

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

**2006 SITE VISIT CHECKLISTS  
FOR THE GROUNDWATER COLLECTION  
& TREATMENT SYSTEM**

Sometime in 2006 EmpireGeo took over the operation of the Groundwater Collection & Treatment System. The first Site Visit Checklists for 2006 are from May, with the remainder of the year being complete.

# Former Gastown Manufactured Gas Plant Site

Table 4-1

# Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>NO</u>	No
DNAPL pump pressure (arrival)	<u>34</u>	PSI
DNAPL pump pressure (departure)	<u>34</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	No
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	No
DNAPL top of pump depth.	<u>24 1/2</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>3</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	No
LNAPL top of pump depth.	<u>14</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?	<u>Yes</u>	No
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	No

Technician: ART KOSKE

Date: 5-5-06

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>6.2</u>	GPM
Totalizer reading (cumulative volume).	<u>434556</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>30/23</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>6</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	No
Secondary carbon drum rotated to primary?	<u>Yes</u>	No
New carbon placed in primary drum?	<u>Yes</u>	No
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	No
Secondary carbon drum pressure.	<u>2</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	No
Polishing drum rotated to secondary?	<u>Yes</u>	No
New carbon placed in secondary drum?	<u>Yes</u>	No
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	No
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	No
New carbon placed in primary drum?	<u>Yes</u>	No
<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>	No
Spill evidence?	<u>Yes</u>	No
<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>	No
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>3277</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</u>	Gallons
DNAPL/water to oil/water separator.	<u>1</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</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>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: ADJUSTED TRANSFER PUMP FLOW TO 56GPM

# 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>32</u>	PSI
DNAPL pump pressure (departure)	<u>40</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</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>2.8</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	<u>Poor</u>
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	<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>5.4</u>	GPM
Totalizer reading (cumulative volume).	<u>435157</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>26/26</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 1/2</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 1/2</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>1/2</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>	<u>No</u>
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>3309</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.		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>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>33</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</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>—</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: DNAPL PUMP DISCHARGE CHECK VALVE WAS STUCK, ADJUSTED PRESSURE + FLOW SETTINGS TO FREE UP, STARTED PUMPING, READJUSTED SETTINGS

Technician: ART KOSKE

Date: 5-11-06

# 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)	40	PSI
DNAPL pump pressure (departure)	40	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	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?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.	24 1/2	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.	3	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	14	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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	<input checked="" type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> 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.	5.8	GPM
Totalizer reading (cumulative volume).	439579	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	28/10	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	7 1/2	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Secondary carbon drum integrity.</u>		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	2	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Polishing carbon drum integrity.</u>		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> 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
<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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	3345	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> 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		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compliance event?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
DNAPL/water to oil/water separator.	85	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: DNAPL DRUM FULL

Technician: ART KOSKE

Date: 5-17-06

# 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)	40	PSI
DNAPL pump pressure (departure)	40	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
<b>DNAPL Drum</b>		
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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
<b>DNAPL Pump and Piping</b>		
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.	24 1/2	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.	2	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
<b>LNAPL Pump and Piping</b>		
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.	14	Feet
<b>Oil/Water Separator</b>		
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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	<input checked="" type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<b>Transfer Pump and Piping</b>		
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.	4.8	GPM
Totalizer reading (cumulative volume).	445601	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	10/10	PSI
<b>Carbon Treatment Drums</b>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	6	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	1.5	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<b>Discharge Piping</b>		
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		
<b>Building and Site</b>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> 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
<b>Electrical and Heating</b>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<b>Access Vaults</b>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
<b>Air Compressor</b>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	3444	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		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	No
Compliance event?	<input checked="" type="radio"/> Yes	No
Time sampled.	12:30	a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
DNAPL/water to oil/water separator.	4.5	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
<b>Product, Carbon, Waste Storage</b>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	—	Drums
PPE/Solids drums	—	Drums
LNAPL drums	—	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: ADJUSTED BUBBLER PRESS. TO 3 PSI

Technician: ART KOSKE

Date: 5-31-06

# 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)	44	PSI
DNAPL pump pressure (departure)	44	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	5	Arrow
Refill control setting (departure)	12	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	24 1/2	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.	3.8	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	2	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14	Feet
<b>Oil/Water Separator</b>		
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)		
<b>Transfer Pump and Piping</b>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	5.1	GPM
Totalizer reading (cumulative volume).	44832	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	10	PSI
<b>Carbon Treatment Drums</b>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	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.	2	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.	1	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
<b>Access Vaults</b>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<b>Air Compressor</b>		
Compressor operational?	Yes	No
Compressor hours.	3510	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		
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	0.1	Gallons
DNAPL/water to disposal drum.	1	Gallons
DNAPL/water to oil/water separator.	1	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	0.1	Gallons
<b>Product, Carbon, Waste Storage</b>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: RESTARTED SYSTEM

Technician: ART KOSKE

Date: 10-16-06

# 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)	40	PSI
DNAPL pump pressure (departure)	40	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.	24 1/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	30	PSI
Bubbler tube operating pressure.	2.4	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.	14	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)

Technician: ART KOSKE

Date: 6-23-06

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.	5.5	GPM
Totalizer reading (cumulative volume).	450079	Gallons
Water filters changed?	(Yes)	(No)
Filter unit pressure (arrival/departure)	16/10	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.	1.5	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.	1	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.	3370	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.	125	Gallons
DNAPL/water to disposal drum.	1	Gallons
DNAPL/water to oil/water separator.	1	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	(Yes)	No
Drums palletized?	(Yes)	No

Notes:



# 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>42</u>	PSI
DNAPL pump pressure (departure)	<u>45</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	No
DNAPL top of pump depth.	<u>24 1/2</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>2.8</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	<u>Poor</u>
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	<u>No</u>

Technician: AK

Date: 6-29-06

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>5.3</u>	GPM
Totalizer reading (cumulative volume).	<u>453971</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>10</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</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>2</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>1</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>	<u>No</u>
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>3617</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>	No
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>11:30</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>2</u>	Gallons
DNAPL/water to disposal drum.	<u>1</u>	Gallons
DNAPL/water to oil/water separator.	<u>1</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>125</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>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: RECORD SYSTEM READINGS, SAMPLE INFLUENT/ EFFLUENT, CLEANED DNAPL PUMP, PUMPED DNAPL OUT OF WELL, RESET PUMP SETTINGS, RECORDED WATER LEVEL READINGS

# 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>4.5</u>	PSI
DNAPL pump pressure (departure)	<u>4.5</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>2.5</u>	PSI
LNAPL pump pressure (departure)	<u>2.5</u>	PSI
Bubbler tube operating pressure.	<u>3</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14'</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?	<u>Yes</u>	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	<u>Poor</u>
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>

Technician: ART KOSKE

Date: 7-7-06

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>5.1</u>	GPM
Totalizer reading (cumulative volume).	<u>4562.25</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>10</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>5 1/2</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>2</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>1</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>3659</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.		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>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>33</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>25</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>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:  
CLEANED SUMP VAULT WITH  
BLEACH, FIXED GASKET ON  
OIL WATER SEPARATOR

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>42</u>	PSI
DNAPL pump pressure (departure)	<u>42</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>←</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</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>3.0</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
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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: ART KOSKE

Date: 7-14-06

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>5.32</u>	GPM
Totalizer reading (cumulative volume).	<u>463573</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>10/10</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 1/2</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>2</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>1</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>	<u>No</u>
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>3725</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.		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>0.125</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>5.3</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>0.25</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>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: INCREASED REFILL TIME FOR DNAPL PUMP

# 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)	42	PSI
DNAPL pump pressure (departure)	42	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
 <i>DNAPL Drum</i>		
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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
 <i>DNAPL Pump and Piping</i>		
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.	24 1/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	33	PSI
LNAPL pump pressure (departure)	33	PSI
Bubbler tube operating pressure.	2.8	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
 <i>LNAPL Pump and Piping</i>		
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.	14	Feet
 <i>Oil/Water Separator</i>		
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?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
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.	5.3	GPM
Totalizer reading (cumulative volume).	466 298	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	10	PSI
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	6	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	142	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	<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
 <i>Electrical and Heating</i>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Air Compressor</i>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	3763	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		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compliance event?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	25	Gallons
DNAPL/water to disposal drum.	11	Gallons
DNAPL/water to oil/water separator.	11	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes:

Technician: AET KOSKE

Date: 7-19-06

# 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>50</u>	PSI
DNAPL pump pressure (departure)	<u>50</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</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>3</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	<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>5.0</u>	GPM
Totalizer reading (cumulative volume).	<u>46883</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>10/10</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>5 1/2</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>2</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>1</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>3841</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.		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>—</u>	Gallons
DNAPL/water to disposal drum.	<u>5</u>	Gallons
DNAPL/water to oil/water separator.	<u>72</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>025</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>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: DNAPL DRUM FULL

Technician: ARTHUR D KOSKE

Date: 7-27-06

# 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)	48	PSI
DNAPL pump pressure (departure)	48	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↗	Arrow
 <i>DNAPL Drum</i>		
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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
 <i>DNAPL Pump and Piping</i>		
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.	24 1/2	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.	3	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
 <i>LNAPL Pump and Piping</i>		
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.	14	Feet
 <i>Oil/Water Separator</i>		
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?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Transfer pump flow rate.	5.06	GPM
Totalizer reading (cumulative volume).	468987	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	15	PSI
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	10	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Secondary carbon drum integrity.</i>		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	2	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Polishing carbon drum integrity.</i>		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	<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
 <i>Electrical and Heating</i>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Air Compressor</i>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	3867	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		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	No
Compliance event?	<input checked="" type="radio"/> Yes	No
Time sampled.	9:00	a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	4	Gallons
DNAPL/water to oil/water separator.	1	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: CLEANED FLOW METER

Technician: ART KOSKE

Date: 7-31-06

# 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>50</u>	PSI
DNAPL pump pressure (departure)	<u>50</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
 <u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
 <u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</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>3-4</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
 <u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	<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>5.3</u>	GPM
Totalizer reading (cumulative volume).	<u>484000</u>	Gallons
Water filters changed?	<u>Yes</u>	<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?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>7 1/2</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>2</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>1/2</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>	<u>No</u>
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>3963</u>	Hours
Oil level checked?	<u>Yes</u>	<u>No</u>
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.		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>1</u>	Gallons
DNAPL/water to disposal drum.	<u>2</u>	Gallons
DNAPL/water to oil/water separator.	<u>1</u>	Gallons
 <u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</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>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: REPLACED LEAKING AIR  
1 WATER SEP.

Technician: C. H. D. H.

Date: 8-10-06

# 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)	45	PSI
DNAPL pump pressure (departure)	45	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
 <i>DNAPL Drum</i>		
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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
 <i>DNAPL Pump and Piping</i>		
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.	24'12"	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
 <i>LNAPL Pump and Piping</i>		
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.	14	Feet
 <i>Oil/Water Separator</i>		
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?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	<input checked="" type="radio"/> Yes	No
Pump integrity.	<input checked="" type="radio"/> Good	Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Transfer pump flow rate.	4.9	GPM
Totalizer reading (cumulative volume).	485260	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit pressure (arrival/departure)	12	PSI
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	7 1/2	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Secondary carbon drum integrity.</i>		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	2	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Polishing carbon drum integrity.</i>		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1 1/2	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	No
 <i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	<input checked="" type="radio"/> Good	Poor
Shed ventilation acceptable?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> 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
 <i>Electrical and Heating</i>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Air Compressor</i>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	4062	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		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compliance event?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
DNAPL/water to oil/water separator.	1	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: CLEANED FLOW METER

Technician: ART KOSKE

Date: 8-23-06



# 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>50</u>	PSI
DNAPL pump pressure (departure)	<u>50</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>3</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↗</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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>	No
Separator cleaned?	<u>Yes</u>	<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>5.3</u>	GPM
Totalizer reading (cumulative volume).	<u>48980</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>10</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>4 1/2</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>2</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>1 1/2</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>4088</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>	No
Primary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Secondary carbon effluent sampled?	<u>Yes</u>	No
Compliance event?	<u>Yes</u>	No
Time sampled.	<u>9:00</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>1</u>	Gallons
DNAPL/water to disposal drum.	<u>3</u>	Gallons
DNAPL/water to oil/water separator.	<u>8</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1/2</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician: ART KOSKE

Date: 8-30-06

# 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>52</u>	PSI
DNAPL pump pressure (departure)	<u>52</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
 <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.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
 <i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>3.4</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
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	<u>No</u>

Technician: ART KOSKI

Date: 9-11-06

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>5.4</u>	GPM
Totalizer reading (cumulative volume).	<u>506,216.8</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>12/12</u>	PSI
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>6 1/2</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>
 <i>Secondary carbon drum integrity.</i>		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	<u>Yes</u>	<u>No</u>
Secondary carbon removed for disposal?	<u>1 1/2</u>	PSI
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
 <i>Polishing carbon drum integrity.</i>		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	<u>Yes</u>	<u>No</u>
Polishing carbon removed for disposal?	<u>1</u>	PSI
New carbon placed in primary drum?	<u>Yes</u>	<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?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<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?	<u>Yes</u>	No
 <i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>4133</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.		a.m./p.m.
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>3</u>	Gallons
DNAPL/water to oil/water separator.	<u>30</u>	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</u>	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

# 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>53</u>	PSI
DNAPL pump pressure (departure)	<u>53</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>12</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?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>38</u>	PSI
LNAPL pump pressure (departure)	<u>38</u>	PSI
Bubbler tube operating pressure.	<u>3</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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)		
<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>4.6</u>	GPM
Totalizer reading (cumulative volume).	<u>527275</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>16/16</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>11 1/2</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 1/2</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>1</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>	<u>No</u>
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>4183</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
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.		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>1</u>	Gallons
DNAPL/water to disposal drum.	<u>2</u>	Gallons
DNAPL/water to oil/water separator.	<u>3</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>125</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PIPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

Technician: ART KOSKIC

Date: 9-21-06 / 9-25-06

# 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>52</u>	PSI
DNAPL pump pressure (departure)	<u>52</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
 <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.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
 <i>DNAPL Pump and Piping</i>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>3.2</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
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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>	No
Separator cleaned?	<u>Yes</u>	<u>No</u>

Technician: ART KOSKE  
Date: 9-28-06

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>3.9</u>	GPM
Totalizer reading (cumulative volume).	<u>53524</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>16</u>	PSI
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>9 1/2</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 1/2</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>1</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>
 <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?	<u>Yes</u>	<u>No</u>
Spill evidence?	<u>Yes</u>	<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?	<u>Yes</u>	<u>No</u>
 <i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>4202</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>	No
Primary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Secondary carbon effluent sampled?	<u>Yes</u>	No
Compliance event?	<u>Yes</u>	No
Time sampled.	<u>9:30</u>	a.m./p.m.
Product sampled?	<u>Yes</u>	<u>No</u>

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

Notes:

## 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>46</u>	PSI
DNAPL pump pressure (departure)	<u>46</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>5</u>	Arrow
Refill control setting (departure)	<u>2</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?	<u>Yes</u>	No
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	No
DNAPL top of pump depth.	<u>24 1/2</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>3.4</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	No
LNAPL top of pump depth.	<u>14</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?	<u>Yes</u>	No
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	No

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>3.4</u>	GPM
Totalizer reading (cumulative volume).	<u>586956</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>36 / 15</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.		PSI
Primary carbon removed for disposal?	<u>Yes</u>	No
Secondary carbon drum rotated to primary?	<u>Yes</u>	No
New carbon placed in primary drum?	<u>Yes</u>	No
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	No
Secondary carbon drum pressure.	<u>4</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	No
Polishing drum rotated to secondary?	<u>Yes</u>	No
New carbon placed in secondary drum?	<u>Yes</u>	No
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	No
Polishing carbon drum pressure.	<u>1/2</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	No
New carbon placed in primary drum?	<u>Yes</u>	No
<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>	No
Spill evidence?	<u>Yes</u>	No
<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>	No
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>4287</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>10</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>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>3</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: PRIMARY CARBON DRUM LEAKING  
TOOK OFF LINE, ORDERED NEW  
DRUM. BACK FLUSHED SECONDARY  
CARBON DRUM. ADJUSTED FLOW  
TO 4.9 GPM, HAD TO SHUT  
SYSTEM DOWN DUE TO ~~SEVERE~~  
BIOFOULING PROBLEMS

Technician: ART KOSKE

Date: 10-20-06

## 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)	52	PSI
DNAPL pump pressure (departure)	52	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	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?	<input checked="" type="radio"/> Yes	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	No
DNAPL top of pump depth.	24 1/2	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	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	No
LNAPL top of pump depth.	14	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?	<input checked="" type="radio"/> Yes	No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	No
Separator cleaned?	Yes	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.	5.1	GPM
Totalizer reading (cumulative volume).	583474	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	40/10	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		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.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Secondary carbon drum pressure.	4 1/2	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.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1/2	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	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?	<input checked="" type="radio"/> Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	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	No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	4310	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	<input checked="" type="radio"/> Yes	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?	<input checked="" type="radio"/> Yes	No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	<input checked="" type="radio"/> Yes	No
Time sampled.	10:35	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.	7	Gallons
DNAPL/water to oil/water separator.	73	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	1	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes:

Technician: ART KOSKE

Date: 10-30-06

# 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>52</u>	PSI
DNAPL pump pressure (departure)	<u>52</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24.5</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>38</u>	PSI
LNAPL pump pressure (departure)	<u>38</u>	PSI
Bubbler tube operating pressure.	<u>2.8</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</u>	Feet
<b>Oil/Water Separator</b>		
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>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	<u>No</u>

LNAPL/Groundwater System - (Continued)		
<b>Transfer Pump and Piping</b>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	<u>No</u>
Transfer pump flow rate.	<u>3.6</u>	GPM
Totalizer reading (cumulative volume).	<u>585700</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>24/10</u>	PSI
<b>Carbon Treatment Drums OFF LINE</b>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.		PSI
Primary carbon removed for disposal?	<u>Yes</u>	No
Secondary carbon drum rotated to primary?	<u>Yes</u>	No
New carbon placed in primary drum?	<u>Yes</u>	No
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>3/12</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>1/2</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>
<b>Discharge Piping</b>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<b>Access Vaults</b>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	<u>No</u>
<b>Air Compressor</b>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>4356</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.		a.m./p.m.
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>7</u>	Gallons
DNAPL/water to oil/water separator.	<u>10</u>	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</u>	Gallons
<b>Product, Carbon, Waste Storage</b>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>3</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: ADJUSTED FLOW TO 56GPM,  
CLEANED FLOW METER

Technician: C. D. D.

Date: 11-9-06

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)	54	PSI
DNAPL pump pressure (departure)	50	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	←	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	24.5	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	40	PSI
LNAPL pump pressure (departure)	40	PSI
Bubbler tube operating pressure.	3	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14	Feet
<b>Oil/Water Separator</b>		
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)		
<b>Transfer Pump and Piping</b>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	1.5	GPM
Totalizer reading (cumulative volume).	605144	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	35/12	PSI
<b>Carbon Treatment Drums OFF LINE</b>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		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.	4.5	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.	0.5	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon placed in primary drum?	Yes	No
<b>Discharge Piping</b>		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
<b>Access Faults</b>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<b>Air Compressor</b>		
Compressor operational?	Yes	No
Compressor hours.	4382	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		
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	4	Gallons
DNAPL/water to oil/water separator.	80	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
<b>Product, Carbon, Waste Storage</b>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: DNAPL DRUM FULL

Technician: ART KOSKE

Date: 11-22-06



# 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>42</u>	PSI
DNAPL pump pressure (departure)	<u>42</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>2</u>	Arrow
Refill control setting (departure)	<u>2</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?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</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>2.5</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	<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>4.4</u>	GPM
Totalizer reading (cumulative volume).	<u>612337</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>4</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum rotated to primary?	<u>Yes</u>	No
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>3 1/2</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	No
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>1 1/2</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>4410</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>	No
Primary carbon effluent sampled?	<u>Yes</u>	<u>No</u>
Secondary carbon effluent sampled?	<u>Yes</u>	No
Compliance event?	<u>Yes</u>	No
Time sampled.	<u>9:30</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>—</u>	Gallons
DNAPL/water to disposal drum.	<u>5</u>	Gallons
DNAPL/water to oil/water separator.	<u>3</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>3</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: INSTALLED NEW POLISHING DRUM

Technician: ART KOSKE

Date: 11-29-06

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>44</u>	PSI
DNAPL pump pressure (departure)	<u>44</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>←</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>24 1/2</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>3</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	<u>No</u>

Technician: ART KOSKIE

Date: 12-4-06

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>4.6</u>	GPM
Totalizer reading (cumulative volume).	<u>620523</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>40 / 16</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>9</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>6 1/2</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>1 1/2</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>4428</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.		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>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>—</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>3</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes:

# 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>30</u>	PSI
DNAPL pump pressure (departure)	<u>50</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>←</u>	Arrow
<b>DNAPL Drum</b>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum/container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	No
Decant valve integrity.	<u>Good</u>	Poor
<b>DNAPL Pump and Piping</b>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	No
DNAPL top of pump depth.	<u>24 1/2</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>3.6</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<b>LNAPL Pump and Piping</b>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	No
LNAPL top of pump depth.	<u>14</u>	Feet
<b>Oil/Water Separator</b>		
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>	No
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	<u>Yes</u>	No
Separator needs cleaning?	<u>Yes</u>	No
Separator cleaned?	<u>Yes</u>	No

LNAPL/Groundwater System - (Continued)		
<b>Transfer Pump and Piping</b>		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>4.3</u>	GPM
Totalizer reading (cumulative volume).	<u>633978</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit pressure (arrival/departure)	<u>20/20</u>	PSI
<b>Carbon Treatment Drums</b>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>6</u>	PSI
Primary carbon removed for disposal?	<u>Yes</u>	No
Secondary carbon drum rotated to primary?	<u>Yes</u>	No
New carbon placed in primary drum?	<u>Yes</u>	No
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	No
Secondary carbon drum pressure.	<u>3.5</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	No
Polishing drum rotated to secondary?	<u>Yes</u>	No
New carbon placed in secondary drum?	<u>Yes</u>	No
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	No
Polishing carbon drum pressure.	<u>.5</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	No
New carbon placed in primary drum?	<u>Yes</u>	No
<b>Discharge Piping</b>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<b>Access Faults</b>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	No
<b>Air Compressor</b>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>4451</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
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.		a.m./p.m.
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
<b>Recovery from DNAPL Drum</b>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>5</u>	Gallons
DNAPL/water to oil/water separator.	<u>80</u>	Gallons
<b>Recovery from Oil/Water Separator</b>		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
<b>Product, Carbon, Waste Storage</b>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>3</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: REDUCED BUBBLER PRESSURE TO 3 PSI

Technician: ART KOSKE

Date: 12-15-06

# 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)	50	PSI
DNAPL pump pressure (departure)	50	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	←	Arrow
 <i>DNAPL Drum</i>		
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?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
 <i>DNAPL Pump and Piping</i>		
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.	24 1/2	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.	2.3	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
 <i>LNAPL Pump and Piping</i>		
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.	14	Feet
 <i>Oil/Water Separator</i>		
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?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Technician: ART KOSKE

Date: 12-22-06

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
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.	4.9	GPM
Totalizer reading (cumulative volume).	639216	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit pressure (arrival/departure)	40/110	PSI
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	8 1/2	PSI
Primary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	4	PSI
Secondary carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in secondary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	12	PSI
Polishing carbon removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon placed in primary drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Discharge Piping</i>		
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		
<i>Building and Site</i>		
Remediation shed integrity.	<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
 <i>Electrical and Heating</i>		
Electric controls operational	<input checked="" type="radio"/> Yes	No
Heater operational	<input checked="" type="radio"/> Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
 <i>Air Compressor</i>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	4493	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		
Primary carbon influent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon effluent sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compliance event?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Time sampled.		a.m./p.m.
Product sampled?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
DNAPL/water to oil/water separator.	8	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	1	Gallons
DNAPL/water to disposal drum.	1	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	3	Drums
PPE/Solids drums	1	Drums
LNAPL drums	1	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes:

# 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>54</u>	PSI
DNAPL pump pressure (departure)	<u>54</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>DNAPL Drum</u>		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
<u>DNAPL Pump and Piping</u>		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>27 1/2</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>40</u>	PSI
LNAPL pump pressure (departure)	<u>40</u>	PSI
Bubbler tube operating pressure.	<u>32</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<u>LNAPL Pump and Piping</u>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14</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?	<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: ART KOSKI

Date: 12-29-06

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>4.5</u>	GPM
Totalizer reading (cumulative volume).	<u>647919</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>20/20</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>7 1/2</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>3</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>1 1/2</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>4501</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Primary carbon influent sampled?	<u>Yes</u>	No
Primary carbon effluent sampled?	<u>Yes</u>	No
Secondary carbon effluent sampled?	<u>Yes</u>	No
Compliance event?	<u>Yes</u>	No
Time sampled.	<u>9:00</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>1</u>	Gallons
DNAPL/water to disposal drum.	<u>2</u>	Gallons
DNAPL/water to oil/water separator.	<u>1</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>3</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: