

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

**2012 SITE VISIT CHECKLISTS
FOR THE GROUNDWATER COLLECTION
& TREATMENT SYSTEM**

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

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

Technician: P. O'Neil

Date: 6/25/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<input checked="" type="checkbox"/> Yes	No
Pump integrity.	<input checked="" type="checkbox"/> Good	Poor
Flow meter operational?	<input checked="" type="checkbox"/> Yes	No
Transfer pump flow rate.	<u>1.74</u>	GPM
Totalizer reading (cumulative volume).	<u>117764</u>	Gallons
Water filters changed?	<input checked="" type="checkbox"/> Yes	No
Filter unit 1 pressure @ Arrival (In/Out)		
Filter unit 2 pressure @ Arrival (In/Out)		
Filter unit 1 pressure @ Departure (In/Out)	<u>6</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>8</u>	<u>7</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="checkbox"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum integrity.	<input checked="" type="checkbox"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon rotated to primary?	Yes	<input checked="" type="checkbox"/> No
Polishing carbon drum integrity.	<input checked="" type="checkbox"/> Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<input checked="" type="checkbox"/> No
New carbon polishing drum?	Yes	<input checked="" type="checkbox"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="checkbox"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="checkbox"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="checkbox"/> Yes	No
Pipe integrity at creek.	<input checked="" type="checkbox"/> Good	Poor
Pipe at creek clear?	<input checked="" type="checkbox"/> Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="checkbox"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="checkbox"/> No
Air Compressor		
Compressor operational?	Yes	<input checked="" type="checkbox"/> No
Compressor hours.		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		
Sampling Performed?	Yes	<input checked="" type="checkbox"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	<u>No</u>
LNAPL pump pressure (arrival)	<u>—</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>7</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>→</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: B Miller
 Date: 1-13-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	<u>1.61</u>	GPM
Totalizer reading (cumulative volume).	<u>123680</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>33</u>	<u>4.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>6</u>	<u>4.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>33</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>9</u>	<u>7</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary Carbon Drums		
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>2</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing Carbon Drums		
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10576.7</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:
 Repair Air Leaks and Restart
 DNAPL & LNAPL Systems

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>7</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>—</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>10</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>7</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>—</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: B Miller
 Date: 1-20-12

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	<u>1.52</u>	GPM
Totalizer reading (cumulative volume).	<u>129947</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>34</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>25</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>34</u>	<u>7</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>25</u>	<u>7</u>
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
<u>Secondary carbon drum integrity.</u>		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>2</u>	PSI
<u>Polishing carbon drum integrity.</u>		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing drum rotated to secondary?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10386.9</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>6</u>	Gallons
DNAPL/water to disposal drum.	<u>8</u>	Gallons
DNAPL/water to oil/water separator.	<u>0</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>8</u>	Gallons
DNAPL/water to disposal drum.	<u>6</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>1/1</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?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	—	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	No
Discharge control setting (departure)	—	Arrow
Refill control setting (departure)	—	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↗	Arrow
Refill control setting (departure)	↘	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Red warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	Good	<input checked="" type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

Technician: T. Palmer
 Date: 1-26-12

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.	1.80	GPM
Totalizer reading (cumulative volume).	131611	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	30	8
Filter unit 2 pressure @ Arrival (In/Out)	20	6
Filter unit 1 pressure @ Departure (In/Out)	26	6.5
Filter unit 2 pressure @ Departure (In/Out)	24	6.5
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="radio"/> No
<u>Secondary Carbon Drums</u>		
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum pressure.	2	PSI
Secondary carbon rotated to primary?	Yes	<input checked="" type="radio"/> No
<u>Polishing Carbon Drums</u>		
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon polishing drum?	Yes	<input checked="" type="radio"/> No
<u>Discharge Piping</u>		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

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

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
<u>Air Compressor</u>		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10395.7	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes: DNAPL not pumping. Turn off and schedule cleaning.

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

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

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
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.	1.83	GPM
Totalizer reading (cumulative volume).	133150	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	32	7
Filter unit 2 pressure @ Arrival (In/Out)	3	7.5
Filter unit 1 pressure @ Departure (In/Out)	33	7
Filter unit 2 pressure @ Departure (In/Out)	2	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	Yes	<input checked="" type="radio"/> No
Secondary carbon rotated to primary?		PSI
Yes		<input checked="" type="radio"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	Yes	<input checked="" type="radio"/> No
Polishing drum rotated to secondary?		PSI
Yes		<input checked="" type="radio"/> No
New carbon polishing drum?		
Yes		<input checked="" type="radio"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

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

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

Sampling		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:

Technician: T. Palmer
 Date: 2-1-12

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System OFF		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: Brent Miller

Date: 2-8-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.75	GPM
Totalizer reading (cumulative volume).	141064	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	30	8
Filter unit 2 pressure @ Arrival (In/Out)	9	8
Filter unit 1 pressure @ Departure (In/Out)	8	8.5
Filter unit 2 pressure @ Departure (In/Out)	11	8
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	5	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	2	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	OFF	Yes
Compressor hours.		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		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:
 Changed #1 Filters
 Removed carbon #1 (leak)
 Running on #2 & #3

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	OFF	Yes No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: Brent Miller
 Date: 2-16-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.05	GPM
Totalizer reading (cumulative volume).	143116	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	16	7
Filter unit 2 pressure @ Arrival (In/Out)	12	6.5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	Yes	No
Secondary carbon rotated to primary?	3	PSI
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	2	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	OFF	Yes No
Compressor hours.	104023	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		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1400	
Pre-Carbon Sample Time	1345	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	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?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

