO MH, LIN. FT.)	OBSERVATIONS

SEWER LAMPING DATA SHEET

DATE: _____ VIOLATION: YES NO ENTRY REFUSED
 COMMUNITY: _____ INSPECTOR: _____
 BUILDING TYPE: RESIDENTIAL COMMERCIAL INDUSTRIAL
 ADDRESS: _____ OWNER: _____
 BASEMENT: YES NO CRAWL SPACE: _____
 SUMP PUMPS:

TYPE	DISCHARGE TO	SUMP BOTTOM SEALED?	TYPE	DISCHARGE TO
			A. SANITARY	SANITARY SEWER
			B. STORM	STORM SEWER
			C. COMBINED	OUTSIDE SURFACE
			D. NONE	UNKNOWN

IF TWO OR MORE SUMPS EXIST, ARE THEY PIPED TOGETHER?

INFLOW SOURCE	NUMBER	DISCHARGE TO:
Foundation Drains		
Window Wells		
Stairwell Drain		
Floor Drain		
Downspout		Underground
Downspout		Surface
Yard Drains		
Driveway Drains		
Other (Specify)		

How long has owner lived there?
 Have they experienced any sewer backups?
 REMARKS:

BUILDING INSPECTION DATA SHEET

DATE: _____

COMMUNITY: _____ JOB NO. _____

SET-UP LOCATION: _____

START/END TIME: ____ / ____ CREW: _____

TYPE OF SET UP: STORM SEWER DIA. _____ CATCH BASIN _____
DITCH _____

PRIVATE SECTOR TEST: DOWNSPOUT _____ DRIVEWAY DRAIN _____
WINDOW WELLS _____ OTHER _____





TEST(MH/MH): ____ / ____

FLOW DEPTH BEFORE FLOOD (MH/TIME/DEPTH): ____ / ____ / ____ INCH

FLOW DEPTH FOLLOWING DYE OBSERVATIONS (MH/TIME/DEPTH): ____ / ____ / ____ INCH

CONCENTRATION OF DYE OBSERVATION: TRACE MEDIUM HEAVY

NO DYE OBSERVED (MH/TIME): ____ / ____

SKETCH	SKETCH OF SET UP
<p>LEGEND</p> <ul style="list-style-type: none">  SANITARY SEWER  STORM SEWER  CATCH BASIN  FIRE HYDRANT FL FILLING LOCATION X PLUG 	

REMARKS: _____

DYED WATER TESTING DATA SHEET

COMMUNITY: _____ DATE: _____

CREW NAMES: _____

Set-Up Information: Pipe Size Smoked: _____

Length of Pipe/MH to MH: _____ ft./ MH No. _____ to MH No. _____

Type of Smoke Bomb Used: _____ 3 min. _____ 5 min. _____ other _____

LEGEND		SKETCH OF SET-UP		
●	Sanitary MH			
○	Storm MH			
—	Sanitary Sewer			
.....	Storm Sewer			
Source of Smoke	Description of Source of Smoke (address/other)	Surface Type/Area Drained by Source of Smoke	Address Where Vent Pipes Showed No Smoke	Photo No.

POTENTIAL SOURCES OF SMOKE

- 01 Downspout
- 02 Roof Drain
- 03 Yard Drain
- 04 Catch Basin
- 05 Storm Sewer Manhole
- 06 Manhole Frame
- 07 Cracked Pavement
- 08 Lateral
- 09 Surface Over Sewer
- 10 Sump Pump
- 11 Foundation Wall
- 12 Driveway Drain
- 13 Other - Describe

Additional Observations: _____

LOCATION OF WORK: (Name of Plant, Name of Confined Space)

DESCRIPTION OF WORK:

EMPLOYEES ASSIGNED:

ENTRY DATE:

ISOLATION CHECKLIST:

- Blanking and/or Disconnecting Piping
- Electrical Lockout and Danger Tags
- Mechanical
- Other

HAZARDOUS WORK TO BE DONE:

- Burning
- Welding
- Brazing
- Open Flame, Sparks
- Cleaning (solvents, water blast, sandblast)
- Other

HAZARDS EXPECTED:

