

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

**2004 SITE VISIT CHECKLISTS
FOR THE GROUNDWATER COLLECTION
& TREATMENT SYSTEM**

Site Visit Checklists for October 2004 are missing.

DNAPL System - Hi. level - DNAPL Drum		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	23	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
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)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
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
LNAPL Storage Drum		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: EK Date: 1/9/04

All WASTE ONSITE WAS REMOVED FOR DISPOSAL THIS WEEK

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	NA	Good
Equalization drum leaks?		No
Drum high level shut-off operational?		No
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump condition.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.35	GPM
Filter PSI - 12.0		
Carbon Treatment Units		
Primary carbon unit condition.	Good	Poor
Primary carbon unit leaks?	Yes	No
Primary carbon unit pressure.	5.0	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
Discharge Piping		
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		
Building and Site		
Remediation shed condition.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical/Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Need to bring Bag of PADS & 55 Gal Drums (2) to site

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	Good	Poor
Work needed on vault?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	2813.6	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.	805113	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	2.0	Gallons
DNAPL/water to oil/water separator.	75.0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum..	NA	Gallons
LNAPL/water to oil/water separator.	NA	Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	NA	Drums
Drums labeled	Yes	No

NOTES: cleaned QUARTZ sleeve on Culligan UV filters. plugged IN space heater IN NON XP side of shed.

DNAPL System		
Operational upon arrival?	Yes	(No)
DNAPL pump pressure (arrival)	NA	PSI
DNAPL pump pressure (departure)	NA	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	(No)
LNAPL pump pressure (arrival)	NA	PSI
LNAPL pump pressure (departure)	NA	PSI
Bubbler tube operating pressure.	NA	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
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)
LNAPL Storage Drum		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: 01-1654 Date: DN

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump condition.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	7.48	GPM
	filter PSI	13.0
Carbon Treatment Units		
Primary carbon unit condition.	(Good)	Poor
Primary carbon unit leaks?	Yes	(No)
Primary carbon unit pressure.	5.0	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)
Discharge Piping		
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		
Building and Site		
Remediation shed condition.	(Good)	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
Electrical/Heating		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	(Good)	Poor
Work needed on vault?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	183.6	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.	309853	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.25	Gallons
DNAPL/water to disposal drum.	0.25	Gallons
DNAPL/water to oil/water separator.	0.0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum.	NA	Gallons
LNAPL/water to oil/water separator.	NA	Gallons
Product Carbon Waste Storage		
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: All parts of system functional except lines to vaults are frozen due to extreme cold temps.

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	NA	PSI
DNAPL pump pressure (departure)	NA	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	NA	PSI
LNAPL pump pressure (departure)	NA	PSI
Bubbler tube operating pressure.	0.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
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)
LNAPL Storage Drum		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: JAH Date: 01-23-04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump condition.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	NA	GPM
Carbon Treatment Units		
Primary carbon unit condition.	(Good)	Poor
Primary carbon unit leaks?	Yes	(No)
Primary carbon unit pressure.	NA	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)
Discharge Piping		
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		
Building and Site		
Remediation shed condition.	(Good)	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
Electrical/Heating		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	(Good)	Poor
Work needed on vault?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	2513.6	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. 0.2536 Gal.	81253	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum..	0	Gallons
LNAPL/water to oil/water separator.	0	Gallons
Product Carbon Waste Storage		
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: System down upon arrival/signature.
Both vaults checked and appeared fine.
Lines appear to be frozen between shed
and vaults.

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)	5	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	N/A	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	(No)
LNAPL pump pressure (arrival)	41	PSI
LNAPL pump pressure (departure)	41	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↓	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	N/A	Feet
Oil/Water Separator		
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)
LNAPL Storage Drum		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: JH Date: 01-30-04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump condition.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	7.35	GPM
Filter PSI	3.25	PSI
Carbon Treatment Units		
Primary carbon unit condition.	Good	(Poor)
Primary carbon unit leaks?	Yes	(No)
Primary carbon unit pressure.	7.0	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.	1.0	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)
Discharge Piping		
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		
Building and Site		
Remediation shed condition.	(Good)	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
Electrical/Heating		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	(Good)	Poor
Work needed on vault?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	203.4	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.	5146.3	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	N/A	Gallons
LNAPL/water to disposal drum..		Gallons
LNAPL/water to oil/water separator.		Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	6	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	(Yes)	No

NOTES: Restarted System after thawing lines exiting shed and entering vault. System now fully operational

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>76</u>	PSI
DNAPL pump pressure (departure)	<u>76</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
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35</u>	PSI
LNAPL pump pressure (departure)	<u>35</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil/Water Separator		
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>
LNAPL Storage Drum		
LNAPL drum condition.	<u>NA</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: DH Date: 02-06-04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	<u>Good</u>	Poor
Equalization drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.95</u>	GPM
Filter PSI	<u>arrive/depart</u>	PSI
	<u>27/14</u>	
Carbon Treatment Units		
Primary carbon unit condition.	<u>Good</u>	<u>Poor</u>
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>9.0</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>	<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>
Discharge Piping		
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		
Building and Site		
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>
Electrical/Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2817.0</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?	<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>319534</u>	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to disposal drum.	<u>0.50</u>	Gallons
DNAPL/water to oil/water separator.	<u>20</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Recovery from LNAPL Drum <u>NA</u>		
Pure LNAPL to disposal drum.		Gallons
LNAPL/water to disposal drum.		Gallons
LNAPL/water to oil/water separator.		Gallons
Product Carbon Waste Storage		
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: Changed H₂O Filters, Empty 20 DNAPL Drum, removed snow/ice build-up from shed roof.

DNAPL System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
DNAPL pump pressure (arrival)	16	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	<input checked="" type="checkbox"/> Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="checkbox"/> Yes	No
Green warning light operational?	<input checked="" type="checkbox"/> Yes	No
DNAPL drum container condition.	<input checked="" type="checkbox"/> Good	Poor
Leaks present?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Decant valve integrity.	<input checked="" type="checkbox"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="checkbox"/> Good	Poor
DNAPL pump cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
LNAPL pump pressure (arrival)	32	PSI
LNAPL pump pressure (departure)	33	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	<input checked="" type="checkbox"/> Yes	No
Discharge control setting (departure)	↓	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
High level oil shut-off operational?	<input checked="" type="checkbox"/> Yes	No
High level water shut-off operational?	<input checked="" type="checkbox"/> Yes	No
White warning light operational?	<input checked="" type="checkbox"/> Yes	No
Separator vessel condition.	<input checked="" type="checkbox"/> Good	Poor
Leaks present?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Separator cover and seal condition.	<input checked="" type="checkbox"/> Good	Poor
Decant valve integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL in separator?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Separator needs cleaning?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Separator cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
LNAPL Storage Drum		
LNAPL drum condition.	NA	Poor
LNAPL drum leaks?	<input checked="" type="checkbox"/> Yes	No
Drum high level shut-off operational?	<input checked="" type="checkbox"/> Yes	No

Technician: DA/TK Date: 02-12-04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	NA	Good Poor
Equalization drum leaks?	<input checked="" type="checkbox"/> Yes	Yes No
Drum high level shut-off operational?	<input checked="" type="checkbox"/> Yes	Yes No
Transfer Pump and Piping		
Pump operational?	<input checked="" type="checkbox"/> Yes	No
Pump condition.	<input checked="" type="checkbox"/> Good	Poor
Flow meter operational?	<input checked="" type="checkbox"/> Yes	No
Transfer pump flow rate.	7.59	GPM
	f.1121 p.2550.2	17.0 psi
Carbon Treatment Units		
Primary carbon unit condition.	<input checked="" type="checkbox"/> Good	<input checked="" type="checkbox"/> Poor
Primary carbon unit leaks?	<input checked="" type="checkbox"/> Yes	No
Primary carbon unit pressure.	8.0	PSI
Primary carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit rotated to primary?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
New carbon placed in primary unit?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit condition.	<input checked="" type="checkbox"/> Good	Poor
Secondary carbon unit leaks?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit pressure.	6.0	PSI
Secondary carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Polishing unit rotated to secondary?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary unit?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Polishing carbon unit condition.	<input checked="" type="checkbox"/> Good	Poor
Polishing carbon unit leaks?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary unit?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="checkbox"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="checkbox"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="checkbox"/> Yes	No
Pipe integrity at creek.	<input checked="" type="checkbox"/> Good	Poor
Pipe at creek clear?	<input checked="" type="checkbox"/> Yes	No

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

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	<input checked="" type="checkbox"/> Good	Poor
Work needed on vault?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Air Compressor		
Compressor operational?	<input checked="" type="checkbox"/> Yes	No
Compressor hours.	2819.6	Hours
Oil level checked?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Oil level changed?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Compressor trap operating?	<input checked="" type="checkbox"/> Yes	No
Regulator operating?	<input checked="" type="checkbox"/> Yes	No
Air lines performing properly?	<input checked="" type="checkbox"/> Yes	No

Sampling		
Pre-carbon water sampled?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Pre-carbon sample ports clear?	<input checked="" type="checkbox"/> Yes	No
Mid-carbon water sampled?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Mid-carbon sample ports clear?	<input checked="" type="checkbox"/> Yes	No
Post carbon water sampled?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Post carbon sample ports clear?	<input checked="" type="checkbox"/> Yes	No
Time sampled?	11:11	a.m./p.m.
Compliance event?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Product sampled?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Recovery and Disposal		
Totalizer reading.	823802	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	0.6	Gallons
DNAPL/water to oil/water separator.	4.0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum..	NA	Gallons
LNAPL/water to oil/water separator.	NA	Gallons
Product Carbon Waste Storage		
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	<input checked="" type="checkbox"/> Yes	No

NOTES:

DNAPL System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
DNAPL pump pressure (arrival)	20.0	PSI
DNAPL pump pressure (departure)	20.0	PSI
Pneumatic settings adjusted?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="checkbox"/> Yes	No
Green warning light operational?	<input checked="" type="checkbox"/> Yes	No
DNAPL drum container condition.	Good	Poor
Leaks present?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
LNAPL pump pressure (arrival)	20.0	PSI
LNAPL pump pressure (departure)	20.0	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	<input checked="" type="checkbox"/> Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
High level oil shut-off operational?	<input checked="" type="checkbox"/> Yes	No
High level water shut-off operational?	<input checked="" type="checkbox"/> Yes	No
White warning light operational?	<input checked="" type="checkbox"/> Yes	No
Separator vessel condition.	Good	Poor
Leaks present?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Separator cover and seal condition.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Separator needs cleaning?	<input checked="" type="checkbox"/> Yes	No
Separator cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
LNAPL Storage Drum		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	NA	No
Drum high level shut-off operational?	<input checked="" type="checkbox"/> Yes	No

Technician: DN/AN Date: 2-22-04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	<input checked="" type="checkbox"/> Yes	No
Drum high level shut-off operational?	<input checked="" type="checkbox"/> Yes	No
Transfer Pump and Piping		
Pump operational?	<input checked="" type="checkbox"/> Yes	No
Pump condition.	Good	Poor
Flow meter operational?	<input checked="" type="checkbox"/> Yes	No
Transfer pump flow rate.	3.61	GPM
Filter Pressure	9.0	PSI
Carbon Treatment Units		
Primary carbon unit condition.	Good	Poor
Primary carbon unit leaks?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Primary carbon unit pressure.	3.0	PSI
Primary carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	No
Secondary carbon unit rotated to primary?	<input checked="" type="checkbox"/> Yes	No
New carbon placed in primary unit?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Secondary Carbon Unit		
Secondary carbon unit condition.	Good	Poor
Secondary carbon unit leaks?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit pressure.	NA/0.0	PSI
Secondary carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Polishing unit rotated to secondary?	<input checked="" type="checkbox"/> Yes	No
New carbon placed in secondary unit?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Polishing Carbon Unit		
Polishing carbon unit condition.	Good	Poor
Polishing carbon unit leaks?	<input checked="" type="checkbox"/> Yes	No
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary unit?	<input checked="" type="checkbox"/> Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	<input checked="" type="checkbox"/> Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	<input checked="" type="checkbox"/> Yes	No

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

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	Good	Poor
Work needed on vault?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Air Compressor		
Compressor operational?	<input checked="" type="checkbox"/> Yes	No
Compressor hours.	2523.6	Hours
Oil level checked?	<input checked="" type="checkbox"/> Yes	No
Oil level changed?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Compressor trap operating?	<input checked="" type="checkbox"/> Yes	No
Regulator operating?	<input checked="" type="checkbox"/> Yes	No
Air lines performing properly?	<input checked="" type="checkbox"/> Yes	No

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

Recovery and Disposal		
Totalizer reading.	327269	2923.6 Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.1	Gallons
DNAPL/water to disposal drum.	0.4	Gallons
DNAPL/water to oil/water separator.	4.0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum..	NA	Gallons
LNAPL/water to oil/water separator.	NA	Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	<input checked="" type="checkbox"/> Yes	No

NOTES: Removed Primary Carbon for disposal and Rotated New Carbon into polishing unit.

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)	F	Arrow
Refill control setting (departure)	V	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	10 1/4	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	F	Arrow
Refill control setting (departure)	V	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
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	(Good)
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)
LNAPL Storage Drum		
LNAPL drum condition.	NA	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: DN Date: 2-27-09

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	NA	Good
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump condition.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	5.35	GPM
Filter PSI	15.5	PSI
Carbon Treatment Units		
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)
Discharge Piping		
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		
Building and Site		
Remediation shed condition.	(Good)	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
Electrical/Heating		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	(Good)	Poor
Work needed on vault?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	2526.7	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?	1230	(a.m./p.m.)
Compliance event?	(Yes)	No
Product sampled?	Yes	(No)

Recovery and Disposal		
Totalizer reading.	834409	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	0.6	Gallons
DNAPL/water to oil/water separator.	10	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum..	NA	Gallons
LNAPL/water to oil/water separator.	NA	Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	(Yes)	No

NOTES: None

Former Gastown Manufactured Gas Plant Site

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
DNAPL pump pressure (arrival)	19	PSI
DNAPL pump pressure (departure)	19	PSI
Pneumatic settings adjusted?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	L	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="checkbox"/> Yes	No
Green warning light operational?	<input checked="" type="checkbox"/> Yes	No
DNAPL drum container condition.	<input checked="" type="checkbox"/> Good	Poor
Leaks present?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Decant valve integrity.	<input checked="" type="checkbox"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="checkbox"/> Good	Poor
DNAPL pump cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
DNAPL top of pump depth.	N/A	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	L	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
LNAPL top of pump depth.	N/A	Feet
Oil/Water Separator		
High level oil shut-off operational?	<input checked="" type="checkbox"/> Yes	No
High level water shut-off operational?	<input checked="" type="checkbox"/> Yes	No
White warning light operational?	<input checked="" type="checkbox"/> Yes	No
Separator vessel condition.	Good	<input checked="" type="checkbox"/> Poor
Leaks present?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Separator cover and seal condition.	<input checked="" type="checkbox"/> Good	Poor
Decant valve integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL in separator?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Separator needs cleaning?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Separator cleaned?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
LNAPL Storage Drum		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	<input checked="" type="checkbox"/> Yes	No
Drum high level shut-off operational?	<input checked="" type="checkbox"/> Yes	No

Technician: DH Date: 03/05/04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	Good	Poor
Equalization drum leaks?	<input checked="" type="checkbox"/> Yes	No
Drum high level shut-off operational?	<input checked="" type="checkbox"/> Yes	No
Transfer Pump and Piping		
Pump operational?	<input checked="" type="checkbox"/> Yes	No
Pump condition.	<input checked="" type="checkbox"/> Good	Poor
Flow meter operational?	<input checked="" type="checkbox"/> Yes	No
Transfer pump flow rate.	9.12	GPM
Filter psi	11.0	PSI
Carbon Treatment Units		
Primary carbon unit condition.	<input checked="" type="checkbox"/> Good	Poor
Primary carbon unit leaks?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Primary carbon unit pressure.	4.0	PSI
Primary carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit rotated to primary?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
New carbon placed in primary unit?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit condition.		
Secondary carbon unit leaks?	<input checked="" type="checkbox"/> Good	Poor
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Polishing unit rotated to secondary?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary unit?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Polishing carbon unit condition.		
Polishing carbon unit leaks?	<input checked="" type="checkbox"/> Good	Poor
Polishing carbon unit pressure.	N/A	PSI
Polishing carbon removed for disposal?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary unit?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="checkbox"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="checkbox"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="checkbox"/> Yes	No
Pipe integrity at creek.	<input checked="" type="checkbox"/> Good	Poor
Pipe at creek clear?	<input checked="" type="checkbox"/> Yes	No

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

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	<input checked="" type="checkbox"/> Good	Poor
Work needed on vault?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Air Compressor		
Compressor operational?	<input checked="" type="checkbox"/> Yes	No
Compressor hours.	2329.9	Hours
Oil level checked?	<input checked="" type="checkbox"/> Yes	No
Oil level changed?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Compressor trap operating?	<input checked="" type="checkbox"/> Yes	No
Regulator operating?	<input checked="" type="checkbox"/> Yes	No
Air lines performing properly?	<input checked="" type="checkbox"/> Yes	No

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

Recovery and Disposal		
Totalizer reading.	844,250	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	67	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Recovery from LNAPL Drum		
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
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	<input checked="" type="checkbox"/> Yes	No

NOTES: Changed H₂O Filters. Emptied DNAPL Drum.

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>4</u>	Arrow
Refill control setting (departure)	<u>4</u>	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35</u>	PSI
LNAPL pump pressure (departure)	<u>35</u>	PSI
Bubbler tube operating pressure.	<u>7.0</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>4</u>	Arrow
Refill control setting (departure)	<u>4</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil/Water Separator		
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>	<u>Poor</u>
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>	No
Separator cleaned?	<u>Yes</u>	<u>No</u>
LNAPL Storage Drum		
LNAPL drum condition.	<u>NA</u>	Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: DH Date: 3/12/04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	<u>NA</u>	Good
Equalization drum leaks?	<u>Yes</u>	No
Drum high-level shut-off operational?	<u>Yes</u>	No
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.10</u>	GPM
Filter psi	<u>11.0</u>	PSI
Carbon Treatment Units		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>5.0</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>	<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>
Discharge Piping		
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		
Building and Site		
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>
Electrical/Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Extraction Wall		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2833.1</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>	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?	<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>858473</u>	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to disposal drum.	<u>0.75</u>	Gallons
DNAPL/water to oil/water separator.	<u>57</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	<u>NA</u>	Gallons
LNAPL/water to disposal drum.		Gallons
LNAPL/water to oil/water separator.		Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES: changed H₂O filters.

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
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35</u>	PSI
LNAPL pump pressure (departure)	<u>35</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil/Water Separator		
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>	<u>Poor</u>
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>	No
Separator cleaned?	<u>Yes</u>	<u>No</u>
LNAPL Storage Drum		
LNAPL drum condition.	<u>NA</u>	Good Poor
LNAPL drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No

Technician: SN Date: 3-19-04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	<u>NA</u>	Good Poor
Equalization drum leaks?	<u>Yes</u>	Yes No
Drum high level shut-off operational?	<u>Yes</u>	Yes No
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.09</u>	GPM
Filter PSI	<u>16</u>	PSI
Carbon Treatment Units		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>4.0</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>	<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>
Discharge Piping		
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		
Building and Site		
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>
Electrical/Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2836.2</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?	<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>867831</u>	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0.1</u>	Gallons
DNAPL/water to disposal drum.	<u>0.7</u>	Gallons
DNAPL/water to oil/water separator.	<u>54</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	<u>NA</u>	Gallons
LNAPL/water to disposal drum..		Gallons
LNAPL/water to oil/water separator.		Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>(Yes)</u>	No

NOTES: Adjusted flow rates on transfer pump.

Former Gastown Manufactured Gas Plant Site

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
High level oil shut-off operational?	<input checked="" type="radio"/> Yes	No
High level water shut-off operational?	<input checked="" type="radio"/> Yes	No
White warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel condition.	Good	<input checked="" type="radio"/> Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal condition.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL Storage Drum		
LNAPL drum condition.	NA	Good
LNAPL drum leaks?	<input checked="" type="radio"/> Yes	No
Drum high level shut-off operational?	<input checked="" type="radio"/> Yes	No

Technician: DN Date: 03/26/04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	NA	Good
Equalization drum leaks?	<input checked="" type="radio"/> Yes	No
Drum high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Transfer Pump and Piping		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump condition.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	7.47	GPM
Filter PSI	11.0	PSI
Carbon Treatment Units		
Primary carbon unit condition.	<input checked="" type="radio"/> Good	Poor
Primary carbon unit leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon unit pressure.	6.0	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon unit rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary unit?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon unit condition.	<input checked="" type="radio"/> Good	Poor
Secondary carbon unit leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing unit rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary unit?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon unit condition.	<input checked="" type="radio"/> Good	Poor
Polishing carbon unit leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary unit?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

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

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	<input checked="" type="radio"/> Good	Poor
Work needed on vault?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	2839.3	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Pre-carbon water sampled?	<input checked="" type="radio"/> Yes	No
Pre-carbon sample ports clear?	<input checked="" type="radio"/> Yes	No
Mid-carbon water sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Mid-carbon sample ports clear?	<input checked="" type="radio"/> Yes	No
Post carbon water sampled?	<input checked="" type="radio"/> Yes	No
Post carbon sample ports clear?	<input checked="" type="radio"/> Yes	No
Time sampled?	12:00	a.m./p.m.
Compliance event?	<input checked="" type="radio"/> Yes	No
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
Totalizer reading.	878.238	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.5	Gallons
DNAPL/water to disposal drum.	2.0	Gallons
DNAPL/water to oil/water separator.	49	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.4	Gallons
DNAPL/water to disposal drum.	1.25	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum..		Gallons
LNAPL/water to oil/water separator.		Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled	<input checked="" type="radio"/> Yes	No

NOTES: Changed H₂O Filters.

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>19</u>	PSI
DNAPL pump pressure (departure)	<u>19</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
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35</u>	PSI
LNAPL pump pressure (departure)	<u>35</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil/Water Separator		
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>	<u>Poor</u>
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>	No
Separator cleaned?	<u>Yes</u>	<u>No</u>
LNAPL Storage Drum		
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)		
Equalization Drum		
Equalization drum condition.	<u>NA</u>	Good
Equalization drum leaks?	<u>Yes</u>	No
Drum high level shut-off operational?	<u>Yes</u>	No
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump condition.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>6.23</u>	GPM
Filter PSI	<u>18</u>	PSI
Carbon Treatment Units		
Primary carbon unit condition.	<u>Good</u>	Poor
Primary carbon unit leaks?	<u>Yes</u>	<u>No</u>
Primary carbon unit pressure.	<u>4.5</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>0.0</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>
Discharge Piping		
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		
Building and Site		
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>
Electrical/Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	<u>Good</u>	Poor
Work needed on vault?	<u>Yes</u>	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2842.4</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>	No
Post carbon water sampled?	<u>Yes</u>	<u>No</u>
Post carbon sample ports clear?	<u>Yes</u>	No
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>391293</u>	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to disposal drum.	<u>2.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>42</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
Recovery from LNAPL Drum		
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
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled	<u>Yes</u>	No

NOTES: Oil/Water Separator needs cleaning. Need to order more filters and deliver a new 55gal drum to site.

DNAPL System		
Operational upon arrival?	Yes	(No)
DNAPL pump pressure (arrival)	0	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
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
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
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)
LNAPL Storage Drum		
LNAPL drum condition.	NA	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: DA Date: 4-29-04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	NA	Good
Equalization drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump condition.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	6.70	GPM
Filter psi	11	PSI
Carbon Treatment Units		
Primary carbon unit condition.	(Good)	Poor
Primary carbon unit leaks?	Yes	(No)
Primary carbon unit pressure.	7.0	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)
Discharge Piping		
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		
Building and Site		
Remediation shed condition.	(Good)	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
Electrical/Heating		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	(Good)	Poor
Work needed on vault?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	2845.4	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.	895202	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.4	Gallons
DNAPL/water to disposal drum.	1.5	Gallons
DNAPL/water to oil/water separator.	65	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.25	Gallons
DNAPL/water to disposal drum.	1.75	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum.		Gallons
LNAPL/water to oil/water separator.		Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled	(Yes)	No

NOTES: Dropped off 14 55 gal Drum. Oil/Water separator needs cleaning.

Former Gastown Manufactured Gas Plant Site

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="checkbox"/> No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
High level oil shut-off operational?	<input checked="" type="checkbox"/> Yes	No
High level water shut-off operational?	<input checked="" type="checkbox"/> Yes	No
White warning light operational?	<input checked="" type="checkbox"/> Yes	No
Separator vessel condition.	<input checked="" type="checkbox"/> Good	<input checked="" type="checkbox"/> Poor
Leaks present?	Yes	<input checked="" type="checkbox"/> No
Separator cover and seal condition.	<input checked="" type="checkbox"/> Good	Poor
Decant valve integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="checkbox"/> No
Separator needs cleaning?	<input checked="" type="checkbox"/> Yes	No
Separator cleaned?	Yes	<input checked="" type="checkbox"/> No
LNAPL Storage Drum		
LNAPL drum condition.	Good	Poor
LNAPL drum leaks?	Yes	No
Drum high level shut-off operational?	Yes	No

Technician: DA Date: 6-16-04

LNAPL/Groundwater System - (Continued)		
Equalization Drum		
Equalization drum condition.	NA	Good
Equalization drum leaks?	NA	Yes
Drum high level shut-off operational?	NA	Yes
Transfer Pump and Piping		
Pump operational?	<input checked="" type="checkbox"/> Yes	No
Pump condition.	<input checked="" type="checkbox"/> Good	Poor
Flow meter operational?	<input checked="" type="checkbox"/> Yes	No
Transfer pump flow rate.	6.35	GPM
Filter Pressure	13	PSI
Carbon Treatment Units		
Primary carbon unit condition.	<input checked="" type="checkbox"/> Good	Poor
Primary carbon unit leaks?	Yes	<input checked="" type="checkbox"/> No
Primary carbon unit pressure.	5.0	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit rotated to primary?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in primary unit?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit condition.	<input checked="" type="checkbox"/> Good	Poor
Secondary carbon unit leaks?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon unit pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Polishing unit rotated to secondary?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary unit?	Yes	<input checked="" type="checkbox"/> No
Polishing carbon unit condition.		
Polishing carbon unit leaks?	<input checked="" type="checkbox"/> Good	Poor
Polishing carbon unit pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary unit?	Yes	<input checked="" type="checkbox"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="checkbox"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="checkbox"/> Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	<input checked="" type="checkbox"/> Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous		
Building and Site		
Remediation shed condition.	<input checked="" type="checkbox"/> Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	<input checked="" type="checkbox"/> No
Spill evidence?	Yes	<input checked="" type="checkbox"/> No
Electrical/Heating		
Electric controls operational	<input checked="" type="checkbox"/> Yes	No
Heater operational	<input checked="" type="checkbox"/> Yes	No

Miscellaneous - (Continued)		
Extraction Well		
Overall vault condition.	<input checked="" type="checkbox"/> Good	Poor
Work needed on vault?	Yes	<input checked="" type="checkbox"/> No
Air Compressor		
Compressor operational?	<input checked="" type="checkbox"/> Yes	No
Compressor hours.	7846.5	Hours
Oil level checked?	<input checked="" type="checkbox"/> Yes	No
Oil level changed?	Yes	<input checked="" type="checkbox"/> No
Compressor trap operating?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Regulator operating?	<input checked="" type="checkbox"/> Yes	No
Air lines performing properly?	<input checked="" type="checkbox"/> Yes	No

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

Recovery and Disposal		
Totalizer reading.	903562	Gallons
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	1.5	Gallons
DNAPL/water to oil/water separator.	38	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Recovery from LNAPL Drum		
Pure LNAPL to disposal drum.	NA	Gallons
LNAPL/water to disposal drum.		Gallons
LNAPL/water to oil/water separator.		Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled	<input checked="" type="checkbox"/> Yes	No

NOTES: Changed H₂O filters and Emptied DNAPL Drum.

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>18</u>	PSI
DNAPL pump pressure (departure)	<u>18</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 integrity.	<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.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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>Open</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	Yes	<u>No</u>

Technician: D.H.
 Date: 04-23-04

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>5.95</u>	GPM
Totalizer reading (cumulative volume).	<u>913792</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>30/14</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	<u>Poor</u>
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>9.0</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>0.0</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	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 integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
<u>Electrical and Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2851.8</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		
Primary carbon influent sampled?	Yes	<u>No</u>
Primary carbon effluent sampled?	Yes	<u>No</u>
Secondary carbon effluent sampled?	Yes	<u>No</u>
Compliance event?	Yes	<u>No</u>
Time sampled.	<u>NA</u>	a.m./p.m.
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>0.2</u>	Gallons
DNAPL/water to disposal drum.	<u>0.8</u>	Gallons
DNAPL/water to oil/water separator.	<u>35</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: Changed H₂O filters.
Primary Carbon unit
is need of another treatment.
(pressure is high).
Emptied DNAPL Drum.

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	0	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 integrity.	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.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	36	PSI
LNAPL pump pressure (departure)	36	PSI
Bubbler tube operating pressure.	20	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>		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.61	GPM
Totalizer reading (cumulative volume).	0	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	19/11	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	2.5	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	Yes	No
Secondary carbon drum pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Good	Poor
Polishing carbon drum pressure.	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	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 integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	2854.6	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	1100	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	0.6	Gallons
DNAPL/water to oil/water separator.	58	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0.1	Gallons
DNAPL/water to disposal drum.	0.4	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Changed Leaking Carbon vessel. Sampled system/product, changed H₂O filters and bleached system. Rotated Carbon.

Technician: DH / RK
Date: 04-30-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

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
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity:	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	9.23	GPM
Totalizer reading (cumulative volume).	7761.0*	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	11/11	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	2.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heaters operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	2358.2	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	3.8	Gallons
DNAPL/water to oil/water separator.	25	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Emptied DNAPL Drum and adjusted transfer pump flow rate.

Technician: DH
 Date: 05/07/04

F.U.# 116 057 UG6

C & W Environmental

JUN-23-2004 08:38

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	17	PSI
DNAPL pump pressure (departure)	17	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	NA	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
White warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	8.99	GPM
Totalizer reading (cumulative volume).	11647.5	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	10.0	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	3.0	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<u>Secondary Carbon Drum</u>		
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
<u>Polishing Drum</u>		
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	No
Repairs/work needed?	Yes	<input checked="" type="radio"/> No
Spill evidence?	Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	2861.6	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Oil level changed?	Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Compliance event?	Yes	<input checked="" type="radio"/> No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	0.8	Gallons
DNAPL/water to oil/water separator.	3.0	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: Emptied DNAPL drum.
Did not change H₂O filters.
Cleared obstruction in totalizer from OWS.

Technician: DH
Date: 05-14-04

C & W Environmental JUN-23-2004 08:33

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	17	PSI
DNAPL pump pressure (departure)	17	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 integrity.	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.	NA	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
<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>		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.68	GPM
Totalizer reading (cumulative volume).	165254	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	10/10	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3.5	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	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 integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	2405.4	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	0.2	Gallons
DNAPL/water to oil/water separator.	7.5	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: System fully operational upon arrival + departure. H₂O filters not changed (no bio activity). Limited recovery possibly due to low weekly rainfall.

Technician: D. H.
Date: 5/21/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	17	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 integrity.	(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.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	17	PSI
LNAPL pump pressure (departure)	17	PSI
Bubbler tube operating pressure.	70	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>		
Water high level shut-off operational?	(Yes)	No
White warning light operational?	(Yes)	No
Separator vessel integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Separator cover and seal integrity.	(Good)	Poor
Decant valve integrity.	(Good)	Poor
LNAPL in separator?	Yes	(No)
Separator needs cleaning?	Yes	(No)
Separator cleaned?	Yes	(No)

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.48	GPM
Totalizer reading (cumulative volume).	29773.2	Gallons
Water filters changed?	Yes	(No)
Filter unit pressure (arrival/departure)	14/14	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	4.5	PSI
Primary carbon removed for disposal?	Yes	(No)
Secondary carbon drum rotated to primary?	Yes	(No)
New carbon placed in primary drum?	Yes	(No)
Secondary carbon drum integrity.	(Good)	Poor
Secondary carbon drum leaks?	Yes	(No)
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	(No)
Polishing drum rotated to secondary?	Yes	(No)
New carbon placed in secondary drum?	Yes	(No)
Polishing carbon drum integrity.	(Good)	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	(No)
New carbon placed in primary drum?	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 integrity.	(Good)	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
<u>Electrical and Heating</u>		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	Yes	(No)
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	2561.0	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		
Primary carbon influent sampled?	Yes	(No)
Primary carbon effluent sampled?	Yes	(No)
Secondary carbon effluent sampled?	(Yes)	No
Compliance event?	(Yes)	No
Time sampled.		a.m./p.m.
Product sampled?	Yes	(No)

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0.1	Gallons
DNAPL/water to disposal drum.	0.1	Gallons
DNAPL/water to oil/water separator.	0.0	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	(Yes)	No
Drums palletized?	(Yes)	No

Notes: Performed monthly sampling event.

Technician: DH
 Date: 05-28-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

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)	R	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	7.47	GPM
Totalizer reading (cumulative volume).	37772.3	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	14/14	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	2872.5	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.25	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Technician: D.H.
 Date: 6/14/04

Notes:

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	22	PSI
Pneumatic settings adjusted?	(Yes)	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
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)	35	PSI
LNAPL pump pressure (departure)	32	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
White warning light operational?	(Yes)	No
Separator vessel integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Separator cover and seal integrity.	(Good)	Poor
Decant valve integrity.	(Good)	Poor
LNAPL in separator?	Yes	(No)
Separator needs cleaning?	Yes	(No)
Separator cleaned?	Yes	(No)

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	8.10	GPM
Totalizer reading (cumulative volume).	43223.0	Gallons
Water filters changed?	Yes	(No)
Filter unit pressure (arrival/departure)	15	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	5.5	PSI
Primary carbon removed for disposal?	Yes	(No)
Secondary carbon drum rotated to primary?	Yes	(No)
New carbon placed in primary drum?	Yes	(No)
Secondary carbon drum integrity.	(Good)	Poor
Secondary carbon drum leaks?	Yes	(No)
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	(No)
Polishing drum rotated to secondary?	Yes	(No)
New carbon placed in secondary drum?	Yes	(No)
Polishing carbon drum integrity.	(Good)	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	(No)
New carbon placed in primary drum?	Yes	(No)
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	(Good)	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
Electrical and Heating		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	2075	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		
Primary carbon influent sampled?	Yes	(No)
Primary carbon effluent sampled?	Yes	(No)
Secondary carbon effluent sampled?	Yes	(No)
Compliance event?	Yes	(No)
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	(No)

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
DNAPL/water to oil/water separator.	0.0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	3.0	Drums
Spent carbon drums	2.0	Drums
PPE/Solids drums	2.0	Drums
LNAPL drums	0	Drums
Drums labeled?	(Yes)	No
Drums palletized?	(Yes)	(No)

Notes: ADJUSTED DNAPL Pump pressure AND DISCHARGE & Refill - POOR Recovery & DNAPL Drum < 1.0 GAL H₂O & DNAPL ALSO - 7 Drums of soil Polishing Activities 1 - Drum H₂O Sample onsite

Technician: RK
Date: 6/11/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

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
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35.0</u>	PSI
LNAPL pump pressure (departure)	<u>35.0</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.74</u>	GPM
Totalizer reading (cumulative volume).	<u>446974</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>19.0/14.0</u>	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks? <i>(Yes upon Arrival)</i>	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>5.0</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>0.0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	<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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2571.0</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		
Primary carbon influent sampled?	<u>Yes</u>	<u>No</u>
Primary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Secondary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Compliance event?	<u>Yes</u>	<u>No</u>
Time sampled.	<u>NA</u>	a.m./p.m.
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0.1</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>0.0</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: Primary Carbon drum leaking upon arrival. lid was inspected/replaced and tightened. No leaks upon departure.

Technician: DH
 Date: 06/18/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	22.0	PSI
DNAPL pump pressure (departure)	22.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	35.0	PSI
LNAPL pump pressure (departure)	35.0	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	7.98	GPM
Totalizer reading (cumulative volume).	5374.8	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	16/8.0	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	0.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	2882.5	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	13:50	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
DNAPL/water to oil/water separator.	0.0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	3	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Technician: DH
 Date: 06/29/04

Delivered 3 cases
 PX 10:40

501L DRUMS - 17
 Notes:
 PUMPED 23 DRUMS OF H₂O
 THROUGH SYSTEM.
 TOTAL of 18 DRUMS REMOVED
 FROM DISPOSAL - STAYED BEHIND
 SHED SOLIDS IN DRUMS, CONSOL. DATE

Former Gastown Manufactured Gas Plant Site

Table 4-1

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
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<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.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35</u>	PSI
LNAPL pump pressure (departure)	<u>35</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<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>

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.61</u>	GPM
Totalizer reading (cumulative volume).		Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)	<u>12/12</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>1.0</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	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 integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
<u>Electrical and Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2885.9</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		
Primary carbon influent sampled?	<u>Yes</u>	<u>No</u>
Primary carbon effluent sampled?	Yes	<u>No</u>
Secondary carbon effluent sampled?	Yes	<u>No</u>
Compliance event?	Yes	<u>No</u>
Time sampled.	<u>NA</u>	a.m./p.m.
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>0.0</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
<u>Product Carbon Waste Storage *</u>		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: # of Drums listed in "Waste storage" is the number generated from the remediation system (does not include drilling).

Technician: DW
Date: 7/22/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>25.0</u>	PSI
DNAPL pump pressure (departure)	<u>25.0</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
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35.0</u>	PSI
LNAPL pump pressure (departure)	<u>35.0</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.61</u>	GPM
Totalizer reading (cumulative volume).	<u>63103.2</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>11 psi / 11 psi</u>	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>6.0</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>1.0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	<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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>7887.2</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		
Primary carbon influent sampled?	<u>Yes</u>	<u>No</u>
Primary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Secondary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Compliance event?	<u>Yes</u>	<u>No</u>
Time sampled.	<u>NA</u>	a.m./p.m.
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.2</u>	Gallons
DNAPL/water to oil/water separator.	<u>0.4</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: Tightened lock ring in primary carbon vessel. Removed trash from shed.

Technician: DA
 Date: 07/09/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
LNAPL pump pressure (arrival)	25	PSI
LNAPL pump pressure (departure)	25	PSI
Bubbler tube operating pressure.	7.2	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="checkbox"/> No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
Water high level shut-off operational?	<input checked="" type="checkbox"/> Yes	No
White warning light operational?	<input checked="" type="checkbox"/> Yes	No
Separator vessel integrity.	<input checked="" type="checkbox"/> Good	Poor
Leaks present?	Yes	<input checked="" type="checkbox"/> No
Separator cover and seal integrity.	<input checked="" type="checkbox"/> Good	Poor
Decant valve integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="checkbox"/> No
Separator needs cleaning?	Yes	<input checked="" type="checkbox"/> No
Separator cleaned?	Yes	<input checked="" type="checkbox"/> No

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<input checked="" type="checkbox"/> Yes	No
Pump integrity.	<input checked="" type="checkbox"/> Good	Poor
Flow meter operational?	<input checked="" type="checkbox"/> Yes	No
Transfer pump flow rate.	7.84	GPM
Totalizer reading (cumulative volume).	69774.2	Gallons
Water filters changed?	Yes	<input checked="" type="checkbox"/> No
Filter unit pressure (arrival/departure)	13/13	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	<input checked="" type="checkbox"/> Poor
Primary carbon drum leaks?	<input checked="" type="checkbox"/> Yes	No
Primary carbon drum pressure.	6.0	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum integrity.	<input checked="" type="checkbox"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="checkbox"/> No
Polishing carbon drum integrity.	<input checked="" type="checkbox"/> Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="checkbox"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="checkbox"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="checkbox"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="checkbox"/> Yes	No
Pipe integrity at creek.	<input checked="" type="checkbox"/> Good	Poor
Pipe at creek clear?	<input checked="" type="checkbox"/> Yes	No

Miscellaneous		
Building and Site		
Remediation shed integrity.	<input checked="" type="checkbox"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="checkbox"/> Yes	No
Repairs/work needed?	Yes	<input checked="" type="checkbox"/> No
Spill evidence?	Yes	<input checked="" type="checkbox"/> No
Electrical and Heating		
Electric controls operational	<input checked="" type="checkbox"/> Yes	No
Heater operational	<input checked="" type="checkbox"/> Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="checkbox"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="checkbox"/> No
Air Compressor		
Compressor operational?	<input checked="" type="checkbox"/> Yes	No
Compressor hours.	2892.6	Hours
Oil level checked?	<input checked="" type="checkbox"/> Yes	No
Oil level changed?	Yes	<input checked="" type="checkbox"/> No
Compressor trap operating?	<input checked="" type="checkbox"/> Yes	No
Regulator operating?	<input checked="" type="checkbox"/> Yes	No
Air lines performing properly?	<input checked="" type="checkbox"/> Yes	No

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="checkbox"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="checkbox"/> No
Compliance event?	Yes	<input checked="" type="checkbox"/> No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	<input checked="" type="checkbox"/> No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
DNAPL/water to oil/water separator.	0.0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="checkbox"/> Yes	No
Drums palletized?	<input checked="" type="checkbox"/> Yes	No

NOTES: Observed system for proper operation. Bleed off air from filter housing. Primary Carbon vessel needs repair/replacing.

Technician: DA
 Date: 07/16/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>21.0</u>	PSI
DNAPL pump pressure (departure)	<u>21.0</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
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35.0</u>	PSI
LNAPL pump pressure (departure)	<u>35.0</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<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>

Technician: OH

Date: 07/23/04

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>8.61</u>	GPM
Totalizer reading (cumulative volume).	<u>26676.9</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>14/14</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>6.0</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>1.0</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<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 integrity.	<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 and Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2895.8</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		
Primary carbon influent sampled?	<u>Yes</u>	<u>No</u>
Primary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Secondary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Compliance event?	<u>Yes</u>	<u>No</u>
Time sampled.	<u>NA</u>	a.m./p.m.
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to oil/water separator.	<u>0.0</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: Remove/disassemble/clean/Repair Regulators at well head. Blow out DNAPL line (with compressor). Observe system and complete site check.

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>22.0</u>	PSI
DNAPL pump pressure (departure)	<u>22.0</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<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.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>35.0</u>	PSI
LNAPL pump pressure (departure)	<u>35.0</u>	PSI
Bubbler tube operating pressure.	<u>7.0</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?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<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>

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.85</u>	GPM
Totalizer reading (cumulative volume).	<u>62821.3</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)	<u>15/15</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6.0</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>1.0</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1.5</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	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 integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
<u>Electrical and Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2899.0</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		
Primary carbon influent sampled?	<u>Yes</u>	<u>No</u>
Primary carbon effluent sampled?	Yes	<u>No</u>
Secondary carbon effluent sampled?	<u>Yes</u>	No
Compliance event?	<u>Yes</u>	No
Time sampled.	<u>1500</u>	a.m./p.m.
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>0.2</u>	Gallons
DNAPL/water to disposal drum.	<u>0.4</u>	Gallons
DNAPL/water to oil/water separator.	<u>60</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL/water to disposal drum.	<u>0.0</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Technician: DH
 Date: 07/30/04

Notes: System operational upon arrival and departure. Emptied DNAPL drum and collected system data and samples

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	21.0	PSI
DNAPL pump pressure (departure)	21.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<i>DNAPL Drum</i>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
<i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	35.0	PSI
LNAPL pump pressure (departure)	35.0	PSI
Bubbler tube operating pressure.	2.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	NA	Feet
<i>Oil/Water Separator</i>		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

Technician: DH/EW
 Date: 08/06/04

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	6.26/8.33	GPM
Totalizer reading (cumulative volume).	9477.6	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	24/14	PSI
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<i>Electrical and Heating</i>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<i>Air Compressor</i>		
Compressor operational?	Yes	No
Compressor hours.	270.0	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	0.1	Gallons
DNAPL/water to disposal drum.	0.2	Gallons
DNAPL/water to oil/water separator.	58	Gallons
<i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
<i>Product Carbon Waste Storage</i>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Emptied DNAPL drum (high level). Changed H₂O filters cleaned inside filter housing.

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	<input checked="" type="radio"/> No
DNAPL pump pressure (arrival)	0	PSI
DNAPL pump pressure (departure)	20.0	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	Good	<input checked="" type="radio"/> Poor
Leaks present?	<input checked="" type="radio"/> Yes	No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	35.0	PSI
LNAPL pump pressure (departure)	35.0	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	NA	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
White warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	No
Transfer pump flow rate.	7.47	GPM
Totalizer reading (cumulative volume).	99502.4	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	13/13	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5.0	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

Miscellaneous		
<u>Building and Site</u>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	<input checked="" type="radio"/> No
Spill evidence?	Yes	<input checked="" type="radio"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	2903.2	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Primary carbon influent sampled?	Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	Yes	<input checked="" type="radio"/> No
Compliance event?	Yes	<input checked="" type="radio"/> No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0.1	Gallons
DNAPL/water to disposal drum.	0.2	Gallons
DNAPL/water to oil/water separator.	6.2	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	3	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: High level @ DNAPL Drum.

Technician: DH
 Date: 08/13/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

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
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
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)	32	PSI
LNAPL pump pressure (departure)	32	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	NA	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	7.95	GPM
Totalizer reading (cumulative volume).	103340	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	13.0	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	7.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	2905.2	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	700.0	Gallons
DNAPL/water to oil/water separator.	70.0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Emptied DNAPL Drum and shut off flow to drum at control box. Collected system data.

Technician: DW
Date: 08/20/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="checkbox"/>	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	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?	<input checked="" type="checkbox"/>	No
Green warning light operational?	<input checked="" type="checkbox"/>	No
DNAPL drum container integrity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Poor
Leaks present?	Yes	<input checked="" type="checkbox"/> No
Decant valve integrity.	<input checked="" type="checkbox"/>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="checkbox"/> No
DNAPL top of pump depth.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="checkbox"/>	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	7.0	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="checkbox"/> 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	<input checked="" type="checkbox"/> No
LNAPL top of pump depth.	NA	Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<input checked="" type="checkbox"/>	No
White warning light operational?	<input checked="" type="checkbox"/>	No
Separator vessel integrity.	<input checked="" type="checkbox"/>	Poor
Leaks present?	Yes	<input checked="" type="checkbox"/> No
Separator cover and seal integrity.	<input checked="" type="checkbox"/>	Poor
Decant valve integrity.	<input checked="" type="checkbox"/>	Poor
LNAPL in separator?	Yes	<input checked="" type="checkbox"/> No
Separator needs cleaning?	Yes	<input checked="" type="checkbox"/> No
Separator cleaned?	Yes	<input checked="" type="checkbox"/> No

Technician: DH
 Date: 08/27/04

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	<input checked="" type="checkbox"/>	No
Pump integrity.	<input checked="" type="checkbox"/>	Poor
Flow meter operational?	<input checked="" type="checkbox"/>	No
Transfer pump flow rate.	7.73	GPM
Totalizer reading (cumulative volume).	105369	Gallons
Water filters changed?	Yes	<input checked="" type="checkbox"/> No
Filter unit pressure (arrival/departure)	13.0	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Primary carbon drum pressure.	7.0	PSI
Primary carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum rotated to primary?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Polishing drum rotated to secondary?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in secondary drum?	Yes	<input checked="" type="checkbox"/> No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	<input checked="" type="checkbox"/> No
New carbon placed in primary drum?	Yes	<input checked="" type="checkbox"/> 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 integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	<input checked="" type="checkbox"/> No
Spill evidence?	Yes	<input checked="" type="checkbox"/> No
<u>Electrical and Heating</u>		
Electric controls operational	<input checked="" type="checkbox"/>	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="checkbox"/> No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	2466.0	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	<input checked="" type="checkbox"/> No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Primary carbon influent sampled?	<input checked="" type="checkbox"/>	No
Primary carbon effluent sampled?	<input checked="" type="checkbox"/>	No
Secondary carbon effluent sampled?	Yes	<input checked="" type="checkbox"/> No
Compliance event?	Yes	No
Time sampled.	1430	a.m./p.m.
Product sampled?	Yes	<input checked="" type="checkbox"/> No

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

Notes: Performed Monthly Sampling

Former Gastown Manufactured Gas Plant Site

Table 4-1

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
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	<u>Poor</u>
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>30</u>	PSI
LNAPL pump pressure (departure)	<u>30</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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.59</u>	GPM
Totalizer reading (cumulative volume).	<u>113404</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit pressure (arrival/departure)	<u>14.9/14.0</u>	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6.0</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>2.0</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2908.6</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		
Primary carbon influent sampled?	Yes	<u>No</u>
Primary carbon effluent sampled?	Yes	<u>No</u>
Secondary carbon effluent sampled?	Yes	<u>No</u>
Compliance event?	Yes	<u>No</u>
Time sampled.	<u>NA</u>	a.m./p.m.
Product sampled?	Yes	<u>No</u>

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

Notes:

Collected system data and adjusted wos T-pump flow rate.

Technician: DH
Date: 9/3/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
<i>DNAPL Drum</i>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity	Good	Poor
<i>DNAPL Pump and Piping</i>		
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)	22	PSI
LNAPL pump pressure (departure)	22	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↖	Arrow
Refill control setting (departure)	↓	Arrow
<i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<i>Oil/Water Separator</i>		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	7.52	GPM
Totalizer reading (cumulative volume).	116291	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	13	PSI
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	2.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<i>Electrical and Heating</i>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<i>Air Compressor</i>		
Compressor operational?	Yes	No
Compressor hours.	2709.3	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	NA	Gallons
DNAPL/water to oil/water separator.		Gallons
<i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	NA	Gallons
DNAPL/water to disposal drum.		Gallons
<i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: System fully operational upon arrival & departure. DNAPL pump intentionally off.

Technician: RK
Date: 9/10/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	(No)
DNAPL pump pressure (arrival)	0	PSI
DNAPL pump pressure (departure)	0	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 integrity.	(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.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	35	PSI
LNAPL pump pressure (departure)	35	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>		
Water high level shut-off operational?	(Yes)	No
White warning light operational?	(Yes)	No
Separator vessel integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Separator cover and seal integrity.	(Good)	Poor
Decant valve integrity.	(Good)	Poor
LNAPL in separator?	Yes	(No)
Separator needs cleaning?	Yes	(No)
Separator cleaned?	Yes	(No)

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	7.85	GPM
Totalizer reading (cumulative volume).	122774	Gallons
Water filters changed?	Yes	(No)
Filter unit pressure (arrival/departure)	14/14	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	6.0	PSI
Primary carbon removed for disposal?	Yes	(No)
Secondary carbon drum rotated to primary?	Yes	(No)
New carbon placed in primary drum?	Yes	(No)
Secondary carbon drum integrity.	(Good)	Poor
Secondary carbon drum leaks?	Yes	(No)
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	(No)
Polishing drum rotated to secondary?	Yes	(No)
New carbon placed in secondary drum?	Yes	(No)
Polishing carbon drum integrity.	(Good)	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.		PSI
Polishing carbon removed for disposal?	Yes	(No)
New carbon placed in primary drum?	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 integrity.	(Good)	Poor
Shed ventilation acceptable?	(Yes)	No
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	(No)
<u>Electrical and Heating</u>		
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	Yes	(No)
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	2910.7	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		
Primary carbon influent sampled?	Yes	(No)
Primary carbon effluent sampled?	Yes	(No)
Secondary carbon effluent sampled?	Yes	(No)
Compliance event?	Yes	(No)
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	(No)

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

Notes: — Adjusted ows T-pump
flow rate

Technician: DA
Date: 9/16/04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>0</u>	PSI
DNAPL pump pressure (departure)	<u>0</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<i>DNAPL Drum</i>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	Good	<u>Poor</u>
Leaks present?	<u>Yes</u>	No
Decant valve integrity.	<u>Good</u>	Poor
<i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>NA</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>28.0</u>	PSI
LNAPL pump pressure (departure)	<u>28.0</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
<i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
<i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<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>

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>6.25</u>	GPM
Totalizer reading (cumulative volume).	<u>126375</u>	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	<u>14/14</u>	PSI
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	<u>Poor</u>
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>7.0</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>2.0</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>NA</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
<i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
<i>Electrical and Heating</i>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
<i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>2912.8</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		
Primary carbon influent sampled?	<u>Yes</u>	No
Primary carbon effluent sampled?	Yes	<u>No</u>
Secondary carbon effluent sampled?	<u>Yes</u>	No
Compliance event?	<u>Yes</u>	No
Time sampled.	<u>1330</u>	a.m./p.m.
Product sampled?	Yes	<u>No</u>

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

Notes: Performed Monthly Sampling

Technician: DA/JK
 Date: 9.28.04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

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

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.63	GPM
Totalizer reading (cumulative volume).	139262	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	14.0/14.0	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
Discharge Piping		
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		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	2915.7	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	NA	Gallons
DNAPL/water to disposal drum.	NA	Gallons
DNAPL/water to oil/water separator.	NA	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Moved Core Boxes to Spaulding Fibre.

Technician: DH
Date: 11-5-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
<i>NA</i>		
<u>DNAPL Drum</u>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	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.	<i>NA</i>	Feet

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

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	8.58	GPM
Totalizer reading (cumulative volume).	138262	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	14.9/4.0	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	<i>NA</i>	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	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 integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	2915.7	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	11:40	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	0.6	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Cleaned out ~~the~~ totalizer after transfer pump. No obstructions observed. Washed out and then replaced

Technician: DH
Date: 11-12-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

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

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	7.49	GPM
Totalizer reading (cumulative volume).	138280	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	14/14	PSI
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	30	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
<i>Secondary Carbon Drum</i>		
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
<i>Polishing Carbon Drum</i>		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<i>Electrical and Heating</i>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<i>Air Compressor</i>		
Compressor operational?	Offline	No
Compressor hours.	2757	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Offline	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	NA	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
<i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Turned up heat in ows shed and turned on heater in filtration shed.

Technician: DH
 Date: 11-19-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

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

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	7.48	GPM
Totalizer reading (cumulative volume).	139409	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	15/15	PSI
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Good	Poor
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<i>Electrical and Heating</i>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<i>Air Compressor</i>		
Compressor operational?	offline	No
Compressor hours.	2915.7	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	0645	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	NA	Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum	0.0	Gallons
<i>Product Carbon Waste Storage</i>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Performed monthly sampling.
Turned up heat in T-pump side of shed.

Technician: DA
Date: 11-28-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	NA	PSI
DNAPL pump pressure (departure)		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 integrity.	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.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	NA	PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure		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>		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity	Good	Poor
Decant valve integrity	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	6.96	GPM
Totalizer reading (cumulative volume)	146750	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	16.2	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	2.2	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<u>Discharge Piping</u>		
Pipe integrity in shed	Good	Poor
Pipe integrity at catch basin	Good	Poor
Pipe at catch basin clean?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clean?	Yes	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	2915.7	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum	NA	Gallons
DNAPL water to disposal drum.		Gallons
DNAPL water to oil water separator.		Gallons
<u>Recovery from Oil Water Separator</u>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL water to disposal drum	0.0	Gallons
<u>Product Carbon Waste Storage</u>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	3	Drums
PPF Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Collected System data.

Technician: DH
 Date: 12-4-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

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

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	6.57	GPM
Totalizer reading (cumulative volume)	15350.2	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	17/17	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	30	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	1.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
Discharge Piping		
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		
Building and Site		
Remediation shed integrity	Good	Poor
Shield ventilation acceptable?	Yes	No
Repairs work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	2418.7	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled	NA	a.m. p.m.
Product sampled?	Yes	No

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

Notes:

Technician: Dennis Hoffman

Date: 12-10-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

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

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	7.98	GPM
Totalizer reading (cumulative volume).	162439	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	18.5/10.5	PSI
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<i>Electrical and Heating</i>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<i>Air Compressor</i>		
Compressor operational?	Yes	No
Compressor hours.	NA	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	NA	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	NA	Gallons
DNAPL/water to disposal-drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	0.2	Gallons
DNAPL/water to disposal drum.	0.3	Gallons
<i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Changed H₂O Filters - Added Bleach to Filter housing to discourage Bio-buildup.

Technician: DH
Date: 12-18-04

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
<i>Offline</i>		
LNAPL Pump and Piping		
LNAPL piping integrity	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>NA</u>	Feet
Oil Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
White warning light operational?	<u>Yes</u>	No
Separator vessel integrity	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity	<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>

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>7.6</u>	GPM
Totalizer reading (cumulative volume)	<u>17000</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>155/155</u>	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>3.0</u>	PSI
Primary carbon removed for disposal?	Yes	<u>No</u>
Secondary carbon drum rotated to primary?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Secondary carbon drum integrity		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	<u>2.0</u>	PSI
Secondary carbon removed for disposal?	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon placed in secondary drum?	Yes	<u>No</u>
Polishing carbon drum integrity		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	<u>1.4</u>	PSI
Polishing carbon removed for disposal?	Yes	<u>No</u>
New carbon placed in primary drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed	<u>Good</u>	Poor
Pipe integrity at catch basin	<u>Good</u>	Poor
Pipe at catch basin clean?	<u>Yes</u>	No
Pipe integrity at creek	<u>Good</u>	Poor
Pipe at creek clean?	<u>Yes</u>	No

Miscellaneous		
Building and Site		
Remediation shed integrity.	<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>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>Offline</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		
Primary carbon influent sampled?	Yes	<u>No</u>
Primary carbon effluent sampled?	Yes	<u>No</u>
Secondary carbon effluent sampled?	Yes	<u>No</u>
Compliance event?	Yes	<u>No</u>
Time sampled	<u>NA</u>	a.m./p.m.
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>NA</u>	Gallons
DNAPL water to disposal drum.		Gallons
DNAPL water to oil water separator.		Gallons
Recovery from Oil Water Separator		
Pure DNAPL to disposal drum.	<u>0.0</u>	Gallons
DNAPL water to disposal drum	<u>0.0</u>	Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	<u>3</u>	Drums
Spent carbon drums	<u>3</u>	Drums
PPE Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Technician: DH
 Date: 11-23-04

Notes: H₂O filters consistently high considering bleach treatment @ prior site check.

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	NA	PSI
DNAPL pump pressure (departure)	NA	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 integrity.	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.	NA	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		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>		
Water high level shut-off operational?	Yes	No
White warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	6.07	GPM
Totalizer reading (cumulative volume).	174654	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	17/17	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3.0	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to primary?	Yes	No
New carbon placed in primary drum?	Yes	No
<u>Secondary Carbon Drum</u>		
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
<u>Polishing Carbon Drum</u>		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	NA	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	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 integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	NA	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		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	0800	a.m./p.m.
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	NA	Gallons
DNAPL/water to disposal drum.	NA	Gallons
DNAPL/water to oil/water separator.	NA	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0.0	Gallons
DNAPL/water to disposal drum.	0.0	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	3	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	2	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes:

None - Performed Monthly Sampling

Technician: DH

Date: 12-30-04