

**FORMER GASTOWN MGP SITE  
SITE NO. 915171**

**2002 SITE VISIT CHECKLISTS  
FOR THE GROUNDWATER COLLECTION  
& TREATMENT SYSTEM**

Site Visit Checklist are not available for the period  
January through June, 2002.

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes ✓	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes ✓	No
Green warning light operational?	Yes ✓	No
DNAPL drum container condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Decant valve integrity.	Good ✓	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good ✓	Poor
DNAPL pump cleaned?	Yes	No ✓
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes ✓	No
LNAPL pump pressure (arrival)	38	PSI
LNAPL pump pressure (departure)	38	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good ✓	Poor
LNAPL pump cleaned?	Yes	No ✓
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	Yes ✓	No
High level water shut-off operational?	Yes ✓	No
White warning light operational?	Yes ✓	No
Separator vessel condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Separator cover and seal condition.	Good ✓	Poor
Decant valve integrity.	Good ✓	Poor
LNAPL in separator?	Yes	No ✓
Separator needs cleaning?	Yes	No ✓
Separator cleaned?	Yes	No ✓
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	Good ✓	Poor
LNAPL drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes ✓	No

Technician: RK Date: 7/8/02

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	Good ✓	Poor
Equalization drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes ✓	No
<b>Filter PSI -</b>	6.0	
<b>Transfer Pump and Piping</b>		
Pump operational?	Yes ✓	No
Pump condition.	Good ✓	Poor
Flow meter operational?	Yes ✓	No
Transfer pump flow rate.	8.48	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	Good ✓	Poor
Primary carbon unit leaks?	Yes	No ✓
Primary carbon unit pressure.	1.0	PSI
Primary carbon removed for disposal?	Yes	No ✓
Secondary carbon unit rotated to primary?	Yes	No ✓
New carbon placed in primary unit?	Yes	No ✓
Secondary carbon unit condition.	Good ✓	Poor
Secondary carbon unit leaks?	Yes	No ✓
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No ✓
Polishing unit rotated to secondary?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
Polishing carbon unit condition.	Good ✓	Poor
Polishing carbon unit leaks?	Yes	No ✓
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good ✓	Poor
Pipe integrity at catch basin.	Good ✓	Poor
Pipe at catch basin clear?	Yes ✓	No
Pipe integrity at creek.	Good ✓	Poor
Pipe at creek clear?	Yes ✓	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	Good ✓	Poor
Shed ventilation acceptable?	Yes ✓	No
Repairs/work needed?	Yes ✓	No
Spill evidence?	Yes ✓	No
<b>Electrical/Heating</b>		
Electric controls operational	Yes	No ✓
Heater operational	Yes	No ✓

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	Good ✓	Poor
Work needed on vault?	Yes	No ✓
<b>Air Compressor</b>		
Compressor operational?	Yes ✓	No
Compressor hours.	2345.4	Hours
Oil level checked?	Yes ✓	No
Oil level changed?	Yes	No ✓
Compressor trap operating?	Yes ✓	No
Regulator operating?	Yes ✓	No
Air lines performing properly?	Yes ✓	No

Sampling		
Pre-carbon water sampled?	Yes	No ✓
Pre-carbon sample ports clear?	Yes ✓	No
Mid-carbon water sampled?	Yes	No ✓
Mid-carbon sample ports clear?	Yes ✓	No
Post carbon water sampled?	Yes	No ✓
Post carbon sample ports clear?	Yes ✓	No
Time sampled?	NA	a.m./p.m.
Compliance event?	Yes	No ✓
Product sampled?	Yes	No ✓

Recovery and Disposal		
Totalizer reading.	443452	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	3.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
DNAPL/water to oil/water separator.	60.0	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	0.0	Gallons
LNAPL/water to disposal drum..	0.0	Gallons
LNAPL/water to oil/water separator.	0.0	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	Yes ✓	No

NOTES: Repaired DNAPL Drum TOTALIZER

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes ✓	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↖	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes ✓	No
Green warning light operational?	Yes ✓	No
DNAPL drum container condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Decant valve integrity.	Good ✓	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good ✓	Poor
DNAPL pump cleaned?	Yes	No ✓
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes ✓	No
LNAPL pump pressure (arrival)	38	PSI
LNAPL pump pressure (departure)	38	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↖	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good ✓	Poor
LNAPL pump cleaned?	Yes	No ✓
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	Yes ✓	No
High level water shut-off operational?	Yes ✓	No
White warning light operational?	Yes ✓	No
Separator vessel condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Separator cover and seal condition.	Good ✓	Poor
Decant valve integrity.	Good ✓	Poor
LNAPL in separator?	Yes	No ✓
Separator needs cleaning?	Yes	No ✓
Separator cleaned?	Yes	No ✓
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	Good ✓	Poor
LNAPL drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes ✓	No

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	Good ✓	Poor
Equalization drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes	No
<b>FILTER UNIT</b>		
6.0/5.0		
<b>Transfer Pump and Piping</b>		
Pump operational?	Yes ✓	No
Pump condition.	Good ✓	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.12/8.48	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	Good ✓	Poor
Primary carbon unit leaks?	Yes	No ✓
Primary carbon unit pressure.	1.0	PSI
Primary carbon removed for disposal?	Yes	No ✓
Secondary carbon unit rotated to primary?	Yes	No ✓
New carbon placed in primary unit?	Yes	No ✓
Secondary carbon unit condition.	Good ✓	Poor
Secondary carbon unit leaks?	Yes	No ✓
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No ✓
Polishing unit rotated to secondary?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
Polishing carbon unit condition.	Good ✓	Poor
Polishing carbon unit leaks?	Yes	No ✓
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good ✓	Poor
Pipe integrity at catch basin.	Good ✓	Poor
Pipe at catch basin clear?	Yes ✓	No
Pipe integrity at creek.	Good ✓	Poor
Pipe at creek clear?	Yes ✓	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	Good ✓	Poor
Shed ventilation acceptable?	Yes ✓	No
Repairs/work needed?	Yes	No ✓
Spill evidence?	Yes	No ✓
<b>Electrical/Heating</b>		
Electric controls operational	Yes ✓	No
Heater operational	Yes ✓	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	Good ✓	Poor
Work needed on vault?	Yes	No ✓
<b>Air Compressor</b>		
Compressor operational?	Yes ✓	No
Compressor hours.	2349.8	Hours
Oil level checked?	Yes ✓	No
Oil level changed?	Yes	No ✓
Compressor trap operating?	Yes ✓	No
Regulator operating?	Yes ✓	No
Air lines performing properly?	Yes ✓	No

Sampling		
Pre-carbon water sampled?	Yes	No ✓
Pre-carbon sample ports clear?	Yes ✓	No
Mid-carbon water sampled?	Yes	No ✓
Mid-carbon sample ports clear?	Yes ✓	No
Post carbon water sampled?	Yes ✓	No
Post carbon sample ports clear?	Yes ✓	No
Time sampled?	NA	a.m./p.m.
Compliance event?	Yes	No ✓
Product sampled?	Yes	No ✓

Recovery and Disposal		
Totalizer reading.	444570	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	1.5	Gallons
DNAPL/water to disposal drum.	1.5	Gallons
DNAPL/water to oil/water separator.	38	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	—	Gallons
LNAPL/water to disposal drum..	—	Gallons
LNAPL/water to oil/water separator.	—	Gallons
<b>Product, Carbon, Waste Storage</b>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	Yes ✓	No

NOTES:

Technician: RK Date: 7/12/02

TerraTech, Albany DEC, ED WATTS PERSONAL & pulse Test contractor onsite - setting up pulse Test Equipment - Test TO START SATURDAY. CHARGED OUT H2O FILTERS IN TEST ANTICIPATION

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes ✓	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes ✓	No
Green warning light operational?	Yes ✓	No
DNAPL drum container condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Decant valve integrity.	Good ✓	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good ✓	Poor
DNAPL pump cleaned?	Yes	No ✓
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes ✓	No
LNAPL pump pressure (arrival)	38	PSI
LNAPL pump pressure (departure)	38	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good ✓	Poor
LNAPL pump cleaned?	Yes	No ✓
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	Yes ✓	No
High level water shut-off operational?	Yes ✓	No
White warning light operational?	Yes ✓	No
Separator vessel condition.	Good	Poor
Leaks present?	Yes	No ✓
Separator cover and seal condition.	Good ✓	Poor
Decant valve integrity.	Good ✓	Poor
LNAPL in separator?	Yes	No ✓
Separator needs cleaning?	Yes	No ✓
Separator cleaned?	Yes	No ✓
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	Good ✓	Poor
LNAPL drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes ✓	No