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none">1. Restrictive Opening2. Oxygen Deficiency, Enrichment3. Flammable Materials4. Toxic Materials5. Corrosive Materials6. Dusty Materials7. Darkness (Inside, Outside)8. Slippery Surfaces | <ol style="list-style-type: none">9. Water (Standing, Flowing)10. Inlet Drain Open11. Bacteria, Vermin12. Hot Surfaces13. Low Headroom14. Noise15. Other |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

PERSONAL SAFETY:

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none">1. Training (This Assignment)2. Emergency Procedures (See Below)3. Clothing4. Head, Hand, Foot, Ear Protection5. Respirators6. Safety Line and Harness7. Communications | <ol style="list-style-type: none">8. Traffic Controls9. Ventilation10. Lighting11. Ladder, Handlines12. Personnel Hoist13. Fire Extinguisher14. Other |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

CONFINED SPACE ENTRY PERMIT AND RECORD

ATMOSPHERIC TESTS (OXYGEN, FLAMMABLE, TOXIC)

TIME	TEST	READING	TIME	TEST	READING
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Tests Performed By: _____
Signature

EMERGENCY PROCEDURES

Standby Person(s) _____

Telephone, Emergency Notification (To Whom? How?) _____

Rescue Procedure (By? How?) _____

AUTHORIZATION:

Plant Manager _____
Signature Date

BOND

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HEADING			
TYPE OF PERMIT:		VESSEL ENTRY <input type="checkbox"/> HOT WORK <input type="checkbox"/> OTHER <input type="checkbox"/> PERMIT NO. _____	
GOOD ON THIS DATE ONLY:		FROM:	AM <input type="checkbox"/> PM <input type="checkbox"/> TO: AM <input type="checkbox"/> PM <input type="checkbox"/>
LOCATION: _____			
WORKERS AUTHORIZED ENTRY:	WORK MONITORS:	FIRE WATCH: (HOT WORK ONLY)	
_____	_____	_____	
_____	_____	_____	
_____	_____	_____	
DESCRIPTION OF JOB OR SPECIAL PROCEDURES: _____			

EMPLOYEE TRAINING AND PRE-ENTRY BRIEFING	
1. SAFE ENTRY AND RESCUE TRAINING CONDUCTED ON: _____	(DATE)
2. MANDATORY PRE-ENTRY BRIEFING CONDUCTED ON: _____	(DATE)
3. DOES THE JOB REQUIRE SPECIAL TRAINING? YES <input type="checkbox"/> NO <input type="checkbox"/>	

CONTRACTOR NOTIFICATION		
CONTRACTOR NOTIFIED OF: _____	PERMIT CONDITIONS <input type="checkbox"/>	POTENTIAL HAZARDS <input type="checkbox"/> N/A <input type="checkbox"/>

LIGHTING REQUIREMENTS	SPECIAL TOOLS/EQUIPMENT	COMMUNICATION DEVICES
_____	_____	_____
_____	_____	_____

1. ARE ALL ELECTRICAL DEVICES INTRINSICALLY SAFE?	YES <input type="checkbox"/> N/A <input type="checkbox"/>
2. HAVE ALL POWER CORDS AND TOOLS BEEN VISUALLY INSPECTED?	YES <input type="checkbox"/> N/A <input type="checkbox"/>

PRE-ENTRY ATMOSPHERIC TESTING	READING:	TIME:	INITIALS:
1. TEST FOR OXYGEN CONTENT:	_____ %O2	_____	_____
2. TEST FOR FLAMMABLE CONCENTRATION:	_____ %LEL	_____	_____
3. TEST FOR TOXIC CONCENTRATION:	_____ PPM OF _____ (TLV= _____)	_____	_____
4. TEST FOR HEAT STRESS HAZARD:	_____ °F <input type="checkbox"/> °C <input type="checkbox"/> WBGT	_____	_____

EMERGENCY/RESCUE PROCEDURES	
1. LOCATION OF WRITTEN EMERGENCY RESCUE PLAN	_____
2. TYPE OF EMERGENCY RESCUE TEAM REQUIRED:	ON-SITE <input type="checkbox"/> OFF-SITE <input type="checkbox"/> PHONE NO. _____

SAFETY EQUIPMENT	
PERSONNEL PROTECTIVE EQUIPMENT REQUIRED:	AREA SAFETY EQUIPMENT REQUIRED:
_____	_____
_____	_____
1. SELF-CONTAINED BREATHING APPARATUS REQUIRED?	YES <input type="checkbox"/> NO <input type="checkbox"/> TYPE _____
2. PORTABLE ATMOSPHERIC MONITOR REQUIRED?	YES <input type="checkbox"/> NO <input type="checkbox"/> TYPE _____

PERMIT AUTHORIZATION	
I CERTIFY THAT I HAVE INSPECTED THE WORK AREA FOR SAFETY AND REVIEWED ALL SAFETY PRECAUTIONS RECORDED ON THIS PERMIT.	
PERMIT AUTHORIZED BY (SIGNATURE)	_____

N/A = NOT APPLICABLE TO PRESENT JOB

TODAY'S DATE _____

DATE WORK WILL BE DONE _____

WORK TO DO	MAJOR HAZARDS EXPECTED	PRECAUTIONS TO CONTROL HAZARDS

SAFE JOB INSTRUCTIONS SHEET

Department: _____ Section: _____ Index No. _____

Name of Injured Employee: _____ Social Security No. _____

Home Address of Employee: _____ Phone: _____

Date of Birth: _____ Sex: M F Wage at Time of Accident: _____

No. of Hours Worked: Per Day: _____ Per Week: _____ No. of Days Per Week: _____

Classification: _____ Date of Hire: _____

Place of Accident: _____ City/Town: _____

Date of Accident: _____ Time: _____ Date Reported: _____ Time: _____

Did employee return to work on date of injury? _____ Lost Time: _____ Days/Hr.

Was employee off work beyond date of injury? _____

If so, last date worked: _____

Nature of injury (specify part of body injured?): _____

Was employee acting in regular line of duty when injured? _____

If No, Explain: _____

How did the accident occur? _____

Was first aid given? _____ By whom? _____

Doctor: _____ Address: _____

Hospital (If Any): _____ Address: _____

What machine, tool substance, or object was most closely connected with the accident? _____

Were mechanical guards or other safeguards provided? _____

Were mechanical guards or other safeguards used? _____

What, in your opinion, caused the accident? _____

Describe Any Unsafe Act: _____

Describe Any Unsafe Conditions: _____

What has been done to prevent a similar accident? _____

Witnesses: _____

Signed: _____

Date: _____

Phone: _____

For Further Particulars Please Use Reverse Side

SUPERVISOR'S REPORT OF ACCIDENT

1. PHYSICIANS/AMBULANCE/HOSPITAL

Office Phone Home

Dr. _____

Dr. _____

Ambulance _____

Ambulance _____

Hospital _____

Hospital _____

2. FIRE

Department _____

Department _____

3. POLICE

Town Police _____

County Sheriff _____

Deputy _____

State Police _____

Headquarters _____

4. POWER COMPANY

Name _____

Name _____

5. TELEPHONE COMPANY

Name _____

Name _____

6. GAS COMPANY

Name _____

Name _____

7. ELECTRICIANS

Name _____

Name _____

Name _____

8. PLUMBERS

Name _____

Name _____

9. HEAVY EQUIPMENT OPERATORS

Name _____

Type of Equipment Available _____

Name _____

Type of Equipment Available _____

		Office	Phone	Home
10. EXTRA LABOR	Name _____	_____	_____	_____
	Name _____	_____	_____	_____
11. CONSULTING ENGINEER	Name _____	_____	_____	_____
	Name _____	_____	_____	_____
12. TOWN OFFICIALS	Name _____	_____	_____	_____
	Name _____	_____	_____	_____
	Name _____	_____	_____	_____
	Name _____	_____	_____	_____
13. COUNTY HEALTH DEPARTMENT	Official _____	_____	_____	_____
	Official _____	_____	_____	_____
14. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	Name _____	_____	_____	_____
	Name _____	_____	_____	_____
15. FEDERAL ENVIRONMENTAL PROTECTION AGENCY REGIONAL OFFICE	Official _____	_____	_____	_____
	Official _____	_____	_____	_____
16. AREA CIVIL DEFENSE	Official _____	_____	_____	_____
	Official _____	_____	_____	_____
17. OTHER	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

LIST OF EMERGENCY TELEPHONE NUMBERS (Cont.)

COMMUNITY/AGENCY NAME _____

MONTH _____ YEAR _____

PREPARED BY _____ TITLE _____

MONTHLY SEWER SYSTEM OPERATING AND MAINTENANCE COSTS

O&M TASK DESCRIPTION	UNIT OF MEASURE	UNITS THIS PERIOD		LABOR HOURS	LABOR COST	MATERIAL COST	EQUIPMENT COST	TOTAL COST	COMMENTS
		UNITS BUDGETED	UNITS ACTUAL						
ROUTINE O&M COSTS									
Lift Station O&M	Each								
Sewer Cleaning	Ln. Ft.								
Roof Cutting	Ln. Ft.								
Minor Sewer Repairs	Ln. Ft.								
Manhole Repairs	Ln. Ft.								
Sewer System Inspections									
Sewer Pipe	Ln. Ft.								
Manholes	Each								
New Construction	Each								
Flow Monitoring									
Response to Customer	Ln. Ft.								
Complaints	Each								
Subtotal O&M Costs									
Overhead									
Vehicle/Equipment	Hours								
Maintenance	Hours								
Administration	Hours								
Supervision	Hours								
Insurance	Hours								
Vacation Leave	Hours								
Holiday Leave	Hours								
Sick Leave	Hours								
Workmen Compensation	Hours								
Training	Hours								
Subtotal Overhead Costs									
Total Routine O&M Costs									

MONTHLY OPERATIONS AND MAINTENANCE COST FORM

O&M TASK DESCRIPTION	UNIT OF MEASURE	UNITS THIS PERIOD		LABOR HOURS	LABOR COST	MATERIAL COST	EQUIPMENT COST	TOTAL COST	COMMENTS
		UNITS BUDGETED	UNITS ACTUAL						
ABNORMAL O&M COSTS									
Engineering Studies	Each								
Outside Contracts	Each								
Consulting Services	Each								
New Equipment Purchases	Each								
Replacement Equipment	Each								
Total Abnormal O&M Costs									
TOTAL MONTHLY COSTS									

MONTHLY OPERATIONS AND MAINTENANCE COST FORM (CONT.)

Sample Index for Account Numbers,
Department Numbers, and Type of
Work Codes.

<u>Project or Account No.</u>	<u>Account Abbreviation</u>
XXXX	Sewer Cleaning
XXXX	Inspections
XXXX	Rehabilitation
XXXX	Budgeting
XXXX	Etc.
<u>Dept. No.</u>	<u>Account Abbreviation</u>
XXXX	Operation and Maintenance
XXXX	Civil Engineering
XXXX	Purchasing
XXXX	Etc.
<u>Type of Work Codes</u>	<u>Account Abbreviation</u>
XX	Administrative
XX	Training
XX	Technical Report Writing
XX	Sewer Balling
XX	Manhole Inspections
XX	Replacing Manhole Covers
XX	Etc.

TO:

PURCHASE ORDER NUMBER: _____

WORK ORDER NUMBER: _____

DATE INITIATED: _____

DATE REQUIRED: _____

SHIP TO:

SHIP VIA: _____

F.O.B.: _____

TERMS: _____

DATE RECEIVED: _____

QUANTITY	STOCK NUMBER/DESCRIPTION	PRICE	PER	TOTAL

APPROVED BY: _____ DATE: _____

SHEET _____ OF _____

PURCHASE ORDER FORM

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Agency _____ Prepared by _____

19__ Month	Direct Labor S.T.	Overtime	Overhead	Utility Costs	New Equip. Purchases	Equip. Repair	Equip. Rental	Consultant Fees	Contractor Fees	Misc.	TOTAL
JAN											
FEB											
MAR											
APR											
MAY											
JUNE											
JULY											
AUG											
SEPT											
OCT											
NOV											
DEC											
TOTAL											

ANNUAL COST SUMMARY FORM

EQUIPMENT NAME AND NUMBER		SERIAL NO.	LOCATION
DATE OF TROUBLE	TIME	REPORTED BY	SHIFT
INDICATION OF TROUBLE <input type="checkbox"/> BROKEN PART <input type="checkbox"/> DIRTY, FOULED <input type="checkbox"/> WORN PART <input type="checkbox"/> VOLTAGE <input type="checkbox"/> HEAT <input type="checkbox"/> CURRENT <input type="checkbox"/> NOISE <input type="checkbox"/> RESISTANCE <input type="checkbox"/> SMELL <input type="checkbox"/> FLOW RATE <input type="checkbox"/> VIBRATION <input type="checkbox"/> PRESSURE <input type="checkbox"/> LEAKING <input type="checkbox"/> SPEED <input type="checkbox"/> OTHER _____ _____ _____ _____		WHEN DISCOVERED <input type="checkbox"/> STARTING <input type="checkbox"/> STOPPING <input type="checkbox"/> DURING OPERATION <input type="checkbox"/> DURING PREVENTIVE MAINT. <input type="checkbox"/> DURING CORRECTIVE MAINT. <input type="checkbox"/> DURING OVERHAUL <input type="checkbox"/> OTHER _____ _____ _____ _____	
		CAUSE OF TROUBLE <input type="checkbox"/> HEAT/COLD/WEATHER <input type="checkbox"/> HUMIDITY/MOISTURE <input type="checkbox"/> FOREIGN OBJECT <input type="checkbox"/> SHOCK/VIBRATION <input type="checkbox"/> WEAR <input type="checkbox"/> EQUIPMENT DEFECT <input type="checkbox"/> IMPROPER INSTALLATION <input type="checkbox"/> IMPROPER LUBRICATION <input type="checkbox"/> IMPROPER OPERATION <input type="checkbox"/> OTHER _____ _____ _____	
REMARKS AND RECOMMENDATIONS _____ _____ _____ _____ _____ _____ _____ _____		CHECK IF EQUIPMENT WAS TAGGED OUT OF SERVICE <input type="checkbox"/>	

EQUIPMENT MALFUNCTION REPORT

DATE _____

OPERATOR _____

UNUSUAL CONDITION: CHECK (✓)

EXPLOSION

POWER FAILURE

FLOODING

FIRE

VANDALISM

LINE COLLAPSE OR BLOCKAGE

EQUIPMENT FAILURE

OTHER

REASON FOR CONDITION _____

DAMAGES, INJURIES, ETC. _____

ACTION TAKEN (WHO NOTIFIED, WHAT DONE) _____

REMARKS _____

SIGNED _____

OPERATOR ON DUTY

EMERGENCY CONDITIONS REPORT

DATE _____ TIME _____

COMPLAINT BY _____

ADDRESS _____

TELEPHONE _____

LOCATION OF COMPLAINT _____

DETAILS OF COMPLAINT _____

CHECK COMPLAINT

SEWER SYSTEM COMPLAINTS

- | | |
|-------------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/> MANHOLE COVER MISSING | <input type="checkbox"/> MANHOLE FLOODED |
| <input type="checkbox"/> MANHOLE COVER LOOSE OR NOISY | <input type="checkbox"/> STREET FLOODED |
| <input type="checkbox"/> ODORS-GASES | <input type="checkbox"/> YARD FLOODED |
| <input type="checkbox"/> MANHOLE CAVE-IN | <input type="checkbox"/> BUILDING FLOODED |
| <input type="checkbox"/> LINE CAVE-IN | <input type="checkbox"/> OTHER |

LIFT STATION COMPLAINTS

- | | |
|------------------------------------|-----------------------------------------|
| <input type="checkbox"/> ODORS | <input type="checkbox"/> UNKEPT GROUNDS |
| <input type="checkbox"/> FLOODING | <input type="checkbox"/> SPILLS |
| <input type="checkbox"/> STOPPAGES | <input type="checkbox"/> OTHER |

ACTION TO BE TAKEN:

- | | |
|-----------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> IMMEDIATE INSPECTION | <input type="checkbox"/> WATER DEPARTMENT NOTIFIED |
| <input type="checkbox"/> IMMEDIATE REPAIR | <input type="checkbox"/> HEALTH DEPARTMENT NOTIFIED |
| <input type="checkbox"/> OWNER'S REPAIR | <input type="checkbox"/> OTHER _____ |
| <input type="checkbox"/> FUTURE REPAIR | |

COMPLAINT RECEIVED BY: _____ DATE: _____

DATE: _____

Sewer Segment No. _____

Upstream MH ID No. _____

Rim/Inv El: _____/_____

Downstream MH ID No. _____

Rim/Inv El: _____/_____

Length of Sewer _____ feet

Pipe Material: _____

Pipe Diameter _____ inch

Joints: _____

Date Installed: _____

Type of Rehabilitation Completed:

- Service Connection Repair
- Spot Replacement
- Sewer Grouting (indicate number of joints) Sliplining
- Inversion Lining
- Manhole-to-Manhole Replacement
- Other _____

Exact location of work: _____

Crew Size Used: _____

Manhours Used: _____

Equipment Used: _____

Replacement/Repair Materials Used: _____

Comments: _____

SEWER SEGMENT REHABILITATION FORM

DATE: _____

Sewer Segment No. _____

Upstream MH ID No. _____

Rim/Inv El: _____/_____

Downstream MH ID No. _____

Rim/Inv El: _____/_____

Length of Sewer _____ feet

Pipe Material: _____

Pipe Diameter _____ inch

Joints: _____

Date Installed: _____

Cleaning Equipment Used: _____

Debris Severity Observed: _____

Types of Debris Observed:

- Grit
- Grease
- Roots
- Broken Pipe
- Other _____

Comments: _____

Debris Severity

0 - None

1 - Minor

2 - Moderate

3 - Severe

4 - Blockage

SEWER CLEANING FORM

DATE _____	REQUESTED BY _____	REQUIRED COMPLETION DATE _____
EQUIPMENT NAME AND NUMBER _____		SERIAL NO. _____
LOCATION _____		
INDICATION OF TROUBLE <input type="checkbox"/> BROKEN PART <input type="checkbox"/> DIRTY, FOULED <input type="checkbox"/> WORN PART <input type="checkbox"/> VOLTAGE <input type="checkbox"/> HEAT <input type="checkbox"/> CURRENT <input type="checkbox"/> NOISE <input type="checkbox"/> RESISTANCE <input type="checkbox"/> SMELL <input type="checkbox"/> FLOW RATE <input type="checkbox"/> VIBRATION <input type="checkbox"/> PRESSURE <input type="checkbox"/> LEAKING <input type="checkbox"/> SPEED <input type="checkbox"/> OTHER _____ _____	WORK TO BE DONE <input type="checkbox"/> INSPECT <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> SERVICE <input type="checkbox"/> OVERHAUL <input type="checkbox"/> PAINT <input type="checkbox"/> OTHER _____ _____	CAUSE OF TROUBLE <input type="checkbox"/> HEAT/COLD/WEATHER <input type="checkbox"/> HUMIDITY/MOISTURE <input type="checkbox"/> FOREIGN OBJECT <input type="checkbox"/> SHOCK/VIBRATION <input type="checkbox"/> WEAR <input type="checkbox"/> EQUIPMENT DEFECT <input type="checkbox"/> IMPROPER INSTALLATION <input type="checkbox"/> OTHER _____ _____
WORK REQUESTED _____ _____ _____ _____		ESTIMATED COSTS LABOR _____ PARTS _____ CONTRACTOR _____ TOTAL _____ ESTIMATED DOWN TIME _____
APPROVED BY _____	DATE _____	JOB NO. _____
MAINTENANCE WORK RECORD RECAP		
DESCRIBE WHAT WAS WRONG AND HOW IT WAS FIXED _____ _____		OUTSIDE CONTRACTOR USED _____
RECOMMENDATIONS FOR AVOIDING REPEATED FAILURE _____		REASON _____
EQUIPMENT STATUS AT COMPLETION <input type="checkbox"/> FULLY OPERATIONAL <input type="checkbox"/> NON-OPERATIONAL <input type="checkbox"/> REDUCED CAPABILITY <input type="checkbox"/> AWAITING SPARE PARTS	SPARE PARTS AVAILABILITY <input type="checkbox"/> IN STOCK <input type="checkbox"/> OBTAINED LOCALLY <input type="checkbox"/> DELAY IN PROCURING <input type="checkbox"/> LENGTH	ACTUAL COSTS LABOR _____ PARTS _____ CONTRACTOR _____ TOTAL DOWN TIME _____
WORK COMPLETED DATE _____ NAME _____		WORK APPROVED DATE _____ REQUESTOR _____

MAINTENANCE WORK ORDER

DATE: _____

Manhole ID No. _____

Rim/Inv El: _____/_____

Street Address/Location: _____

Manhole Type: _____

Cover Type: _____

Installation Date: _____

Type of Rehabilitation Completed:

- Cover Replacement
- Frame Seal
- Wall Repairs
- Pipe Connection Repair
- Replacement
- Bench and Channel Repairs

Equipment Used: _____

Crew/Contractor: _____

Time Required to Complete: _____

Replacement/Repair Materials Used: _____

Comments: _____

MANHOLE REHABILITATION FORM

DATE: _____

Manhole ID No. _____

Rim/Inv El: _____/_____

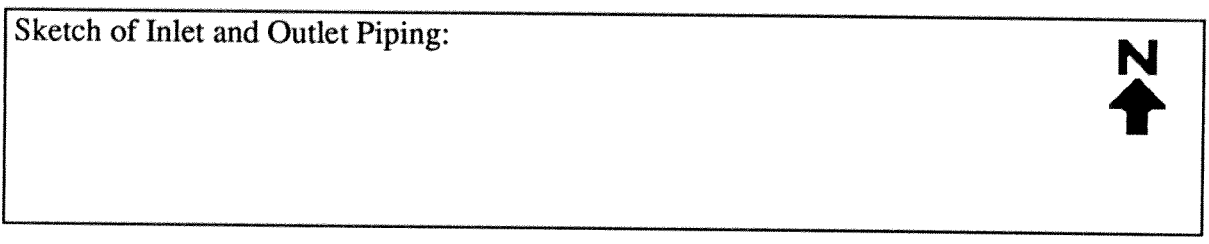
Street Address/Location: _____

Manhole Type: _____

Cover: _____

Installation Date: _____

Sketch of Inlet and Outlet Piping:



Flow Measuring Equipment:

- Dip Stick
- Weir
- Flume
- Flow Monitor (specify type)

Flow Measurement: _____ gpd

Time of Reading: _____ Weather: _____

Indicate weather conditions on the 3 days prior to this measurement:

Comments: _____

VISUAL FLOW CHECK FORM

DATE: _____

Lift Station No. _____

Location: _____

Pump Manufacturer: _____

Type of Pumps: _____

No. of Pumps: _____

Date Lift Station was Built: _____

Inspector(s): _____

Time Arrived: _____

Time Departed: _____

TASK	<u>COMPLETED</u>								
1. Check that electric power is on.	_____								
2. Make sure no circuit breakers have been tripped.	_____								
3. Read and record values on counters and timers.	_____								
<table border="1"> <thead> <tr> <th><u>Pump No.</u></th> <th><u>Running Time</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>_____</td> </tr> <tr> <td style="text-align: center;">2</td> <td>_____</td> </tr> <tr> <td style="text-align: center;">3</td> <td>_____</td> </tr> </tbody> </table>	<u>Pump No.</u>	<u>Running Time</u>	1	_____	2	_____	3	_____	
<u>Pump No.</u>	<u>Running Time</u>								
1	_____								
2	_____								
3	_____								
4. Inspect, clean, and lubricate motors and rings.	_____								
5. Inspect and clean wet well level sensor electrodes and bubbler tubes.	_____								
6. Inspect and clean motor starters and relays.	_____								
7. Check the operation of the gland water pump motors and electric valves.	_____								
8. Inspect and clean all automatic gate controls.	_____								
9. Check kilowatt meters and charts and record data.	_____								
10. Check the motor, heating elements and belts on auxiliary equipment. Replace any broken or worn parts. Parts Replaced _____	_____								
11. Check the float switches and motors on lift station sump pumps.	_____								

DAILY LIFT STATION INSPECTION FORM

TASK	COMPLETED
12. Inspect and clean bar screen or communitor controls.	_____
13. Inspect indicating lights on all equipment and telemetry equipment controls.	_____
14. Inspect pumps and bearings. Lubricate and repack if needed.	_____
15. Inspect and lubricate line shaft bearings.	_____
16. Inspect and lubricate gland water pumps and bearings.	_____
17. Make sure the pump packing is not leaking too much water and is not too tight.	_____
18. Inspect check valves and verify that they are not stuck either open or partially closed.	_____
19. Inspect sump pump floats and all discharge piping and valves.	_____
20. Check the position and operation of all flow control gates.	_____
21. Check the drives and screens on all mechanically cleaned bar screens.	_____
22. Inspect communitors for proper operation.	_____
23. Inspect, clean, and lubricate all air compressors.	_____
24. Manually clean bar screens.	_____
25. Make sure all vent fans and lights are operating properly.	_____
26. Enter any observed problems into the lift station log books.	_____
27. Pick up all debris inside and outside of the facility.	_____
28. Before leaving the facility make sure it is secure.	_____
29. Plow snow if necessary.	_____
Comments: _____	

DAILY LIFT STATION INSPECTION FORM (CONT.)

DATE: _____

Lift Station No. _____

Location: _____

Pump Manufacturer: _____

Type of Pumps: _____

No. of Pumps: _____

Date Lift Station was Built: _____

Inspector(s): _____

Time Arrived: _____

Time Departed: _____

TASK	<u>COMPLETED</u>
1. Check all equipment, piping and valves for leakage.	_____
2. Operate each wastewater pump in the "manual" or "hand" position and inspect the pump and motor for excessive noise or vibration.	_____
3. Check all motors for excessive temperature increases.	_____
4. Check all pressure and vacuum gauges.	_____
5. Inspect and clean sump pump wells if necessary.	_____
6. Clean the wet well of accumulated grease, floating debris, and grit.	_____
7. Clean and reposition floats and level sensor electrodes in the wet well.	_____
8. Inspect wet well piping and ladders.	_____
9. Mow the lift station yard if necessary.	_____
10. Wipe down all equipment.	_____
11. Replace recording charts as required.	_____
12. Exercise standby equipment to dry out water, redistribute lubricant and ensure operational readiness.	_____
13. Check operation of all lift station alarm systems.	_____

Comments: _____

WEEKLY LIFT STATION INSPECTION FORM

DATE: _____

Lift Station No. _____

Location: _____

Pump Manufacturer: _____

Type of Pumps: _____

No. of Pumps: _____

Date Lift Station was Built: _____

Inspector(s): _____

Time Arrived: _____

Time Departed: _____

<u>TASK</u>	<u>COMPLETED</u>
1. Operation all flow control gates and valves to prevent them from seizing.	_____
2. Remove the pump casing inspection plates and remove any debris that has accumulated.	_____
3. Check calibration and recalibrate flow meters.	_____
4. Clean all ventilation openings.	_____
5. Check first aid supplies.	_____
6. Take inventory of spare parts. Verify that depleted parts have been ordered.	_____
7. Check the condition of paint both inside and outside the lift station.	_____

Comments: _____

MONTHLY LIFT STATION INSPECTION FORM

DATE: _____

Lift Station No. _____

Location: _____

Pump Manufacturer: _____

Type of Pumps: _____

No. of Pumps: _____

Date Lift Station was Built: _____

Inspector(s): _____

Time Arrived: _____

Time Departed: _____

TASK	<u>COMPLETED</u>
1. Dismantle the wastewater pumps to inspect the impellers, shafts, and shaft sleeves.	_____
2. Inspect and clean all components of the ventilating fans, heaters, sump pumps, and dehumidifiers.	_____
3. Inspect the condition of all electrical equipment.	_____
4. Paint areas both inside and outside of the lift station as needed.	_____
5. Inspect the inlet and outlet piping at the lift station. Clean the piping if needed.	_____
6. Check flowmeter calibration and recalibrate if necessary.	_____

Comments: _____

ANNUAL LIFT STATION INSPECTION FORM

DATE: _____

Inverted Siphon No. _____

Type: _____

Pipe Diameters:

Location: _____

Pipe No. 1: _____ inch

Length: _____

Pipe No. 2: _____ inch

Pipe Material: _____

Date Installed: _____

Pipe Inverts: _____

Inspectors: _____

Time Arrived: _____

Time Departed: _____

Atmospheric Testing Results:

Inlet Structure: _____

Outlet Structure: _____

Flow measurement upstream of siphon: _____ gpd

Flow measurement downstream of siphon: _____ gpd

<u>TASK</u>	<u>COMPLETED</u>
1. Mechanical parts inspected for debris.	_____
2. Check that hatches to inlet and outlet structures are secure.	_____
3. Check that air vent piping between inlet and outlet structures is working properly.	_____
4. Exercise slide gates.	_____

INVERTED SIPHON INSPECTION FORM