

# Gas Infrastructure

GAS SHUTOFF - Address Query - Microsoft Internet Explorer

**Legend:**

- Steel
- Wood
- Unknown
- Gas Distribution
- Nodes
  - ABANDONED
  - ANODE
  - BLOCK VALVE
  - BLOWDOWN
  - BLOWOFF VA
  - BLOWTEE
  - BULK METER
  - BURNOFF
  - CURBSTOP
  - ENERGY VAL
  - FLANGED VAI
  - GAS LAMP
  - INACTIVE ME
  - LINE STOPPE
  - METER
  - REGULATOR
  - SERVICE POI
  - SERVICE REC
  - SHUTOFF VAI
  - SIDE VALVE
  - SYPHON
  - All Others
- Pipes
  - ABANDONED
  - BULK SERVIC
  - INACTIVE SEI
  - MAIN
  - MAIN SERVIC
  - MANIFOLD PI
  - SERVICE
  - WPP MONITC
  - All Others
- Parcels
- Orthophotos 20cm F

**Summary Report**

Criteria: address=5\_\_A .ST\_ Date: 4/2/2003

TYPE	SERVICES	VALVES
Direct	12	2
Indirect	0	0
Redundant	-	0

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**Update/Edit: GP-MSD appliance record - Microsoft Internet Explorer**

SERVICE LOCATION	5A	Text	40
ACCOUNT NO	11	Text	12
RECORD	5000	Integer	4
CURBSTOP	N	Text	1
SECTION	6	Integer	2
PRESSURE	1	Text	1
LIGHTUP	25	Integer	4
INSPECTION CYCLE	0	Integer	2
LAST INSPECTION	23-Nov-88	Date	8
INSPECTOR		Text	6
COMMENT1		Text	20
COMMENT2		Text	20
COMMENT3		Text	20
COMMENT4		Text	20
APPLIANCES		Text	1
EXCEED 10		Text	1
APPLIANCE1	BOILER	Text	20
BTU1	200000	Integer	10

**Summary Report**

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TYPE	SERVICES	VALVES
Direct	12	2
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## Introduction

The Hunter GIS Gas Infrastructure Solution is designed to access local and/or remote servers with Base Mapping, Orthophotos, Single Line Street Networks, Parcel Tax Assessment, Call Centre and Corporate Billing Information more efficiently maintained and shared by others. Published Gas Distribution Infrastructure data may be subscribed to Customer Call Centre, Dispatch, 'One Call' and Emergency Response agencies.

Important features and capabilities include:

### ***Distribution Infrastructure***

- Layer based schema for gas distribution infrastructure
- Integrated new service application, existing service, appliance and distribution valve databases
- Integrated Street Intersection and Street Name "Zoom Goto" functions
- Address based querying for gas service and parcel location
- "List Streets" function for rapid address based queries
- "List Fields" function to assist in generating complex ad-hoc queries
- Integrated multi-function SQL queries and hyperlinked on-screen reporting
- Hyperlinked access to archived design and construction drawings for desktop viewing
- Integrated Data Quality and User Beware features

### ***Construction, Breaks and Maintenance History***

- Construction, breaks and maintenance history linked to pipe features or Single Line Street Network

### ***Gas Shutoff***

- Gas shutoff valve query based on connectivity within network topology
- Identifies valves required to isolate the selected feature
- Determines all connected pipe sections, valves and services affected (direct, indirect or redundant)
- "List Record" function to preview/confirm features selected for isolation
- Results output to the desktop allowing multi-user connection to the application
- Generation of light-up sequences, notification lists and mailing labels

### ***Meter and Appliance Management***

- Integrated meter and appliance management databases
- Planning period, date based record retrieval for scheduled, backlog, completed and cancelled inspections and testing
- Address based querying for meters and parcels
- Meter number based querying to find location and meter database information
- Possible live links to SCADA and metered flow data for remote monitoring

### ***Work Performance***

- Planning period, date based record retrieval for scheduled, backlog, completed and cancelled transaction history
- Integrated links to Customer Call Centre for complaints and work order generation for new services and maintenance
- Hyperlinked access from work orders to infrastructure information
- Capability for live links to automated meter reading and video monitoring
- ODBC/OLEDB links to Corporate Billing and other databases

### ***Gas Modelling***

- Display of gas infrastructure and modelling results (pressures, velocities and pipe flows) from third party software
- Integrated Street Intersection and Street Name "Zoom Goto" functions
- Loads at model nodes apportioned to customers based on Corporate Billing information
- Selected OBM layer based schema for reference