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	Good ✓	Poor
Equalization drum leaks?	Yes ✓	No ✓
Drum high level shut-off operational?	Yes ✓	No
<b>Filter Unit Transfer Pump and Piping</b>		
Pump operational?	Yes ✓	No
Pump condition.	Good ✓	Poor
Flow meter operational?	Yes ✓	No
Transfer pump flow rate.	6.78	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	Good ✓	Poor
Primary carbon unit leaks?	Yes	No ✓
Primary carbon unit pressure.	1.0	PSI
Primary carbon removed for disposal?	Yes	No ✓
Secondary carbon unit rotated to primary?	Yes	No ✓
New carbon placed in primary unit?	Yes	No ✓
Secondary carbon unit condition.	Good ✓	Poor
Secondary carbon unit leaks?	Yes	No ✓
Secondary carbon unit pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	No ✓
Polishing unit rotated to secondary?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
Polishing carbon unit condition.	Good ✓	Poor
Polishing carbon unit leaks?	Yes	No ✓
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good ✓	Poor
Pipe integrity at catch basin.	Good ✓	Poor
Pipe at catch basin clear?	Yes ✓	No
Pipe integrity at creek.	Good ✓	Poor
Pipe at creek clear?	Yes ✓	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	Good ✓	Poor
Shed ventilation acceptable?	Yes ✓	No
Repairs/work needed?	Yes	No ✓
Spill evidence?	Yes	No ✓
<b>Electrical/Heating</b>		
Electric controls operational	Yes ✓	No
Heater operational	Yes ✓	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	Good ✓	Poor
Work needed on vault?	Yes	No ✓
<b>Air Compressor</b>		
Compressor operational?	Yes ✓	No
Compressor hours.	2357.2	Hours
Oil level checked?	Yes ✓	No
Oil level changed?	Yes	No ✓
Compressor trap operating?	Yes ✓	No
Regulator operating?	Yes ✓	No
Air lines performing properly?	Yes ✓	No

Sampling		
Pre-carbon water sampled?	Yes ✓	No ✓
Pre-carbon sample ports clear?	Yes ✓	No ✓
Mid-carbon water sampled?	Yes	No ✓
Mid-carbon sample ports clear?	Yes ✓	No ✓
Post carbon water sampled?	Yes	No ✓
Post carbon sample ports clear?	Yes ✓	No ✓
Time sampled?	NA	a.m./p.m.
Compliance event?	Yes	No ✓
Product sampled?	Yes	No ✓

Recovery and Disposal		
Totalizer reading.	446189	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	2.5	Gallons
DNAPL/water to disposal drum.	2.5	Gallons
DNAPL/water to oil/water separator.	50	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	2.5	Gallons
DNAPL/water to disposal drum.	1.75	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	0	Gallons
LNAPL/water to disposal drum..	0	Gallons
LNAPL/water to oil/water separator.	0	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	Yes ✓	No

NOTES: PULSE TEST EQUIPMENT OFF UPON ARRIVAL

Technician: RK Date: 7/19/02

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes ✓	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	4	Arrow
Refill control setting (departure)	↓	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	Yes ✓	No
Green warning light operational?	Yes ✓	No
DNAPL drum container condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Decant valve integrity.	Good ✓	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good ✓	Poor
DNAPL pump cleaned?	Yes	No ✓
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes ✓	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↑	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	Good ✓	Poor
LNAPL pump cleaned?	Yes	No ✓
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	Yes ✓	No
High level water shut-off operational?	Yes ✓	No
White warning light operational?	Yes ✓	No
Separator vessel condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Separator cover and seal condition.	Good ✓	Poor
Decant valve integrity.	Good ✓	Poor
LNAPL in separator?	Yes	No ✓
Separator needs cleaning?	Yes	No ✓
Separator cleaned?	Yes	No ✓
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	Good ✓	Poor
LNAPL drum leaks?	Yes ✓	No ✓
Drum high level shut-off operational?	Yes	No

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No ✓
<u>Fixed Stick HT Hi Switch</u>		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes ✓	No
Pump condition.	Good ✓	Poor
Flow meter operational?	Yes ✓	No
Transfer pump flow rate.	8.78	GPM
<u>Filter Unit</u>		
	7.0	PSI
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	Good ✓	Poor
Primary carbon unit leaks?	Yes	No ✓
Primary carbon unit pressure.	1.0	PSI
Primary carbon removed for disposal?	Yes	No ✓
Secondary carbon unit rotated to primary?	Yes	No ✓
New carbon placed in primary unit?	Yes	No ✓
Secondary carbon unit condition.	Good ✓	Poor
Secondary carbon unit leaks?	Yes	No ✓
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No ✓
Polishing unit rotated to secondary?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
Polishing carbon unit condition.	Good ✓	Poor
Polishing carbon unit leaks?	Yes	No ✓
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
<u>Discharge Piping</u>		
Pipe integrity in shed.	Good ✓	Poor
Pipe integrity at catch basin.	Good ✓	Poor
Pipe at catch basin clear?	Yes ✓	No
Pipe integrity at creek.	Good ✓	Poor
Pipe at creek clear?	Yes ✓	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	Good ✓	Poor
Shed ventilation acceptable?	Yes ✓	No
Repairs/work needed?	Yes	No ✓
Spill evidence?	Yes	No ✓
<u>Electrical/Heating</u>		
Electric controls operational	Yes ✓	No
Heater operational	Yes ✓	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	Good ✓	Poor
Work needed on vault?	Yes	No ✓
<u>Air Compressor</u>		
Compressor operational?	Yes ✓	No
Compressor hours.	2364.4	Hours
Oil level checked?	Yes ✓	No
Oil level changed?	Yes	No ✓
Compressor trap operating?	Yes ✓	No
Regulator operating?	Yes ✓	No
Air lines performing properly?	Yes ✓	No

Sampling		
Pre-carbon water sampled?	Yes ✓	No
Pre-carbon sample ports clear?	Yes ✓	No
Mid-carbon water sampled?	Yes ✓	No
Mid-carbon sample ports clear?	Yes ✓	No
Post carbon water sampled?	Yes ✓	No
Post carbon sample ports clear?	Yes ✓	No
Time sampled?	1430	a.m./p.m.
Compliance event?	Yes ✓	No
Product sampled?	Yes	No ✓

Recovery and Disposal		
Totalizer reading.	449781	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	5.0	Gallons
DNAPL/water to disposal drum.	5.0	Gallons
DNAPL/water to oil/water separator.	60	Gallons
<u>SAMPLING Drum (PURGE)</u>	1.0170	← pure product / MAX ADDED TO DNAPL Drum
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0.25	Gallons
DNAPL/water to disposal drum.	0.75	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	0	Gallons
LNAPL/water to disposal drum..	0	Gallons
LNAPL/water to oil/water separator.	0	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	Yes ✓	No

NOTES: Pumped off 1 drum of purge H<sub>2</sub>O through system - approx 1 gallon of pure DNAPL & 9.0 gallons of H<sub>2</sub>O mix were placed in

Technician: RK Date: 7/26/02

appears last weeks pulse test did influence product recovery - INCREASE NOTED.

EMPTIED ONSITE GARBAGE CAN & WASTES GENERATED BY EARTH TECH/EO WATTS.

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes ✓	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes ✓	No
Green warning light operational?	Yes ✓	No
DNAPL drum container condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Decant valve integrity.	Good ✓	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good ✓	Poor
DNAPL pump cleaned?	Yes	No ✓
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes ✓	No
LNAPL pump pressure (arrival)	38	PSI
LNAPL pump pressure (departure)	38	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good ✓	Poor
LNAPL pump cleaned?	Yes	No ✓
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	Yes ✓	No
High level water shut-off operational?	Yes ✓	No
White warning light operational?	Yes ✓	No
Separator vessel condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Separator cover and seal condition.	Good ✓	Poor
Decant valve integrity.	Good ✓	Poor
LNAPL in separator?	Yes	No ✓
Separator needs cleaning?	Yes	No ✓
Separator cleaned?	Yes	No ✓
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	Good ✓	Poor
LNAPL drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes ✓	No

Technician: RL Date: 8/2/02

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	Good ✓	Poor
Equalization drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes	No
<u>7.0</u>		
<b>Transfer Pump and Piping</b>		
Pump operational?	Yes ✓	No
Pump condition.	Good ✓	Poor
Flow meter operational?	Yes ✓	No
Transfer pump flow rate.	<u>8.48</u>	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	Good ✓	Poor
Primary carbon unit leaks?	Yes	No ✓
Primary carbon unit pressure.	<u>1.0</u>	PSI
Primary carbon removed for disposal?	Yes	No ✓
Secondary carbon unit rotated to primary?	Yes	No ✓
New carbon placed in primary unit?	Yes	No ✓
Secondary carbon unit condition.	Good ✓	Poor
Secondary carbon unit leaks?	Yes	No ✓
Secondary carbon unit pressure.	<u>2.0</u>	PSI
Secondary carbon removed for disposal?	Yes	No ✓
Polishing unit rotated to secondary?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
Polishing carbon unit condition.	Good ✓	Poor
Polishing carbon unit leaks?	Yes	No ✓
Polishing carbon unit pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good ✓	Poor
Pipe integrity at catch basin.	Good ✓	Poor
Pipe at catch basin clear?	Yes ✓	No
Pipe integrity at creek.	Good ✓	Poor
Pipe at creek clear?	Yes ✓	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	Good ✓	Poor
Shed ventilation acceptable?	Yes ✓	No
Repairs/work needed?	Yes	No ✓
Spill evidence?	Yes	No ✓
<b>Electrical/Heating</b>		
Electric controls operational	Yes ✓	No
Heater operational	Yes ✓	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	Good ✓	Poor
Work needed on vault?	Yes	No ✓
<b>Air Compressor</b>		
Compressor operational?	Yes ✓	No
Compressor hours.	<u>2371.7</u>	Hours
Oil level checked?	Yes ✓	No
Oil level changed?	Yes	No ✓
Compressor trap operating?	Yes ✓	No
Regulator operating?	Yes ✓	No
Air lines performing properly?	Yes ✓	No

Sampling		
Pre-carbon water sampled?	Yes	No ✓
Pre-carbon sample ports clear?	Yes ✓	No
Mid-carbon water sampled?	Yes	No ✓
Mid-carbon sample ports clear?	Yes ✓	No
Post carbon water sampled?	Yes	No ✓
Post carbon sample ports clear?	Yes ✓	No
Time sampled?	<u>12</u>	a.m./p.m.
Compliance event?	Yes	No ✓
Product sampled?	Yes	No ✓

Recovery and Disposal		
Totalizer reading.	<u>455464</u>	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	<u>2</u>	Gallons
DNAPL/water to disposal drum.	<u>3</u>	Gallons
DNAPL/water to oil/water separator.	<u>58</u>	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	<u>.25</u>	Gallons
DNAPL/water to disposal drum.	<u>.75</u>	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	<u>0</u>	Gallons
LNAPL/water to disposal drum..	<u>0</u>	Gallons
LNAPL/water to oil/water separator.	<u>0</u>	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	<u>2</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	Yes ✓	No

NOTES: WATTS ENGINEERS ON SITE

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes ✓	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	✓	Arrow
Refill control setting (departure)	✓	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes ✓	No
Green warning light operational?	Yes ✓	No
DNAPL drum container condition.	Good ✓	Poor
Leaks present?	Yes ✓	No ✓
Decant valve integrity.	Good	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good ✓	Poor
DNAPL pump cleaned?	Yes	No ✓
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes ✓	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	✓	Arrow
Refill control setting (departure)	✓	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good ✓	Poor
LNAPL pump cleaned?	Yes	No ✓
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	Yes ✓	No
High level water shut-off operational?	Yes ✓	No
White warning light operational?	Yes ✓	No
Separator vessel condition.	Good ✓	Poor
Leaks present?	Yes ✓	No ✓
Separator cover and seal condition.	Good ✓	Poor
Decant valve integrity.	Good ✓	Poor
LNAPL in separator?	Yes	No ✓
Separator needs cleaning?	Yes	No ✓
Separator cleaned?	Yes	No ✓
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	Good ✓	Poor
LNAPL drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes ✓	No

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	Good ✓	Poor
Equalization drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes	No
<b>Filter Unit</b>		
Transfer Pump and Piping	7.0	
Pump operational?	Yes ✓	No
Pump condition.	Good ✓	Poor
Flow meter operational?	Yes ✓	No
Transfer pump flow rate.	861	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	Good ✓	Poor
Primary carbon unit leaks?	Yes	No ✓
Primary carbon unit pressure.	1.0	PSI
Primary carbon removed for disposal?	Yes	No ✓
Secondary carbon unit rotated to primary?	Yes	No ✓
New carbon placed in primary unit?	Yes	No ✓
Secondary carbon unit condition.	Good ✓	Poor
Secondary carbon unit leaks?	Yes	No ✓
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No ✓
Polishing unit rotated to secondary?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
Polishing carbon unit condition.	Good ✓	Poor
Polishing carbon unit leaks?	Yes	No ✓
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good ✓	Poor
Pipe integrity at catch basin.	Good ✓	Poor
Pipe at catch basin clear?	Yes ✓	No
Pipe integrity at creek.	Good ✓	Poor
Pipe at creek clear?	Yes ✓	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	Good ✓	Poor
Shed ventilation acceptable?	Yes ✓	No
Repairs/work needed?	Yes	No ✓
Spill evidence?	Yes	No ✓
<b>Electrical/Heating</b>		
Electric controls operational	Yes ✓	No
Heater operational	Yes ✓	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	Good ✓	Poor
Work needed on vault?	Yes	No ✓
<b>Air Compressor</b>		
Compressor operational?	Yes ✓	No
Compressor hours.	2378.6	Hours
Oil level checked?	Yes ✓	No
Oil level changed?	Yes	No ✓
Compressor trap operating?	Yes ✓	No
Regulator operating?	Yes ✓	No ✓
Air lines performing properly?	Yes ✓	No

Sampling		
Pre-carbon water sampled?	Yes	No ✓
Pre-carbon sample ports clear?	Yes ✓	No
Mid-carbon water sampled?	Yes	No ✓
Mid-carbon sample ports clear?	Yes ✓	No
Post carbon water sampled?	Yes ✓	No
Post carbon sample ports clear?	Yes ✓	No
Time sampled?	NA	a.m./p.m.
Compliance event?	Yes	No ✓
Product sampled?	Yes	No ✓

Recovery and Disposal		
Totalizer reading.	457679	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	1.5	Gallons
DNAPL/water to disposal drum.	3.5	Gallons
DNAPL/water to oil/water separator.	53	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0.5	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	0	Gallons
LNAPL/water to disposal drum..	0	Gallons
LNAPL/water to oil/water separator.	0	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled	Yes ✓	No

NOTES: pumped off 4 drums of development H<sub>2</sub>O through system. CHANGED OUT H<sub>2</sub>O FILTERS.

WATTS ONSITE.

Technician: RK Date: 8/9/22



# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes ✓	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	✓	Arrow
Refill control setting (departure)	✓	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes ✓	No
Green warning light operational?	Yes ✓	No
DNAPL drum container condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Decant valve integrity.	Good ✓	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good ✓	Poor
DNAPL pump cleaned?	Yes	No ✓
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes ✓	No
LNAPL pump pressure (arrival)	38	PSI
LNAPL pump pressure (departure)	38	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No ✓
Discharge control setting (departure)	✓	Arrow
Refill control setting (departure)	✓	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good ✓	Poor
LNAPL pump cleaned?	Yes	No ✓
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	Yes ✓	No
High level water shut-off operational?	Yes ✓	No
White warning light operational?	Yes ✓	No
Separator vessel condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Separator cover and seal condition.	Good ✓	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No ✓
Separator needs cleaning?	Yes	No ✓
Separator cleaned?	Yes	No ✓
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	Good ✓	Poor
LNAPL drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes ✓	No

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	Good ✓	Poor
Equalization drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes ✓	No
<b>Transfer Pump and Piping</b>		
Pump operational?	Yes ✓	No
Pump condition.	Good ✓	Poor
Flow meter operational?	Yes ✓	No
Transfer pump flow rate.	8.61	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	Good ✓	Poor
Primary carbon unit leaks?	Yes	No ✓
Primary carbon unit pressure.	1.0	PSI
Primary carbon removed for disposal?	Yes	No ✓
Secondary carbon unit rotated to primary?	Yes	No ✓
New carbon placed in primary unit?	Yes	No ✓
Secondary carbon unit condition.	Good ✓	Poor
Secondary carbon unit leaks?	Yes	No ✓
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No ✓
Polishing unit rotated to secondary?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
Polishing carbon unit condition.	Good ✓	Poor
Polishing carbon unit leaks?	Yes	No ✓
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good ✓	Poor
Pipe integrity at catch basin.	Good ✓	Poor
Pipe at catch basin clear?	Yes ✓	No
Pipe integrity at creek.	Good ✓	Poor
Pipe at creek clear?	Yes ✓	No
<b>Miscellaneous</b>		
<b>Building and Site</b>		
Remediation shed condition.	Good ✓	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No ✓
Spill evidence?	Yes	No
<b>Electrical/Heating</b>		
Electric controls operational	Yes ✓	No
Heater operational	Yes ✓	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	Good ✓	Poor
Work needed on vault?	Yes	No ✓
<b>Air Compressor</b>		
Compressor operational?	Yes ✓	No
Compressor hours.	2385.1	Hours
Oil level checked?	Yes ✓	No
Oil level changed?	Yes	No ✓
Compressor trap operating?	Yes ✓	No
Regulator operating?	Yes ✓	No
Air lines performing properly?	Yes ✓	No

Sampling		
Pre-carbon water sampled?	Yes ✓	No ✓
Pre-carbon sample ports clear?	Yes ✓	No
Mid-carbon water sampled?	Yes ✓	No ✓
Mid-carbon sample ports clear?	Yes ✓	No ✓
Post carbon water sampled?	Yes ✓	No ✓
Post carbon sample ports clear?	Yes ✓	No
Time sampled?	NA	a.m./p.m.
Compliance event?	Yes	No ✓
Product sampled?	Yes	No ✓

Recovery and Disposal		
Totalizer reading.	459005	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	2.0	Gallons
DNAPL/water to disposal drum.	2.0	Gallons
DNAPL/water to oil/water separator.	53.0	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	0.25	Gallons
DNAPL/water to disposal drum.	0.75	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	0	Gallons
LNAPL/water to disposal drum..	0	Gallons
LNAPL/water to oil/water separator.	0	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	2	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	Yes ✓	No

NOTES:

WATS ON SITE

Technician: RVC Date: 8/16/02

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes ✓	No
DNAPL pump pressure (arrival)	22	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↘	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes ✓	No
Green warning light operational?	Yes ✓	No
DNAPL drum container condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Decant valve integrity.	Good ✓	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good ✓	Poor
DNAPL pump cleaned?	Yes	No ✓
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes ✓	No
LNAPL pump pressure (arrival)	33	PSI
LNAPL pump pressure (departure)	36	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↗	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good ✓	Poor
LNAPL pump cleaned?	Yes	No ✓
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	Yes ✓	No
High level water shut-off operational?	Yes ✓	No
White warning light operational?	Yes ✓	No
Separator vessel condition.	Good ✓	Poor
Leaks present?	Yes	No ✓
Separator cover and seal condition.	Good ✓	Poor
Decant valve integrity.	Good ✓	Poor
LNAPL in separator?	Yes	No ✓
Separator needs cleaning?	Yes	No ✓
Separator cleaned?	Yes	No ✓
<b>LNAPL Storage Drum - OFFLINE</b>		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: RK Date: 8/23/02

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	Good ✓	Poor
Equalization drum leaks?	Yes	No ✓
Drum high level shut-off operational?	Yes	No
Transfer Pump and Piping	7.0	
Pump operational?	Yes ✓	No
Pump condition.	Good ✓	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.34	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	Good ✓	Poor
Primary carbon unit leaks?	Yes	No ✓
Primary carbon unit pressure.	1.2	PSI
Primary carbon removed for disposal?	Yes	No ✓
Secondary carbon unit rotated to primary?	Yes	No ✓
New carbon placed in primary unit?	Yes	No ✓
Secondary carbon unit condition.	Good ✓	Poor
Secondary carbon unit leaks?	Yes	No ✓
Secondary carbon unit pressure.	0.2	PSI
Secondary carbon removed for disposal?	Yes	No ✓
Polishing unit rotated to secondary?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
Polishing carbon unit condition.	Good ✓	Poor
Polishing carbon unit leaks?	Yes	No ✓
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No ✓
New carbon placed in secondary unit?	Yes	No ✓
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good ✓	Poor
Pipe integrity at catch basin.	Good ✓	Poor
Pipe at catch basin clear?	Yes ✓	No
Pipe integrity at creek.	Good ✓	Poor
Pipe at creek clear?	Yes ✓	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	Good ✓	Poor
Shed ventilation acceptable?	Yes ✓	No
Repairs/work needed?	Yes	No ✓
Spill evidence?	Yes	No
<b>Electrical/Heating</b>		
Electric controls operational	Yes ✓	No
Heater operational	Yes ✓	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	Good ✓	Poor
Work needed on vault?	Yes	No ✓
<b>Air Compressor</b>		
Compressor operational?	Yes ✓	No
Compressor hours.	2398.1	Hours
Oil level checked?	Yes ✓	No ✓
Oil level changed?	Yes	No ✓
Compressor trap operating?	Yes ✓	No
Regulator operating?	Yes ✓	No
Air lines performing properly?	Yes ✓	No

Sampling		
Pre-carbon water sampled?	Yes	No ✓
Pre-carbon sample ports clear?	Yes ✓	No
Mid-carbon water sampled?	Yes	No ✓
Mid-carbon sample ports clear?	Yes ✓	No
Post carbon water sampled?	Yes	No ✓
Post carbon sample ports clear?	Yes ✓	No
Time sampled?	NA	a.m./p.m.
Compliance event?	Yes	No
Product sampled?	Yes	No

Recovery and Disposal		
Totalizer reading.	460600	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	2.5	Gallons
DNAPL/water to disposal drum.	3.5	Gallons
DNAPL/water to oil/water separator.	55	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	.25	Gallons
DNAPL/water to disposal drum.	.25	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	0	Gallons
LNAPL/water to disposal drum..	0	Gallons
LNAPL/water to oil/water separator.	0	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled	Yes ✓	No

NOTES:

WATTS ON SITE.

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>8</u>	Arrow
Refill control setting (departure)	<u>8</u>	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	No
Decant valve integrity.	<u>Good</u>	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>38</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>8</u>	Arrow
Refill control setting (departure)	<u>8</u>	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	No
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	No
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	No
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No
<b>Filter Unit</b>		
Transfer Pump and Piping	<u>7 PSI</u>	
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.45</u>	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	No
Primary carbon unit pressure.	<u>1.0</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	No
Secondary carbon unit rotated to primary?	<u>Yes</u>	No
New carbon placed in primary unit?	<u>Yes</u>	No
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	<u>Yes</u>	No
Secondary carbon unit pressure.	<u>0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	No
Polishing unit rotated to secondary?	<u>Yes</u>	No
New carbon placed in secondary unit?	<u>Yes</u>	No
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	<u>Yes</u>	No
Polishing carbon unit pressure.	<u>0</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	No
New carbon placed in secondary unit?	<u>Yes</u>	No
<b>Discharge Piping</b>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	<u>Yes</u>	No
Spill evidence?	<u>Yes</u>	No
<b>Electrical/Heating</b>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	No
<b>Air Compressor</b>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2398.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	No
Pre-carbon sample ports clear?	<u>Yes</u>	No
Mid-carbon water sampled?	<u>Yes</u>	No
Mid-carbon sample ports clear?	<u>Yes</u>	No
Post carbon water sampled?	<u>Yes</u>	No
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?	<u>1230</u>	a.m./p.m.
Compliance event?	<u>Yes</u>	No
Product sampled?	<u>Yes</u>	No

Recovery and Disposal		
Totalizer reading.	<u>46624</u>	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	<u>2.0</u>	Gallons
DNAPL/water to disposal drum.	<u>2.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>50</u>	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	<u>N/A</u>	Gallons
LNAPL/water to disposal drum.	<u>N/A</u>	Gallons
LNAPL/water to oil/water separator.	<u>N/A</u>	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES:

WATS ON SITE.

Technician: RK & PM Date: 8/30/02

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>22</u>	PSI
DNAPL pump pressure (departure)	<u>22</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>36</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↑</u>	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: PM Date: 9-6-02

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	Yes	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<b>FILTER UNIT</b>		
Transfer Pump and Piping	<u>7</u>	PSI
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	<u>8.23</u>	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	Yes	<u>No</u>
Primary carbon unit pressure.	<u>1.5</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon unit rotated to primary?	Yes	<u>No</u>
New carbon placed in primary unit?	Yes	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	Yes	<u>No</u>
Secondary carbon unit pressure.	<u>0</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing unit rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary unit?	Yes	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	Yes	<u>No</u>
Polishing carbon unit pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in secondary unit?	Yes	<u>No</u>
<b>Discharge Piping</b>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
<b>Electrical/Heating</b>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	Yes	<u>No</u>
<b>Air Compressor</b>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2404.2</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	Yes	<u>No</u>
Pre-carbon sample ports clear?	<u>Yes</u>	No
Mid-carbon water sampled?	Yes	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	No
Post carbon water sampled?	Yes	<u>No</u>
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?	<u>/</u>	a.m./p.m.
Compliance event?	Yes	<u>No</u>
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>462803</u>	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	<u>1.5</u>	Gallons
DNAPL/water to disposal drum.	<u>2.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>50</u>	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	<u>NA</u>	Gallons
LNAPL/water to disposal drum..	<u>NA</u>	Gallons
LNAPL/water to oil/water separator.	<u>NA</u>	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES:

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↗	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container condition.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	38	PSI
LNAPL pump pressure (departure)	38	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↗	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	Yes	No
High level water shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel condition.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal condition.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: PM Date: 9/13/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
<u>Future Unit PSI</u>	7	
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump condition.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.73	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	Good	Poor
Primary carbon unit leaks?	Yes	No
Primary carbon unit pressure.	1.5	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon unit rotated to primary?	Yes	No
New carbon placed in primary unit?	Yes	No
Secondary carbon unit condition.	Good	Poor
Secondary carbon unit leaks?	Yes	No
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing unit rotated to secondary?	Yes	No
New carbon placed in secondary unit?	Yes	No
Polishing carbon unit condition.	Good	Poor
Polishing carbon unit leaks?	Yes	No
Polishing carbon unit pressure.	N/A	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in secondary unit?	Yes	No
<u>Discharge Piping</u>		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical/Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	Good	Poor
Work needed on vault?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	2410.1	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Pre-carbon water sampled?	Yes	No
Pre-carbon sample ports clear?	Yes	No
Mid-carbon water sampled?	Yes	No
Mid-carbon sample ports clear?	Yes	No
Post carbon water sampled?	Yes	No
Post carbon sample ports clear?	Yes	No
Time sampled?		a.m./p.m.
Compliance event?	Yes	No
Product sampled?	Yes	No

Recovery and Disposal		
Totalizer reading.	463708	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	3.0	Gallons
DNAPL/water to disposal drum.	1.0	Gallons
DNAPL/water to oil/water separator.	52.0	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	N/A	Gallons
LNAPL/water to disposal drum..	N/A	Gallons
LNAPL/water to oil/water separator.	N/A	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled	Yes	No

NOTES:

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>+</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>38</u>	PSI
LNAPL pump pressure (departure)	<u>38</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>+</u>	Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: RM Date: 9/20/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<u>Factor Unit</u>	<u>7 psi</u>	
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.73</u>	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>1.5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon unit rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary unit?	<u>Yes</u>	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon unit pressure.	<u>0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing unit rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon unit pressure.	<u>1.5</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No
<u>Miscellaneous</u>		
<u>Building and Site</u>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<u>No</u>
<u>Electrical/Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2416.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	<u>No</u>
Pre-carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Mid-carbon water sampled?	<u>Yes</u>	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Post carbon water sampled?	<u>Yes</u>	<u>No</u>
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?		a.m./p.m.
Compliance event?	<u>Yes</u>	<u>No</u>
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>464885</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1.5</u>	Gallons
DNAPL/water to disposal drum.	<u>1.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>45</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	<u>N/A</u>	Gallons
LNAPL/water to disposal drum..	<u>N/A</u>	Gallons
LNAPL/water to oil/water separator.	<u>N/A</u>	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES:

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>21</u>	PSI
DNAPL pump pressure (departure)	<u>21</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>39</u>	PSI
LNAPL pump pressure (departure)	<u>39</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<u>Filter Unit</u>		
Transfer Pump and Piping	<u>7 psi</u>	
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.61</u>	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>1.5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon unit rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary unit?	<u>Yes</u>	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon unit pressure.	<u>0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing unit rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon unit pressure.		PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<u>No</u>
<u>Electrical/Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	No
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>242.8</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	No
Pre-carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Mid-carbon water sampled?	<u>Yes</u>	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Post carbon water sampled?	<u>Yes</u>	No
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?	<u>1356/1410</u>	a.m./p.m.
Compliance event?	<u>Yes</u>	No
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>465941</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1.0</u>	Gallons
DNAPL/water to disposal drum.	<u>1.5</u>	Gallons
DNAPL/water to oil/water separator.	<u>56</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	<u>N/A</u>	Gallons
LNAPL/water to disposal drum..	<u>N/A</u>	Gallons
LNAPL/water to oil/water separator.	<u>N/A</u>	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums		Drums
PPE/Solids drums		Drums
LNAPL drums		Drums
Drums labeled	<u>Yes</u>	No

NOTES:

Technician: P. MURPHY Date: 9/27/02



# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>21</u>	PSI
DNAPL pump pressure (departure)	<u>21</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>✓</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>38</u>	PSI
LNAPL pump pressure (departure)	<u>38</u>	PSI
Bubbler tube operating pressure.	<u>6.8</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>✓</u>	Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: PM Date: 10/4/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<u>FILTER UNIT</u>		
Transfer Pump and Piping	<u>7.0</u>	PSI
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.61</u>	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>1.5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon unit rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary unit?	<u>Yes</u>	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon unit pressure.	<u>0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing unit rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon unit pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<u>No</u>
<u>Electrical/Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2427.6</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	<u>No</u>
Pre-carbon sample ports clear?	<u>Yes</u>	No
Mid-carbon water sampled?	<u>Yes</u>	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	No
Post carbon water sampled?	<u>Yes</u>	<u>No</u>
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?		a.m./p.m.
Compliance event?	<u>Yes</u>	<u>No</u>
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>469134</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>2.5</u>	Gallons
DNAPL/water to disposal drum.	<u>2.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>50.0</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	<u>0</u>	Gallons
LNAPL/water to disposal drum..	<u>0</u>	Gallons
LNAPL/water to oil/water separator.	<u>0</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>2</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES:

EARTH TECH & WATTS PERSONAL ON-SITE  
9-Soil Drums on-site from previous operations



# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	22.5	PSI
DNAPL pump pressure (departure)	22.5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	12	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container condition.	(Good)	Poor
Leaks present?	(Yes)	No
Decant valve integrity.	(Good)	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	7	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	(Yes)	No
High level water shut-off operational?	(Yes)	No
White warning light operational?	(Yes)	No
Separator vessel condition.	(Good)	Poor
Leaks present?	(Yes)	No
Separator cover and seal condition.	(Good)	Poor
Decant valve integrity.	(Good)	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: PMA Date: 10/11/02

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	(Good)	Poor
Equalization drum leaks?	(Yes)	No
Drum high level shut-off operational?	(Yes)	No
<b>Transfer Pump and Piping</b>		
Pump operational?	(Yes)	No
Pump condition.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.48	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	(Good)	Poor
Primary carbon unit leaks?	Yes	No
Primary carbon unit pressure.	1.5	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon unit rotated to primary?	Yes	No
New carbon placed in primary unit?	Yes	No
Secondary carbon unit condition.	(Good)	Poor
Secondary carbon unit leaks?	Yes	No
Secondary carbon unit pressure.	0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing unit rotated to secondary?	Yes	No
New carbon placed in secondary unit?	Yes	No
Polishing carbon unit condition.	(Good)	Poor
Polishing carbon unit leaks?	Yes	No
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in secondary unit?	Yes	No
<b>Discharge Piping</b>		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	(Good)	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<b>Electrical/Heating</b>		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	(Good)	Poor
Work needed on vault?	Yes	No
<b>Air Compressor</b>		
Compressor operational?	(Yes)	No
Compressor hours.	2433.4	Hours
Oil level checked?	(Yes)	No
Oil level changed?	(Yes)	No
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Pre-carbon water sampled?	Yes	No
Pre-carbon sample ports clear?	(Yes)	No
Mid-carbon water sampled?	Yes	No
Mid-carbon sample ports clear?	(Yes)	No
Post carbon water sampled?	Yes	No
Post carbon sample ports clear?	(Yes)	No
Time sampled?		a.m./p.m.
Compliance event?	Yes	No
Product sampled?	Yes	No

Recovery and Disposal		
Totalizer reading.	471081	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	1.5	Gallons
DNAPL/water to disposal drum.	1.3	Gallons
DNAPL/water to oil/water separator.	50	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	N/A	Gallons
LNAPL/water to disposal drum..	N/A	Gallons
LNAPL/water to oil/water separator.	N/A	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled	(Yes)	No

NOTES:

WATTS PERSONNEL & GASTOWN TREATMENT  
PERSONNEL ON-SITE

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>22</u>	PSI
DNAPL pump pressure (departure)	<u>22</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>7.0</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: PM Date: 10/18/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<u>Equalization Unit</u>	<u>7</u>	PSI
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.35</u>	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.		PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon unit rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary unit?	<u>Yes</u>	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon unit pressure.		PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing unit rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon unit pressure.	<u>N/A</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	<u>No</u>
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<u>No</u>
<u>Electrical/Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2440</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	No
Pre-carbon sample ports clear?	<u>Yes</u>	No
Mid-carbon water sampled?	<u>Yes</u>	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	No
Post carbon water sampled?	<u>Yes</u>	No
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?	<u>1630/1100</u>	a.m./p.m.
Compliance event?	<u>Yes</u>	No
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>473505</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>3.0</u>	Gallons
DNAPL/water to disposal drum.	<u>1.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>0.5</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	<u>N/A</u>	Gallons
LNAPL/water to disposal drum..	<u>N/A</u>	Gallons
LNAPL/water to oil/water separator.	<u>N/A</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES:

WATTS ENGINEERING ON-SITE

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>24</u>	PSI
DNAPL pump pressure (departure)	<u>24</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>46</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	<u>Good</u>	<u>Poor</u>
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: PM Date: Wed 10/23/82

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<u>DIGITAL UNIT</u>		
Transfer Pump and Piping	<u>7.0</u>	PSI
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.23</u>	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>1.5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon unit rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary unit?	<u>Yes</u>	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon unit pressure.	<u>0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing unit rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	<u>Yes</u>	No
Polishing carbon unit pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<u>No</u>
<u>Electrical/Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2444.3</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	<u>No</u>
Pre-carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Mid-carbon water sampled?	<u>Yes</u>	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Post carbon water sampled?	<u>Yes</u>	<u>No</u>
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?		a.m./p.m.
Compliance event?	<u>Yes</u>	<u>No</u>
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>478655</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1.5</u>	Gallons
DNAPL/water to disposal drum.	<u>1.5</u>	Gallons
DNAPL/water to oil/water separator.	<u>51</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	<u>W/A</u>	Gallons
LNAPL/water to disposal drum..	<u>W/A</u>	Gallons
LNAPL/water to oil/water separator.	<u>W/A</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES: WATTS ON-SITE

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	25	PSI
DNAPL pump pressure (departure)	25	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	✓	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container condition.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	✓	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	NA	Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	Yes	No
High level water shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel condition.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal condition.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: PM Date: 10/30/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump condition.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.10	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	Good	Poor
Primary carbon unit leaks?	Yes	No
Primary carbon unit pressure.	2.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon unit rotated to primary?	Yes	No
New carbon placed in primary unit?	Yes	No
Secondary carbon unit condition.	Good	Poor
Secondary carbon unit leaks?	Yes	No
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing unit rotated to secondary?	Yes	No
New carbon placed in secondary unit?	Yes	No
Polishing carbon unit condition.	Good	Poor
Polishing carbon unit leaks?	Yes	No
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in secondary unit?	Yes	No
<u>Discharge Piping</u>		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical/Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	Good	Poor
Work needed on vault?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	2450.7	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Pre-carbon water sampled?	Yes	No
Pre-carbon sample ports clear?	Yes	No
Mid-carbon water sampled?	Yes	No
Mid-carbon sample ports clear?	Yes	No
Post carbon water sampled?	Yes	No
Post carbon sample ports clear?	Yes	No
Time sampled?		a.m./p.m.
Compliance event?	Yes	No
Product sampled?	Yes	No

Recovery and Disposal		
Totalizer reading.	481868	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	35	Gallons
DNAPL/water to disposal drum.	20	Gallons
DNAPL/water to oil/water separator.	65	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum.	NA	Gallons
LNAPL/water to oil/water separator.	NA	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	Yes	No

NOTES: WALT HOWARD OF EARTH TECH.  
CALL CHW TO INFORM US THAT GREEN  
LIGHT WAS ON. WALT HOWARD WAS ON-SITE.

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>24</u>	PSI
DNAPL pump pressure (departure)	<u>24</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>7</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>1</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>7</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>1</u>	Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: pm Date: 11/1/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<u>Transfer Unit</u>		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.98</u>	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>2.0</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon unit rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary unit?	<u>Yes</u>	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon unit pressure.	<u>0.0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing unit rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	<u>Yes</u>	No
Polishing carbon unit pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<u>No</u>
<u>Electrical/Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>24325</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	<u>No</u>
Pre-carbon sample ports clear?	<u>Yes</u>	No
Mid-carbon water sampled?	<u>Yes</u>	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	No
Post carbon water sampled?	<u>Yes</u>	<u>No</u>
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?		a.m./p.m.
Compliance event?	<u>Yes</u>	<u>No</u>
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>482382</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1.5</u>	Gallons
DNAPL/water to disposal drum.	<u>1.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>20</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	<u>N/A</u>	Gallons
LNAPL/water to disposal drum..	<u>N/A</u>	Gallons
LNAPL/water to oil/water separator.	<u>N/A</u>	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES:

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>24</u>	PSI
DNAPL pump pressure (departure)	<u>24</u>	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</u>	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	Yes	No
Decant valve integrity.	<u>Good</u>	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</u>	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	Yes	No
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	Yes	No

Technician: DM Date: 11/6/02

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
<b>Transfer Pump and Piping</b>		
Pump operational?	Yes	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	<u>8.48</u>	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	Yes	No
Primary carbon unit pressure.	<u>2.0</u>	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon unit rotated to primary?	Yes	No
New carbon placed in primary unit?	Yes	No
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	Yes	No
Secondary carbon unit pressure.	<u>0.0</u>	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing unit rotated to secondary?	Yes	No
New carbon placed in secondary unit?	Yes	No
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	Yes	No
Polishing carbon unit pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in secondary unit?	Yes	No
<b>Discharge Piping</b>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<b>Electrical/Heating</b>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	Yes	No
<b>Air Compressor</b>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2458.5</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	Yes	No
Pre-carbon sample ports clear?	<u>Yes</u>	No
Mid-carbon water sampled?	Yes	No
Mid-carbon sample ports clear?	<u>Yes</u>	No
Post carbon water sampled?	Yes	No
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?		a.m./p.m.
Compliance event?	Yes	No
Product sampled?	Yes	No

Recovery and Disposal		
Totalizer reading.	<u>483824</u>	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	<u>3.5</u>	Gallons
DNAPL/water to disposal drum.	<u>3.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>67</u>	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	<u>N/A</u>	Gallons
LNAPL/water to disposal drum..	<u>N/A</u>	Gallons
LNAPL/water to oil/water separator.	<u>N/A</u>	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES: Green May NYSDE ON-SITE  
DNAPL GREEN WARNING LIGHT ON.

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="checkbox"/>	No
DNAPL pump pressure (arrival)	24	PSI
DNAPL pump pressure (departure)	24	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="checkbox"/>
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container condition.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="checkbox"/>	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="checkbox"/>
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="checkbox"/>	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="checkbox"/>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<input checked="" type="checkbox"/>	No
High level water shut-off operational?	<input checked="" type="checkbox"/>	No
White warning light operational?	<input checked="" type="checkbox"/>	No
Separator vessel condition.	Good	Poor
Leaks present?	Yes	<input checked="" type="checkbox"/>
Separator cover and seal condition.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	<input checked="" type="checkbox"/>
Separator needs cleaning?	Yes	<input checked="" type="checkbox"/>
Separator cleaned?	Yes	<input checked="" type="checkbox"/>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: DM Date: 11/13/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<input checked="" type="checkbox"/>	Poor
Equalization drum leaks?	Yes	<input checked="" type="checkbox"/>
Drum high level shut-off operational?	Yes	No
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="checkbox"/>	No
Pump condition.	<input checked="" type="checkbox"/>	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.0	PSI
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<input checked="" type="checkbox"/>	Poor
Primary carbon unit leaks?	Yes	<input checked="" type="checkbox"/>
Primary carbon unit pressure.	2.0	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="checkbox"/>
Secondary carbon unit rotated to primary?	Yes	<input checked="" type="checkbox"/>
New carbon placed in primary unit?	Yes	<input checked="" type="checkbox"/>
Secondary carbon unit condition.	<input checked="" type="checkbox"/>	Poor
Secondary carbon unit leaks?	Yes	<input checked="" type="checkbox"/>
Secondary carbon unit pressure.	<input checked="" type="checkbox"/>	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="checkbox"/>
Polishing unit rotated to secondary?	Yes	<input checked="" type="checkbox"/>
New carbon placed in secondary unit?	Yes	<input checked="" type="checkbox"/>
Polishing carbon unit condition.	<input checked="" type="checkbox"/>	Poor
Polishing carbon unit leaks?	Yes	<input checked="" type="checkbox"/>
Polishing carbon unit pressure.	N/A	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="checkbox"/>
New carbon placed in secondary unit?	Yes	<input checked="" type="checkbox"/>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="checkbox"/>	Poor
Pipe integrity at catch basin.	<input checked="" type="checkbox"/>	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	<input checked="" type="checkbox"/>	Poor
Pipe at creek clear?	Yes	No
<u>Miscellaneous</u>		
<u>Building and Site</u>		
Remediation shed condition.	<input checked="" type="checkbox"/>	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	<input checked="" type="checkbox"/>
Spill evidence?	Yes	<input checked="" type="checkbox"/>
<u>Electrical/Heating</u>		
Electric controls operational	<input checked="" type="checkbox"/>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<input checked="" type="checkbox"/>	Poor
Work needed on vault?	Yes	<input checked="" type="checkbox"/>
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="checkbox"/>	No
Compressor hours.	2463.0	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	<input checked="" type="checkbox"/>
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Pre-carbon water sampled?	Yes	<input checked="" type="checkbox"/>
Pre-carbon sample ports clear?	<input checked="" type="checkbox"/>	No
Mid-carbon water sampled?	Yes	<input checked="" type="checkbox"/>
Mid-carbon sample ports clear?	<input checked="" type="checkbox"/>	No
Post carbon water sampled?	Yes	<input checked="" type="checkbox"/>
Post carbon sample ports clear?	<input checked="" type="checkbox"/>	No
Time sampled?		a.m./p.m.
Compliance event?	Yes	<input checked="" type="checkbox"/>
Product sampled?	Yes	<input checked="" type="checkbox"/>

Recovery and Disposal		
Totalizer reading.	487579	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	2.5	Gallons
DNAPL/water to disposal drum.	1.5	Gallons
DNAPL/water to oil/water separator.	60	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	N/A	Gallons
LNAPL/water to disposal drum..	N/A	Gallons
LNAPL/water to oil/water separator.	N/A	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	3	Drums
LNAPL drums	0	Drums
Drums labeled	<input checked="" type="checkbox"/>	No

NOTES:



# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>22</u>	PSI
DNAPL pump pressure (departure)	<u>22</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>42</u>	PSI
LNAPL pump pressure (departure)	<u>42</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>
<u>LNAPL Storage Drum</u> NA - OFFLINE		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: KV Date: 11-22-02

LNAPL/Groundwater System - (Continued)		
<u>FIELD STUCK EQ DRUM HIGH SWITCH</u>		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	<u>No</u>
<u>FITCH UNIT</u>		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.0 / 8.35</u>	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>1.5</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon unit rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary unit?	<u>Yes</u>	<u>No</u>
Secondary carbon unit condition.		
Secondary carbon unit leaks?	<u>Good</u>	Poor
Secondary carbon unit pressure.	<u>0.0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing unit rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
Polishing carbon unit condition.		
Polishing carbon unit leaks?	<u>Good</u>	Poor
Polishing carbon unit pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<u>No</u>
<u>TURNED ON SHED HEAT</u>		
<u>Electrical/Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2469.7</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	<u>No</u>
Pre-carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Mid-carbon water sampled?	<u>Yes</u>	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Post carbon water sampled?	<u>Yes</u>	<u>No</u>
Post carbon sample ports clear?	<u>Yes</u>	<u>No</u>
Time sampled?	<u>NA</u>	a.m./p.m.
Compliance event?	<u>Yes</u>	<u>No</u>
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>494535</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1.5</u>	Gallons
DNAPL/water to disposal drum.	<u>3.5</u>	Gallons
DNAPL/water to oil/water separator.	<u>70</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	<u>NA</u>	Gallons
LNAPL/water to disposal drum..	<u>NA</u>	Gallons
LNAPL/water to oil/water separator.	<u>NA</u>	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>21</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>NA</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES: NEED LIGHT BULBS FOR SHED. CHANGED OUT TWO FUSES



# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>24</u>	PSI
DNAPL pump pressure (departure)	<u>24</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	<u>Yes</u>	<u>No</u>
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: PM Date: 11/27/02

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<b>FILTER UNIT</b>		
Transfer Pump and Piping	<u>21</u>	PSI
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>6.96</u>	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	No
Primary carbon unit pressure.	<u>2.3</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon unit rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary unit?	<u>Yes</u>	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon unit pressure.	<u>0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing unit rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon unit pressure.	<u>2.4</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary unit?	<u>Yes</u>	<u>No</u>
<b>Discharge Piping</b>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

Miscellaneous		
<b>Building and Site</b>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<u>No</u>
<b>Electrical/Heating</b>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
<b>Air Compressor</b>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2473.8</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	<u>Yes</u>	No
Pre-carbon sample ports clear?	<u>Yes</u>	No
Mid-carbon water sampled?	<u>Yes</u>	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	No
Post carbon water sampled?	<u>Yes</u>	No
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?	<u>11:15/11:25</u>	a.m./p.m.
Compliance event?	<u>Yes</u>	<u>No</u>
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>501174</u>	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</u>	Gallons
DNAPL/water to oil/water separator.	<u>47</u>	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	<u>N/A</u>	Gallons
LNAPL/water to disposal drum..	<u>N/A</u>	Gallons
LNAPL/water to oil/water separator.	<u>N/A</u>	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES: 1 - Drum of Pure Water

- Bought 1 Box of PPEs - oil

- changed out H2O FILTERS  
- collected Compliance samples & Drums sent to  
- Remediation Technology Center (R.T.C.) STL

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System - Hi Hi Fault - EMPTIED - OK		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	26	PSI
DNAPL pump pressure (departure)	23	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container condition.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	42	PSI
LNAPL pump pressure (departure)	42	PSI
Bubbler tube operating pressure.	1	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<b>Oil/Water Separator</b>		
High level oil shut-off operational?	Yes	No
High level water shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel condition.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal condition.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
<b>LNAPL Storage Drum</b>		
LNAPL drum condition.	MA - offsite	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: RK Date: 12/6/02

LNAPL/Groundwater System - (Continued)		
<b>Equalization Drum</b>		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
<b>Transfer Pump and Piping</b>		
Pump operational?	Yes	No
Pump condition.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	7.85	GPM
<b>Carbon Treatment Units</b>		
Primary carbon unit condition.	Good	Poor
Primary carbon unit leaks?	Yes	No
Primary carbon unit pressure.	3.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon unit rotated to primary?	Yes	No
New carbon placed in primary unit?	Yes	No
Secondary carbon unit condition.	Good	Poor
Secondary carbon unit leaks?	Yes	No
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing unit rotated to secondary?	Yes	No
New carbon placed in secondary unit?	Yes	No
Polishing carbon unit condition.	Good	Poor
Polishing carbon unit leaks?	Yes	No
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in secondary unit?	Yes	No
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
<b>Miscellaneous</b>		
<b>Building and Site</b>		
Remediation shed condition.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<b>Electrical/Heating</b>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<b>Extraction Well</b>		
Overall vault condition.	Good	Poor
Work needed on vault?	Yes	No
<b>Air Compressor</b>		
Compressor operational?	Yes	No
Compressor hours.	2480.8	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Pre-carbon water sampled?	Yes	No
Pre-carbon sample ports clear?	Yes	No
Mid-carbon water sampled?	Yes	No
Mid-carbon sample ports clear?	Yes	No
Post carbon water sampled?	Yes	No
Post carbon sample ports clear?	Yes	No
Time sampled?	NA	a.m./p.m.
Compliance event?	Yes	No
Product sampled?	Yes	No

Recovery and Disposal		
Totalizer reading.	506273	Gallons
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	1.5	Gallons
DNAPL/water to disposal drum.	1.5	Gallons
DNAPL/water to oil/water separator.	7.5	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	.25	Gallons
DNAPL/water to disposal drum.	.75	Gallons
<b>Recovery from LNAPL Drum</b>		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum..	NA	Gallons
LNAPL/water to oil/water separator.	NA	Gallons
<b>Product Carbon Waste Storage</b>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled	Yes	No

NOTES:

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container condition.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>15</u>	PSI
LNAPL pump pressure (departure)	<u>15</u>	PSI
Bubbler tube operating pressure.	<u>2.0</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↑</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>Yes</u>	No
High level water shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel condition.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal condition.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	<u>Good</u>	Poor
LNAPL drum leaks?	Yes	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: BM Date: 14/3/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	Yes	<u>No</u>
Drum high level shut-off operational?	<u>Yes</u>	No
<u>Transfer Pump and Piping</u>	<u>15</u>	PSI
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.34</u>	GPM
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	Yes	<u>No</u>
Primary carbon unit pressure.	<u>3.0</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon unit rotated to primary?	Yes	<u>No</u>
New carbon placed in primary unit?	Yes	<u>No</u>
Secondary carbon unit condition.	<u>Good</u>	Poor
Secondary carbon unit leaks?	Yes	<u>No</u>
Secondary carbon unit pressure.	<u>0.0</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing unit rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary unit?	Yes	<u>No</u>
Polishing carbon unit condition.	<u>Good</u>	Poor
Polishing carbon unit leaks?	Yes	No
Polishing carbon unit pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in secondary unit?	Yes	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No
<u>Miscellaneous</u>		
<u>Building and Site</u>		
Remediation shed condition.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
<u>Electrical/Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	Yes	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2485.8</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Pre-carbon water sampled?	Yes	<u>No</u>
Pre-carbon sample ports clear?	<u>Yes</u>	No
Mid-carbon water sampled?	Yes	<u>No</u>
Mid-carbon sample ports clear?	<u>Yes</u>	No
Post carbon water sampled?	Yes	<u>No</u>
Post carbon sample ports clear?	<u>Yes</u>	No
Time sampled?		a.m./p.m.
Compliance event?	Yes	<u>No</u>
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
Totalizer reading.	<u>510043</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>3.0</u>	Gallons
DNAPL/water to disposal drum.	<u>2.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>45</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>5</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.		Gallons
LNAPL/water to disposal drum..	<u>NA</u>	Gallons
LNAPL/water to oil/water separator.		Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES:

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	21	PSI
DNAPL pump pressure (departure)	23	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container condition.	(Good)	Poor
Leaks present?	(Yes)	(No)
Decant valve integrity.	(Good)	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	42	PSI
LNAPL pump pressure (departure)	42	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↑	Arrow
<u>cleaned by bubble tube</u>		
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	(Yes)	No
High level water shut-off operational?	(Yes)	No
White warning light operational?	(Yes)	No
Separator vessel condition.	(Good)	Poor
Leaks present?	Yes	(No)
Separator cover and seal condition.	(Good)	Poor
Decant valve integrity.	(Good)	Poor
LNAPL in separator?	Yes	(No)
Separator needs cleaning?	Yes	(No)
Separator cleaned?	Yes	(No)
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	(Good)	Poor
LNAPL drum leaks?	Yes	(No)
Drum high level shut-off operational?	(Yes)	No

Technician: W Date: 12/20/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	(Good)	Poor
Equalization drum leaks?	Yes	(No)
Drum high level shut-off operational?	(Yes)	No
<u>Transfer Pump and Piping</u>		
Pump operational?	(Yes)	(No)
Pump condition.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	6.7/18.23 GPM	
PSI	20/12	
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	(Good)	Poor
Primary carbon unit leaks?	Yes	(No)
Primary carbon unit pressure.	15	PSI
Primary carbon removed for disposal?	Yes	(No)
Secondary carbon unit rotated to primary?	Yes	(No)
New carbon placed in primary unit?	Yes	(No)
Secondary carbon unit condition.	(Good)	Poor
Secondary carbon unit leaks?	Yes	(No)
Secondary carbon unit pressure.	NA	PSI
Secondary carbon removed for disposal?	Yes	(No)
Polishing unit rotated to secondary?	Yes	(No)
New carbon placed in secondary unit?	Yes	(No)
Polishing carbon unit condition.	(Good)	Poor
Polishing carbon unit leaks?	Yes	(No)
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	(No)
New carbon placed in secondary unit?	Yes	(No)
<u>Discharge Piping</u>		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	(Yes)	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	(Good)	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
<u>Electrical/Heating</u>		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	(Good)	Poor
Work needed on vault?	Yes	(No)
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	2476.2	Hours
Oil level checked?	(Yes)	No
Oil level changed?	Yes	(No)
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Pre-carbon water sampled?	Yes	(No)
Pre-carbon sample ports clear?	(Yes)	No
Mid-carbon water sampled?	Yes	(No)
Mid-carbon sample ports clear?	(Yes)	No
Post carbon water sampled?	Yes	(No)
Post carbon sample ports clear?	(Yes)	No
Time sampled?	NA	a.m./p.m.
Compliance event?	Yes	(No)
Product sampled?	Yes	(No)

Recovery and Disposal		
Totalizer reading.	520724	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	1.5	Gallons
DNAPL/water to disposal drum.	4.5	Gallons
DNAPL/water to oil/water separator.	20	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.		Gallons
LNAPL/water to disposal drum..	NA	Gallons
LNAPL/water to oil/water separator.		Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled	(Yes)	No

NOTES:  
changed H<sub>2</sub>O filters  
cleaned bubble tube (given out)

# Former Gastown Manufactured Gas Plant Site

## Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>(Yes)</u>	No
DNAPL pump pressure (arrival)	<u>23</u>	PSI
DNAPL pump pressure (departure)	<u>23</u>	PSI
Pneumatic settings adjusted?	Yes	<u>(No)</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>(Yes)</u>	No
Green warning light operational?	<u>(Yes)</u>	No
DNAPL drum container condition.	<u>(Good)</u>	Poor
Leaks present?	Yes	<u>(No)</u>
Decant valve integrity.	Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>(Good)</u>	Poor
DNAPL pump cleaned?	Yes	<u>(No)</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System - BLEW LINE FOR BUBBLER		
Operational upon arrival?	Yes	<u>(No)</u>
LNAPL pump pressure (arrival)	<u>42</u>	PSI
LNAPL pump pressure (departure)	<u>42</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	Yes	<u>(No)</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↑</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>(Good)</u>	Poor
LNAPL pump cleaned?	Yes	<u>(No)</u>
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
High level oil shut-off operational?	<u>(Yes)</u>	No
High level water shut-off operational?	<u>(Yes)</u>	No
White warning light operational?	<u>(Yes)</u>	No
Separator vessel condition.	<u>(Good)</u>	Poor
Leaks present?	Yes	<u>(No)</u>
Separator cover and seal condition.	<u>(Good)</u>	Poor
Decant valve integrity.	<u>(Good)</u>	Poor
LNAPL in separator?	Yes	<u>(No)</u>
Separator needs cleaning?	Yes	<u>(No)</u>
Separator cleaned?	Yes	<u>(No)</u>
<u>LNAPL Storage Drum</u>		
LNAPL drum condition.	<u>(Good)</u>	Poor
LNAPL drum leaks?	Yes	<u>(No)</u>
Drum high level shut-off operational?	<u>(Yes)</u>	No

Technician: RK Date: 12/27/02

LNAPL/Groundwater System - (Continued)		
<u>Equalization Drum</u>		
Equalization drum condition.	<u>(Good)</u>	Poor
Equalization drum leaks?	Yes	<u>(No)</u>
Drum high level shut-off operational?	<u>(Yes)</u>	No
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>(Yes)</u>	No
Pump condition.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	<u>6.18/8.73</u>	GPM
<u>FITCH PSI</u>		
<u>Carbon Treatment Units</u>		
Primary carbon unit condition.	<u>(Good)</u>	Poor
Primary carbon unit leaks?	Yes	<u>(No)</u>
Primary carbon unit pressure.	<u>4.0</u>	PSI
Primary carbon removed for disposal?	Yes	<u>(No)</u>
Secondary carbon unit rotated to primary?	Yes	<u>(No)</u>
New carbon placed in primary unit?	Yes	<u>(No)</u>
<u>Secondary carbon unit condition.</u>		
Secondary carbon unit leaks?	<u>(Good)</u>	Poor
Secondary carbon unit pressure.	Yes	<u>(No)</u>
Secondary carbon removed for disposal?	<u>0.0</u>	PSI
Polishing unit rotated to secondary?	Yes	<u>(No)</u>
New carbon placed in secondary unit?	Yes	<u>(No)</u>
<u>Polishing carbon unit condition.</u>		
Polishing carbon unit leaks?	<u>(Good)</u>	Poor
Polishing carbon unit pressure.	Yes	<u>(No)</u>
Polishing carbon removed for disposal?	<u>NA</u>	PSI
New carbon placed in secondary unit?	Yes	<u>(No)</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>(Good)</u>	Poor
Pipe integrity at catch basin.	<u>(Good)</u>	Poor
Pipe at catch basin clear?	<u>(Yes)</u>	No
Pipe integrity at creek.	<u>(Good)</u>	Poor
Pipe at creek clear?	<u>(Yes)</u>	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed condition.	<u>(Good)</u>	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	<u>(No)</u>
Spill evidence?	Yes	<u>(No)</u>
<u>Electrical/Heating</u>		
Electric controls operational	<u>(Yes)</u>	No
Heater operational	<u>(Yes)</u>	No

Miscellaneous - (Continued)		
<u>Extraction Well</u>		
Overall vault condition.	<u>(Good)</u>	Poor
Work needed on vault?	Yes	<u>(No)</u>
<u>Air Compressor - BELTS SLIPPING</u>		
Compressor operational?	<u>(Yes)</u>	No
Compressor hours.	<u>2510.2</u>	Hours
Oil level checked?	<u>(Yes)</u>	No
Oil level changed?	Yes	<u>(No)</u>
Compressor trap operating?	<u>(Yes)</u>	No
Regulator operating?	<u>(Yes)</u>	No
Air lines performing properly?	<u>(Yes)</u>	No

Sampling		
Pre-carbon water sampled?	<u>(Yes)</u>	No
Pre-carbon sample ports clear?	<u>(Yes)</u>	No
Mid-carbon water sampled?	<u>(Yes)</u>	No
Mid-carbon sample ports clear?	<u>(Yes)</u>	No
Post carbon water sampled?	<u>(Yes)</u>	No
Post carbon sample ports clear?	<u>(Yes)</u>	No
Time sampled?	<u>1257</u>	a.m./p.m.
Compliance event?	<u>(Yes)</u>	No
Product sampled?	Yes	<u>(No)</u>

Recovery and Disposal		
Totalizer reading.	<u>529528</u>	Gallons
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1.0</u>	Gallons
DNAPL/water to disposal drum.	<u>2.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>20</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0.5</u>	Gallons
DNAPL/water to disposal drum.	<u>1.0</u>	Gallons
<u>Recovery from LNAPL Drum</u>		
Pure LNAPL to disposal drum.	<u>NA</u>	Gallons
LNAPL/water to disposal drum..	<u>NA</u>	Gallons
LNAPL/water to oil/water separator.	<u>NA</u>	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>2</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>3</u>	Drums
LNAPL drums	<u>NA</u>	Drums
Drums labeled	<u>(Yes)</u>	No

NOTES: NEED TO SCHEDULE WASTE PICKUP