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

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.90	GPM
Totalizer reading (cumulative volume).	197768	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	38	3
Filter unit 2 pressure @ Arrival (In/Out)	30	3
Filter unit 1 pressure @ Departure (In/Out)	16	7.5
Filter unit 2 pressure @ Departure (In/Out)	30	7
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	No
<u>Secondary Carbon Drums</u>		
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
<u>Polishing Carbon Drums</u>		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	2	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing 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.	104026	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		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	9	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes:

Technician: B Miller
Date: 2-21-12

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	OFF	PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: B. Miller
 Date: 2-27-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.37	GPM
Totalizer reading (cumulative volume).	153578	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	46	PSI
Filter unit 2 pressure @ Arrival (In/Out)	40	PSI
Filter unit 1 pressure @ Departure (In/Out)	16	PSI
Filter unit 2 pressure @ Departure (In/Out)	10	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	2	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	11482.6	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	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?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: B Miller
Date: 3-6-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.88	GPM
Totalizer reading (cumulative volume).	161926	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	30	6.5
Filter unit 2 pressure @ Arrival (In/Out)	28	6
Filter unit 1 pressure @ Departure (In/Out)	35	7
Filter unit 2 pressure @ Departure (In/Out)	28	7
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	Yes	No
Secondary carbon rotated to primary?	3	PSI
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Good	Poor
Polishing carbon drum pressure.	Yes	No
Polishing drum rotated to secondary?	2	PSI
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	104027	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		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	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?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

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

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.31	GPM
Totalizer reading (cumulative volume).	164,231	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)		
Filter unit 2 pressure @ Arrival (In /Out)		
Filter unit 1 pressure @ Departure (In/Out)	15	7.5
Filter unit 2 pressure @ Departure (In/Out)	10	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	2	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	104027	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		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:

Technician: B Miller
Date: 3-13-12

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	OFF	PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: B. Miller
 Date: 3-23-12

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.32	GPM
Totalizer reading (cumulative volume).	171,350	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	2.5
Filter unit 2 pressure @ Arrival (In /Out)	26	2.5
Filter unit 1 pressure @ Departure (In/Out)	25	7.5
Filter unit 2 pressure @ Departure (In/Out)	23	7.5
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	No
<u>Secondary Carbon Drums</u>		
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
<u>Polishing Carbon Drums</u>		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing 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.	16402.7	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
<u>Sampling</u>		
Sampling Performed?	Yes	No
Post Carbon Sample Time	0930	
Pre-Carbon Sample Time	0935	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
<u>Recovery and Disposal</u>		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: monthly Sample

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: 3-30-12
Date: B Miller

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.90	GPM
Totalizer reading (cumulative volume).	175886	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	35	1
Filter unit 2 pressure @ Arrival (In/Out)	33	1
Filter unit 1 pressure @ Departure (In/Out)	16	8.5
Filter unit 2 pressure @ Departure (In/Out)	16	8.5
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	2	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing 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.	10402.8	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time.		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1/0	Drums
LNAPL drums	1/0	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?	Yes	No
DNAPL pump pressure (arrival)	OFF	PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	OFF	PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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?	4-4-12	No

Technician: Brent Miller

Date: 4-5-12

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.40	GPM
Totalizer reading (cumulative volume).	18744	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)		
Filter unit 2 pressure @ Arrival (In/Out)		
Filter unit 1 pressure @ Departure (In/Out)	16	8
Filter unit 2 pressure @ Departure (In/Out)	10	8
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6.0	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	Yes	No
Secondary carbon rotated to primary?	3.0	PSI
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Good	Poor
Polishing carbon drum pressure.	Yes	No
Polishing drum rotated to secondary?	1.0	PSI
New carbon polishing 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.	10402.8	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
<u>Sampling</u>		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
<u>Recovery and Disposal</u>		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	4	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: Clean Gun Club Snaps,
Vault, OWS 4-4-12

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
 <i>Oil/Water Separator</i>		
Water high level shut-off operational?	Yes	No
Red 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: BS Miller

Date: 4-12-12

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	4.02	GPM
Totalizer reading (cumulative volume).	185382	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	14	6
Filter unit 2 pressure @ Arrival (In/Out)	9	6
Filter unit 1 pressure @ Departure (In/Out)	16	8
Filter unit 2 pressure @ Departure (In/Out)	10	8
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
 <i>Secondary Carbon Drums</i>		
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
 <i>Polishing Carbon Drums</i>		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
 <i>Discharge Piping</i>		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
 <i>Air Compressor</i>		
Compressor operational?	Yes	No
Compressor hours.	10902.9	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		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	4	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	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?	Yes	No
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	16	PSI
LNAPL pump pressure (departure)	16	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↑	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: T. Palmer
Date: 4-20-12

LNAPL/Groundwater System - (Continued)		
<u>Transfer Pump and Piping</u>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.78	GPM
Totalizer reading (cumulative volume).	188746	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	10	8
Filter unit 2 pressure @ Arrival (In/Out)	15	8
Filter unit 1 pressure @ Departure (In/Out)	13	8.5
Filter unit 2 pressure @ Departure (In/Out)	16.5	9
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	0.5	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing 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

- Restart LNAPL System

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.	10402.4	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
<u>Sampling</u>		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
<u>Recovery and Disposal</u>		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
DNAPL/water to oil/water separator.	—	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: - Tubing is on order for DNAPL pump
- Tunnel had down, but left on
- 3 empty drums on hand for waste stream
- Drums picked up today

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	16	PSI
LNAPL pump pressure (departure)	16	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↑	Arrow
<i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<i>Oil/Water Separator</i>		
Water high level shut-off operational?	Yes	No
Red 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: B Miller
 Date: 4-25-12

LNAPL/Groundwater System - (Continued)		
<i>Transfer Pump and Piping</i>		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.39	GPM
Totalizer reading (cumulative volume)	10410.7	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	6
Filter unit 2 pressure @ Arrival (In/Out)	23	6
Filter unit 1 pressure @ Departure (In/Out)	16	8
Filter unit 2 pressure @ Departure (In/Out)	23	8
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
<i>Secondary Carbon Drums</i>		
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	5	PSI
Secondary carbon rotated to primary?	Yes	No
<i>Polishing Carbon Drums</i>		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
<i>Discharge Piping</i>		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
<i>Miscellaneous</i>		
<i>Building and Site</i>		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
<i>Electrical and Heating</i>		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<i>Air Compressor</i>		
Compressor operational?	Yes	No
Compressor hours.	10410.7	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
<i>Sampling</i>		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1430	
Pre-Carbon Sample Time	1440	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
<i>Recovery and Disposal</i>		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
DNAPL/water to oil/water separator.		Gallons
<i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
<i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes:

monthly Samples

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	14	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	OFF	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1/2	Arrow
Refill control setting (departure)	3/4	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: B Miller
 Date: 5-2-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.62	GPM
Totalizer reading (cumulative volume).	203556	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	18	9
Filter unit 2 pressure @ Arrival (In /Out)	22	8.5
Filter unit 1 pressure @ Departure (In/Out)	18	8.5
Filter unit 2 pressure @ Departure (In/Out)	20	8
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	Yes	No
Secondary carbon rotated to primary?	3	PSI
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	2	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10477.7	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	N/A	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?	Yes	No
DNAPL pump pressure (arrival)	OFF	PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	OFF	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	2	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: B Miller
 Date: 5-11-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.38	GPM
Totalizer reading (cumulative volume).	877147	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	16	9.5
Filter unit 2 pressure @ Arrival (In/Out)	21	9.5
Filter unit 1 pressure @ Departure (In/Out)	22	7.5
Filter unit 2 pressure @ Departure (In/Out)	18	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	5	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Good	Poor
Polishing carbon drum pressure.	Yes	No
Polishing drum rotated to secondary?	2	PSI
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10420.9	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		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes:

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: B Miller
 Date: 5-17-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.56	GPM
Totalizer reading (cumulative volume).	2252.3	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	28	8.5
Filter unit 2 pressure @ Arrival (In/Out)	20	8.5
Filter unit 1 pressure @ Departure (In/Out)	28	8.5
Filter unit 2 pressure @ Departure (In/Out)	20	8.5
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	Yes	No
Secondary carbon rotated to primary?	3	PSI
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Good	Poor
Polishing carbon drum pressure.	Yes	No
Polishing drum rotated to secondary?	2	PSI
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	1423.2	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1020	
Pre-Carbon Sample Time	1030	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	6	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	N/A	No
Drums palletized?	Yes	No

Notes:

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System <i>Restart</i>		
Operational upon arrival?	Yes	<u>No</u>
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↘</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	No
DNAPL top of pump depth.	<u>13.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>10</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↘</u>	Arrow
Refill control setting (departure)	<u>↘</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	No
LNAPL top of pump depth.	<u>14.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: BMiller
Date: 5-22-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.29</u>	GPM
Totalizer reading (cumulative volume).	<u>226493</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>26</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>20</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>2</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No
Miscellaneous		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	<u>Yes</u>	No
Repairs/work needed?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
Electrical and Heating		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>OFF</u>	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>104250</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No
Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>0</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>0</u>	Drums
Spent carbon drums	<u>0</u>	Drums
PPE/Solids drums	<u>0</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: Reset DNAPL Pump
Clean NAPL Pump

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>18</u>	PSI
DNAPL pump pressure (departure)	<u>18</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>9</u>	Arrow
Refill control setting (departure)	<u>11</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</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>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>7</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>14.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: B Miller

Date: 5-30-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>2.30</u>	GPM
Totalizer reading (cumulative volume).	<u>227835</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>29</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>20</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>29</u>	<u>7.5</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>31</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	<u>Poor</u>
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.	<u>1</u>	PSI
Primary drum removed for disposal?	<u>Yes</u>	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon rotated to primary?	<u>Yes</u>	No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>2</u>	PSI
Polishing drum rotated to secondary?	<u>Yes</u>	No
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10472.9</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

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

Notes: #1 Carbon Removed Due to leak.

Flow on 2 carbons 3.71

#1 carbon 5psi

#2 carbon 3psi

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>18</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>7</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>25</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>19.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: T. Palmer
Date: 6-7-12

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>3.66</u>	GPM
Totalizer reading (cumulative volume).	<u>2360.50</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>30</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>20</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>21</u>	<u>8</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>23</u>	<u>7.5</u>
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>2.5</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	<u>No</u>

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?	Yes	<u>No</u>
Spill evidence?	Yes	<u>No</u>
<u>Electrical and Heating</u>		
Electric controls operational	<u>Yes</u>	No
Heater operational	<u>Yes</u>	No

Miscellaneous - (Continued)		
<u>Access Vaults</u>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
<u>Air Compressor</u>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10520.7</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>0.25</u>	Gallons
DNAPL/water to disposal drum.	<u>0.50</u>	Gallons
DNAPL/water to oil/water separator.	<u>10</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>01</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>0</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: * Drum 3 on order
- LNAPL Bubbler repaired

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	24	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
6/15		
DNAPL Drum		
High level shut off operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Green warning light operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
DNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	24	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
LNAPL top of pump depth.	14.40	Feet

Oil/Water Separator		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Red warning light operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Separator vessel integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
LNAPL in separator?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Separator needs cleaning?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Separator cleaned?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Technician: MR. BOWEN

Date: 6/14/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Pump integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Transfer pump flow rate.	387	GPM
Totalizer reading (cumulative volume).	271,330	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	31	8.5
Filter unit 2 pressure @ Arrival (In/Out)	23	7.5
Filter unit 1 pressure @ Departure (In/Out)	23	8
Filter unit 2 pressure @ Departure (In/Out)	23	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Secondary carbon drum integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Secondary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Polishing carbon drum integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Polishing carbon drum leaks?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Polishing carbon drum pressure.	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
New carbon polishing drum?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
replaced drum/hydrating		
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Compressor hours.	10533.0	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Oil level changed?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Regulator operating?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Air lines performing properly?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Sampling		
Sampling Performed?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	<input checked="" type="radio"/> Monthly	<input type="radio"/> Quarterly
Product sampled?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0.25	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0.25	Gallons
50 9/15		
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Drums palletized?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Notes: * Small leak @ regulator
will change
- Made more keys @ Home depot
- Brought and placed new #3
carbon and hydrated

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)	18	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	(Yes)	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	(Yes)	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	(Yes)	(No)
DNAPL top of pump depth.	23.5'	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	25	PSI
LNAPL pump pressure (departure)	25	PSI
Bubbler tube operating pressure.	8	PSI
Pneumatic settings adjusted?	(Yes)	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	(Yes)	(No)
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red 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: M. Keisch
 Date: 6/21/12

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.	385	GPM
Totalizer reading (cumulative volume).	245746	Gallons
Water filters changed?	(Yes)	(No)
Filter unit 1 pressure @ Arrival (In/Out)	23	7.5
Filter unit 2 pressure @ Arrival (In/Out)	23	7.5
Filter unit 1 pressure @ Departure (In/Out)	23	7.5
Filter unit 2 pressure @ Departure (In/Out)	23	7.5
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	(Yes)	(No)
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	(Yes)	(No)
Secondary carbon drum integrity.	(Good)	Poor
Secondary carbon drum leaks?	(Yes)	(No)
Secondary carbon drum pressure.	2	PSI
Secondary carbon rotated to primary?	(Yes)	(No)
Polishing carbon drum integrity.	(Good)	(Poor)
Polishing carbon drum leaks?	(Yes)	No
Polishing carbon drum pressure.	0	PSI
Polishing drum rotated to secondary?	(Yes)	(No)
New carbon polishing 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.	10536.7	Hours
Oil level checked?	(Yes)	No
Oil level changed?	(Yes)	(No)
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Sampling Performed?	(Yes)	(No)
Post Carbon Sample Time	1050	
Pre-Carbon Sample Time	1045	
Sampling event?	(Monthly)	Quarterly
Product sampled?	(Yes)	(No)

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

Notes: * Bad eff bung seal, attempted to repair with epoxy will put back online next visit
 ** #3 drum contain overflow a little vaced up water and put in separator

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	✓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	2350	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.	8	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	1440	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red 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: Mr. Rensel

Date: 6/28/12

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.	366	GPM
Totalizer reading (cumulative volume).	247325	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	24	8
Filter unit 2 pressure @ Arrival (In /Out)	20	7
Filter unit 1 pressure @ Departure (In/Out)	25	10
Filter unit 2 pressure @ Departure (In/Out)	25	10
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	7	PSI
Primary drum removed for disposal?	Yes	(No)
Secondary carbon drum integrity.	(Good)	Poor
Secondary carbon drum leaks?	Yes	(No)
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	(No)
Polishing carbon drum integrity.	(Good)	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	(No)
New carbon polishing 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.	105925	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		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	-	Gallons
DNAPL/water to oil/water separator.	28	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	1.25	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	-	Drums
Drums labeled?	(Yes)	No
Drums palletized?	(Yes)	No

Notes: * Added vent to comp. room door
- 28 galls from DNAPL drum to Sep. oil water

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	30	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	(Yes)	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red 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: T. Palmer
 Date: 7-5-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	4.05	GPM
Totalizer reading (cumulative volume).	247960	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	17	8.5
Filter unit 2 pressure @ Arrival (In/Out)	23	8.5
Filter unit 1 pressure @ Departure (In/Out)	16	7
Filter unit 2 pressure @ Departure (In/Out)	23	7
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	(No)
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	(Good)	Poor
Secondary carbon drum pressure.	Yes	(No)
Secondary carbon rotated to primary?	23	PSI
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	(Good)	Poor
Polishing carbon drum pressure.	Yes	(No)
Polishing drum rotated to secondary?	0.5	PSI
New carbon polishing drum?	Yes	(No)
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	(Yes)	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	10545.6	Hours
Oil level checked?	(Yes)	No
Oil level changed?	(Yes)	No
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	32	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	—	Gallons
DNAPL/water to disposal drum.	—	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	—	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?	Yes	(No)
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	(Yes)	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	71	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red 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: C. K. Kish

Date: 7/11/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.25	GPM
Totalizer reading (cumulative volume).	248151	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	25	6.5
Filter unit 2 pressure @ Arrival (In/Out)	25	6
Filter unit 1 pressure @ Departure (In/Out)	25	6.5
Filter unit 2 pressure @ Departure (In/Out)	25	6
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	4.5	PSI
Primary drum removed for disposal?	Yes	(No)
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	(Good)	Poor
Secondary carbon drum pressure.	2	PSI
Secondary carbon rotated to primary?	Yes	(No)
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	(Good)	Poor
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	(No)
New carbon polishing drum?	Yes	(No)
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	(Yes)	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	10547.0	Hours
Oil level checked?	(Yes)	No
Oil level changed?	Yes	(No)
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	70	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	6	Drums
Drums labeled?	(Yes)	No
Drums palletized?	(Yes)	No

Notes: * Drum full on arrival
green light on DNAPL pump off

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	(Yes)	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	(Yes)	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	17	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	7	PSI
Pneumatic settings adjusted?	(Yes)	No
Discharge control setting (departure)	↓	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red 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: M. Raison
 Date: 7/17/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	4.17	GPM
Totalizer reading (cumulative volume).	248408	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	17	9
Filter unit 2 pressure @ Arrival (In/Out)	17	9
Filter unit 1 pressure @ Departure (In/Out)	17	9
Filter unit 2 pressure @ Departure (In/Out)	17	9
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	7	PSI
Primary drum removed for disposal?	Yes	(No)
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	(Good)	Poor
Secondary carbon drum pressure.	Yes	(No)
Secondary carbon rotated to primary?	3	PSI
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	(Good)	Poor
Polishing carbon drum pressure.	Yes	(No)
Polishing drum rotated to secondary?	1	PSI
New carbon polishing drum?	Yes	(No)
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	(Yes)	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	10549.4	Hours
Oil level checked?	(Yes)	No
Oil level changed?	Yes	(No)
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	3	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	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?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	→	Arrow
Refill control setting (departure)	→	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	1440	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red 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: M. Renier
 Date: 7/25/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	4.25	GPM
Totalizer reading (cumulative volume).	248582	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	20	9
Filter unit 2 pressure @ Arrival (In/Out)	19	9
Filter unit 1 pressure @ Departure (In/Out)	20	9
Filter unit 2 pressure @ Departure (In/Out)	19	9
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	(No)
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	(Good)	Poor
Secondary carbon drum pressure.	Yes	(No)
Secondary carbon rotated to primary?	4	PSI
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	(Good)	Poor
Polishing carbon drum pressure.	Yes	(No)
Polishing drum rotated to secondary?	1	PSI
New carbon polishing drum?	Yes	(No)
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	(Yes)	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	(Yes)	(No)
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10552.7	Hours
Oil level checked?	Yes	No
Oil level changed?	(Yes)	(No)
Compressor trap operating?	(Yes)	(No)
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Sampling Performed?	(Yes)	No
Post Carbon Sample Time	1110	
Pre-Carbon Sample Time	1100	
Sampling event?	(Monthly)	Quarterly
Product sampled?	Yes	(No)

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	50	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	6	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	(Yes)	No
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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>6</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>→</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	<u>14.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: T. Palmer
 Date: 8-1-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>4.24</u>	GPM
Totalizer reading (cumulative volume).	<u>2487.31</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>19</u>	<u>9.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>18</u>	<u>9</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>21</u>	<u>9</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>20</u>	<u>7.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>0</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10555.5</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>50</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>0</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: - Add bleach to system

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>↓</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14.90</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: T. Palmer
Date: 8-8-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.71</u>	GPM
Totalizer reading (cumulative volume).	<u>248856</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>21</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>17</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>22</u>	<u>7</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>17</u>	<u>6.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	<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 rotated to primary?	<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 drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon polishing drum?	<u>Yes</u>	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10558.4</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	<u>Yes</u>	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>60</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>→</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>14.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: T. Palmer
 Date: 8-16-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.57</u>	GPM
Totalizer reading (cumulative volume).	<u>249340</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>18</u>	<u>6.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>17</u>	<u>6.5</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>20</u>	<u>7</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>18</u>	<u>7</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>3</u>	PSI
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing drum rotated to secondary?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10561.7</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>50</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>14.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: M. V. G. 21
 Date: 8/02

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	<u>3.63</u>	GPM
Totalizer reading (cumulative volume).	<u>247130</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>22</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>16</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>17</u>	<u>7</u>
Filter unit 2 pressure @ Departure	<u>15</u>	<u>6.5</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>2</u>	PSI
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10564.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1200</u>	
Pre-Carbon Sample Time	<u>1220</u>	
Sampling event?	Monthly	<u>Quarterly</u>
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>40</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
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?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	→	Arrow
Refill control setting (departure)	→	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Red warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

Technician: M. Reisch
 Date: 8/29/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
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.	3.29	GPM
Totalizer reading (cumulative volume).	249462	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	15	C.S
Filter unit 2 pressure @ Arrival (In /Out)	15	C.S
Filter unit 1 pressure @ Departure (In/Out)	15	6.5
Filter unit 2 pressure @ Departure	15	7.0
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	4	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	1	PSI
Secondary carbon rotated to primary?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	0	PSI
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon polishing drum?	Yes	<input checked="" type="radio"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10567	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.		Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	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?	<input checked="" type="radio"/> Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.	23.5	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	14.0	Feet
Oil/Water Separator		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Red warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

Technician: Mr. K. A.
Date: 9/5/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
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.	3.9	GPM
Totalizer reading (cumulative volume).	250.710	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	14	8
Filter unit 2 pressure @ Arrival (In/Out)	15	6
Filter unit 1 pressure @ Departure (In/Out)	15	7
Filter unit 2 pressure @ Departure	15	7
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon polishing drum?	Yes	<input checked="" type="radio"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10567.8	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		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	40	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	No
Drums palletized?	<input checked="" type="radio"/> Yes	No

Notes: Fixed Suck Valve @ C-7
add a little oil to compressor

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
 <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?	Yes	<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?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>2350</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>2</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>1440</u>	Feet
 <i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: Mr. RothenDate: 9/11/12

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>388</u>	GPM
Totalizer reading (cumulative volume).	<u>251287</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	PSI
Filter unit 2 pressure @ Arrival (In/Out)	<u>15</u>	PSI
Filter unit 1 pressure @ Departure (In/Out)	<u>17</u>	PSI
Filter unit 2 pressure @ Departure	<u>13</u>	PSI
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
 <i>Secondary Carbon Drums</i>		
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
 <i>Polishing Carbon Drums</i>		
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
 <i>Discharge Piping</i>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
 <i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10572.3</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>40</u>	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: Changed well air head
valve (leaking)

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>→</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>14.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: T. Palmer
 Date: 9.20.12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.33</u>	GPM
Totalizer reading (cumulative volume).	<u>252,000</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>16</u>	7
Filter unit 2 pressure @ Arrival (In /Out)	<u>15</u>	7
Filter unit 1 pressure @ Departure (In/Out)	<u>16</u>	<u>6.5</u>
Filter unit 2 pressure @ Departure	<u>17</u>	<u>6</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary Carbon Drums		
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>2.5</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing Carbon Drums		
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	<u>0.5</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10576.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>730</u>	
Pre-Carbon Sample Time	<u>740</u>	
Sampling event?	<u>Monthly</u>	Quarterly
Product sampled?	Yes	<u>No</u>

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

Notes: Monthly Sampling

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
 <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?	Yes	<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?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.5</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>25</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>→</u>	Arrow
Refill control setting (departure)	<u>↖</u>	Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>14.5</u>	Feet
 <i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: M. Klein
 Date: 9/26/12

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>234</u>	GPM
Totalizer reading (cumulative volume).	<u>253574</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>15</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>15</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>15</u>	<u>7</u>
Filter unit 2 pressure @ Departure	<u>15</u>	<u>7</u>
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
 <i>Secondary carbon drum integrity.</i>		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>3</u>	PSI
 <i>Polishing carbon drum integrity.</i>		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	Yes	<u>No</u>
Polishing drum rotated to secondary?	<u>1</u>	PSI
New carbon polishing drum?	Yes	<u>No</u>
 <i>Discharge Piping</i>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
 <i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10575.8</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>55</u>	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
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?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	→	Arrow
Refill control setting (departure)	→	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red 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: M. J. Kusub
Date: 10/3/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.41	GPM
Totalizer reading (cumulative volume).	25385.2	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	15	7
Filter unit 2 pressure @ Arrival (In/Out)	15	7
Filter unit 1 pressure @ Departure (In/Out)	15	7
Filter unit 2 pressure @ Departure	15	7
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	(No)
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	(Good)	Poor
Secondary carbon drum pressure.	Yes	(No)
Secondary carbon rotated to primary?	2.5	PSI
Polishing carbon drum integrity.	(Good)	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	(No)
New carbon polishing drum?	Yes	(No)
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	10581	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		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	20	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	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?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Green warning light operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
DNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.	2350	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
LNAPL pump cleaned?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	1440	Feet
Oil/Water Separator		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Red warning light operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Separator vessel integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Leaks present?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> 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

Technician: myr
 Date: 10/9/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Pump integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Flow meter operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Transfer pump flow rate.	3.47	GPM
Totalizer reading (cumulative volume).	255203	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	15	7
Filter unit 2 pressure @ Arrival (In/Out)	15	7
Filter unit 1 pressure @ Departure (In/Out)	15	7
Filter unit 2 pressure @ Departure	15	7
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Primary carbon drum leaks?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
New carbon polishing drum?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	<input type="radio"/> Poor
Repairs needed to vaults?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Compressor hours.	10583.8	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Oil level changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Regulator operating?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Air lines performing properly?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Sampling		
Sampling Performed?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	15	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Drums palletized?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Notes: Added chlorine pre-treat to sump and 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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>14.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: Mr. Kersch
 Date: 10/17/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.66</u>	GPM
Totalizer reading (cumulative volume).	<u>256657</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>15</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>14</u>	<u>6.8</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>15</u>	<u>7</u>
Filter unit 2 pressure @ Departure	<u>15</u>	<u>7</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>3</u>	PSI
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10587.6</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>25</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
 <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?	Yes	<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?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
 <i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>14.10</u>	Feet
 <i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	Yes	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: M. Kleiss
Date: 10/22/12

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>3.78</u>	GPM
Totalizer reading (cumulative volume).	<u>258570</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>15</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>15</u>	<u>7</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>15</u>	<u>7</u>
Filter unit 2 pressure @ Departure	<u>15</u>	<u>7</u>
 <i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
 <i>Secondary carbon drum integrity.</i>		
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
 <i>Polishing carbon drum integrity.</i>		
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
 <i>Discharge Piping</i>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
 <i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10589.9</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1400</u>	
Pre-Carbon Sample Time	<u>1410</u>	
Sampling event?	<u>Monthly</u>	Quarterly
Product sampled?	Yes	<u>No</u>

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>150</u>	Gallons
DNAPL/water to oil/water separator.	<u>15</u>	Gallons
 <i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
 <i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	Yes	<u>No</u>

Notes:

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)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="radio"/> Yes	No
Green warning light operational?	<input checked="" type="radio"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
DNAPL top of pump depth.	23.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="radio"/> Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="radio"/> No
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	<input checked="" type="radio"/> Yes	No
Red warning light operational?	<input checked="" type="radio"/> Yes	No
Separator vessel integrity.	<input checked="" type="radio"/> Good	Poor
Leaks present?	Yes	<input checked="" type="radio"/> No
Separator cover and seal integrity.	<input checked="" type="radio"/> Good	Poor
Decant valve integrity.	<input checked="" type="radio"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="radio"/> No
Separator needs cleaning?	Yes	<input checked="" type="radio"/> No
Separator cleaned?	Yes	<input checked="" type="radio"/> No

Technician: T. Pahr
Date: 11-1-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
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.	3.73	GPM
Totalizer reading (cumulative volume).	215172	Gallons
Water filters changed?	Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	16	8
Filter unit 2 pressure @ Arrival (In/Out)	16	7.5
Filter unit 1 pressure @ Departure (In/Out)	16	7.5
Filter unit 2 pressure @ Departure	16.5	7
Carbon Treatment Drums		
Primary carbon drum integrity.	<input checked="" type="radio"/> Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="radio"/> No
Primary carbon drum pressure.	5.5	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="radio"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	<input checked="" type="radio"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="radio"/> Good	Poor
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	<input checked="" type="radio"/> No
New carbon polishing drum?	Yes	<input checked="" type="radio"/> No
Discharge Piping		
Pipe integrity in shed.	<input checked="" type="radio"/> Good	Poor
Pipe integrity at catch basin.	<input checked="" type="radio"/> Good	Poor
Pipe at catch basin clear?	<input checked="" type="radio"/> Yes	No
Pipe integrity at creek.	<input checked="" type="radio"/> Good	Poor
Pipe at creek clear?	<input checked="" type="radio"/> Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="radio"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="radio"/> No
Air Compressor		
Compressor operational?	<input checked="" type="radio"/> Yes	No
Compressor hours.	10594.9	Hours
Oil level checked?	<input checked="" type="radio"/> Yes	No
Oil level changed?	Yes	<input checked="" type="radio"/> No
Compressor trap operating?	<input checked="" type="radio"/> Yes	No
Regulator operating?	<input checked="" type="radio"/> Yes	No
Air lines performing properly?	<input checked="" type="radio"/> Yes	No

Sampling		
Sampling Performed?	Yes	<input checked="" type="radio"/> No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	65	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	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?	Yes	<u>No</u>
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>2350</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>→</u>	Arrow
Refill control setting (departure)	<u>↔</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>1440</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: Jim V. [Signature]
 Date: 11/9/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>375</u>	GPM
Totalizer reading (cumulative volume).	<u>251874</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>17</u>	PSI
Filter unit 2 pressure @ Arrival (In /Out)	<u>15</u>	PSI
Filter unit 1 pressure @ Departure (In/Out)	<u>15</u>	PSI
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10578.4</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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.		Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
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?	Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	2350	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	141/2	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: M. R.
Date: 11/15/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.63	GPM
Totalizer reading (cumulative volume).	37.1	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	PSI
Filter unit 2 pressure @ Arrival (In /Out)	15	PSI
Filter unit 1 pressure @ Departure (In/Out)	15	PSI
Filter unit 2 pressure @ Departure	15	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary Carbon Drums		
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing Carbon Drums		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10601.0	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	8	Gallons
DNAPL/water to disposal drum.	8	Gallons
DNAPL/water to oil/water separator.	25	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product Carbon Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Notes: *Flowmeter batteries changed start @ 0.0

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>^</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>→</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>24.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	<u>Yes</u>	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: WVZ
Date: 11/21

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>356</u>	GPM
Totalizer reading (cumulative volume).	<u>2129.1</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>15</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>15</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>15</u>	<u>8</u>
Filter unit 2 pressure @ Departure	<u>15</u>	<u>8</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>5.5</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>3</u>	PSI
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	<u>No</u>

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>1023.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>50</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
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?	Yes	No
DNAPL pump pressure (arrival)	2.0	PSI
DNAPL pump pressure (departure)	2.0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.	23.5	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	2.0	PSI
LNAPL pump pressure (departure)	2.0	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	→	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.	14.0	Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No
Red 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: W. R. R.
Date: 11/25/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	35.9	GPM
Totalizer reading (cumulative volume).	4025.8	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	PSI
Filter unit 2 pressure @ Arrival (In /Out)	15	PSI
Filter unit 1 pressure @ Departure (In/Out)	15	PSI
Filter unit 2 pressure @ Departure	15	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	No
New carbon polishing drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10607.0	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1000	
Pre-Carbon Sample Time	1030	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	20	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	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>20</u>	PSI
DNAPL pump pressure (departure)	<u>16</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>↖</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	<u>Yes</u>	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>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
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	<u>Yes</u>	<u>No</u>
LNAPL top of pump depth.	<u>14.40</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red 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: T. Palmer
 Date: 12-4-12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.67</u>	GPM
Totalizer reading (cumulative volume).	<u>6393</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>17</u>	<u>8.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>16</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>17</u>	<u>8.5</u>
Filter unit 2 pressure @ Departure	<u>16</u>	<u>8</u>
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	<u>Yes</u>	<u>No</u>
Secondary carbon rotated to primary?	<u>3</u>	PSI
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>0.5</u>	PSI
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon polishing drum?	<u>Yes</u>	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	<u>Yes</u>	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10609.8</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	<u>Monthly</u>	<u>Quarterly</u>
Product sampled?	<u>Yes</u>	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
DNAPL/water to oil/water separator.	<u>70</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>—</u>	Gallons
DNAPL/water to disposal drum.	<u>—</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>—</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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<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?	Yes	<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?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>→</u>	Arrow
<i>LNAPL Pump and Piping</i>		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>14.40</u>	Feet
<i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: W. R. R. R.

Date: 12/12/12

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>3.68</u>	GPM
Totalizer reading (cumulative volume).	<u>131370</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>16</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>16</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)	<u>16</u>	<u>8</u>
Filter unit 2 pressure @ Departure (In/Out)	<u>16</u>	<u>8</u>
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>6</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
<i>Secondary carbon drum integrity.</i>		
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>4</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
<i>Polishing carbon drum integrity.</i>		
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
<i>Discharge Piping</i>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
<i>Access Vaults</i>		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
<i>Air Compressor</i>		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10613.5</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		
Sampling Performed?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
<i>Recovery from DNAPL Drum</i>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>10</u>	Gallons
<i>Recovery from Oil/Water Separator</i>		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
<i>Product, Carbon, Waste Storage</i>		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>1</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
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?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	(Yes)	No
DNAPL drum container integrity.	(Good)	Poor
Leaks present?	Yes	(No)
Decant valve integrity.	(Good)	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	(Good)	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.	2350	Feet

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	20	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	(Good)	Poor
LNAPL pump cleaned?	Yes	(No)
LNAPL top of pump depth.	14.40	Feet
Oil/Water Separator		
Water high level shut-off operational?	(Yes)	No
Red 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: MIC
Date: 12/19/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	368	GPM
Totalizer reading (cumulative volume).	18445	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	17	8.5
Filter unit 2 pressure @ Arrival (In/Out)	16	8
Filter unit 1 pressure @ Departure (In/Out)	17	9
Filter unit 2 pressure @ Departure	16	8
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	6	PSI
Primary drum removed for disposal?	Yes	(No)
Secondary carbon drum integrity.	(Good)	Poor
Secondary carbon drum leaks?	Yes	(No)
Secondary carbon drum pressure.	4	PSI
Secondary carbon rotated to primary?	Yes	(No)
Polishing carbon drum integrity.	(Good)	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondary?	Yes	(No)
New carbon polishing drum?	Yes	(No)
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	(Good)	Poor
Pipe at creek clear?	(Yes)	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	(Good)	Poor
Repairs needed to vaults?	Yes	(No)
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	10616.6	Hours
Oil level checked?	(Yes)	No
Oil level changed?	Yes	(No)
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No

Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	10	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	(Yes)	No
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>20</u>	PSI
DNAPL pump pressure (departure)	<u>20</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
DNAPL Drum		
High level shut off operational?	<u>Yes</u>	No
Green warning light operational?	<u>Yes</u>	No
DNAPL drum container integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Decant valve integrity.	<u>Good</u>	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<u>Good</u>	Poor
DNAPL pump cleaned?	Yes	<u>No</u>
DNAPL top of pump depth.	<u>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<u>Yes</u>	No
LNAPL pump pressure (arrival)	<u>20</u>	PSI
LNAPL pump pressure (departure)	<u>20</u>	PSI
Bubbler tube operating pressure.	<u>5</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>↓</u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<u>Good</u>	Poor
LNAPL pump cleaned?	Yes	<u>No</u>
LNAPL top of pump depth.	<u>1440</u>	Feet
Oil/Water Separator		
Water high level shut-off operational?	<u>Yes</u>	No
Red warning light operational?	<u>Yes</u>	No
Separator vessel integrity.	<u>Good</u>	Poor
Leaks present?	Yes	<u>No</u>
Separator cover and seal integrity.	<u>Good</u>	Poor
Decant valve integrity.	<u>Good</u>	Poor
LNAPL in separator?	Yes	<u>No</u>
Separator needs cleaning?	Yes	<u>No</u>
Separator cleaned?	Yes	<u>No</u>

Technician: MR
Date: 12/28/12

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<u>Yes</u>	No
Pump integrity.	<u>Good</u>	Poor
Flow meter operational?	<u>Yes</u>	No
Transfer pump flow rate.	<u>3.42</u>	GPM
Totalizer reading (cumulative volume).	<u>29108</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>17</u>	<u>9</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>17</u>	<u>9</u>
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	<u>Good</u>	Poor
Primary carbon drum leaks?	Yes	<u>No</u>
Primary carbon drum pressure.	<u>7</u>	PSI
Primary drum removed for disposal?	Yes	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	Yes	<u>No</u>
Secondary carbon drum pressure.	<u>4.5</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	Yes	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing drum rotated to secondary?	Yes	<u>No</u>
New carbon polishing drum?	Yes	<u>No</u>
Discharge Piping		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<u>Good</u>	Poor
Repairs needed to vaults?	Yes	<u>No</u>
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>10521.0</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1015</u>	
Pre-Carbon Sample Time	<u>1020</u>	
Sampling event?	<u>Monthly</u>	Quarterly
Product sampled?	Yes	<u>No</u>

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

Notes: