

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

**2015 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?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>16</u>	PSI
DNAPL pump pressure (departure)	<u>16</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>R</u>	Arrow
Refill control setting (departure)	<u>1</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>1</u>	Arrow
Refill control setting (departure)	<u>1</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: J. Clay / M. Resch
 Date: 1-2-15

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>2.60</u>	GPM
Totalizer reading (cumulative volume).	<u>36950.5</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>24</u>	<u>9</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>16</u>	<u>8</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>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>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?	<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>198.9</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>20</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
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

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<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>16</u>	PSI
DNAPL pump pressure (departure)	<u>16</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?	Yes	<u>No</u>
LNAPL pump pressure (arrival)	<u>0</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: 1-7-14

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>2.41</u>	GPM
Totalizer reading (cumulative volume).	<u>42203.5</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>26</u>	<u>9.5</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>18</u>	<u>8.5</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?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>5.5</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>2.5</u>	PSI
Secondary carbon rotated to primary?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>0.5</u>	PSI
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>202.4</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?	<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>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
DNAPL/water to oil/water separator.	<u>15</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
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<u>Yes</u>	No

Notes: System down upon arrival due to float in OWS being stuck.
- Insufficient water to fully cycle system (Reading didn't stabilize fully)

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>16</u>	PSI
DNAPL pump pressure (departure)	<u>16</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: 1-14-15

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>2.51</u>	GPM
Totalizer reading (cumulative volume).	<u>46508.2</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>25</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>17</u>	<u>7</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>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>35</u>	PSI
	Yes	<u>No</u>
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>0.5</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	<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>207.1</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>22</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

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:
* drive around to look @ from other side of canal
- Transfer pump sample a little lower, need to check for rebound later

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>A</u>	Arrow
Refill control setting (departure)	<u>2</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>A</u>	Arrow
Refill control setting (departure)	<u>2.1</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: W. J. [Signature]

Date: 1/21/15

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>2.58</u>	GPM
Totalizer reading (cumulative volume).	<u>4963.4</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>23</u>	<u>6</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>15</u>	<u>5.5</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>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>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>212.0</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?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1410</u>	
Pre-Carbon Sample Time	<u>1330</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>20</u>	Gallons

Recovery from Oil/Water Separator

Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons

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

Club Vent System

Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<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)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	71	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.	23.56	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)	2	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: J.M. R
 Date: 1/28/15

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	9.55	GPM
Totalizer reading (cumulative volume).	5414.1	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	8.5
Filter unit 2 pressure @ Arrival (In /Out)	20	6.5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
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.	4	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.	216.6	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	1	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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="checkbox"/> Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	7	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="checkbox"/> Yes	No
Green warning light operational?	<input checked="" type="checkbox"/> Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	<input checked="" type="checkbox"/> No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="checkbox"/> No
DNAPL top of pump depth.	2350	Feet

LNAPL/Groundwater System		
Operational upon arrival?	<input checked="" type="checkbox"/> Yes	No
LNAPL pump pressure (arrival)	70	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	↓	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="checkbox"/> No
LNAPL top of pump depth.	17.40	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.	Good	Poor
LNAPL in separator?	Yes	<input checked="" type="checkbox"/> No
Separator needs cleaning?	Yes	<input checked="" type="checkbox"/> No
Separator cleaned?	Yes	<input checked="" type="checkbox"/> No

Technician: M. J. Jones
 Date: 2/4/15

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		
Pump operational?	<input checked="" type="checkbox"/> Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	<input checked="" type="checkbox"/> Yes	No
Transfer pump flow rate.	3.50	GPM
Totalizer reading (cumulative volume).	52671.4	Gallons
Water filters changed?	Yes	<input checked="" type="checkbox"/> No
Filter unit 1 pressure @ Arrival (In/Out)	26	PSI
Filter unit 2 pressure @ Arrival (In/Out)	13	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	<input checked="" type="checkbox"/> No
Primary carbon drum pressure.	5	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	Yes	<input checked="" type="checkbox"/> No
Secondary carbon rotated to primary?	4	PSI
	Yes	<input checked="" type="checkbox"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Good	Poor
Polishing carbon drum pressure.	Yes	<input checked="" type="checkbox"/> No
Polishing drum rotated to secondary?	1	PSI
New carbon polishing drum?	Yes	<input checked="" type="checkbox"/> 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	<input checked="" type="checkbox"/> No
Spill evidence?	Yes	<input checked="" type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes	No
Compressor hours.	221.1	Hours
Oil level checked?	<input checked="" type="checkbox"/> Yes	No
Oil level changed?	Yes	<input checked="" type="checkbox"/> No
Compressor trap operating?	<input checked="" type="checkbox"/> Yes	No
Regulator operating?	<input checked="" type="checkbox"/> Yes	No
Air lines performing properly?	<input checked="" type="checkbox"/> Yes	No

Sampling		
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.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	5	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="checkbox"/> Yes	No
Drums palletized?	<input checked="" type="checkbox"/> Yes	No

Club Vent System		
Fan Running?	<input checked="" type="checkbox"/> Yes	No
Vac at sump enclosure? (Check Monthly)	<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?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</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. Bersik
 Date: 2/12/15

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>539184</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>13</u>	<u>7</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>4</u>	PSI
Primary drum removed for disposal?	<u>Yes</u>	No
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
Secondary carbon rotated to primary?	<u>Yes</u>	No
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?	<u>Yes</u>	No
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	Yes	<u>No</u>
Heater operational	Yes	<u>No</u>

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>227.6</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>7</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>2</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
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<u>Yes</u>	No

Notes: Carbon change yesterday
C-1 disposal / C-2 to C-1 / C-3 to C-2
New carbon @ C-3

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</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>14.40</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: 2-18-15

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>3.50</u>	GPM
Totalizer reading (cumulative volume).	<u>34575.7</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>11</u>	<u>6.5</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?	<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.		
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
Secondary carbon rotated to primary?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>0.5</u>	PSI
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>3 lands snow</u>	Good Poor
Repairs needed to vaults?	<u>Yes</u>	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>234.7</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time	<u>1530</u>	
Pre-Carbon Sample Time	<u>1555</u>	
Sampling event?	Monthly	<u>Quarterly</u>
Product sampled?	<u>Yes</u>	<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>6</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>2</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
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<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>15</u>	PSI
DNAPL pump pressure (departure)	<u>10</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>23.5</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>21</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>14.10</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. R. R.
Date: 2/25/15

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>3.72</u>	GPM
Totalizer reading (cumulative volume).	<u>55202</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>13</u>	<u>6</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>4</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>241.9</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?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	<u>Monthly</u>	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>5</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>2</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

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

Some ice in carbon drums
Secondary, but mostly water
*Very snowy, unsafe, no bucket of
water in vault

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</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>14.42</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: APL/min
Date: 3/4/15

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>3.60</u>	GPM
Totalizer reading (cumulative volume).	<u>5596.6</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>13</u>	<u>6</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>4</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
Secondary carbon drum pressure.	Yes	<u>No</u>
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	<u>No</u>
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	<u>No</u>

Miscellaneous		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
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>245.6</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>15.6</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>2</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

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:
* Catch basin and eff are buried under snow pile / no evidence of leak up or flooding

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	<u>No</u>
Discharge control setting (departure)	<u>Yes</u>	Arrow
Refill control setting (departure)	<u>Yes</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>Yes</u>	Arrow
Refill control setting (departure)	<u>Yes</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>	No
Separator cleaned?	<u>Yes</u>	No

Technician: MR
 Date: 3/13/15

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>35.6</u>	GPM
Totalizer reading (cumulative volume).	<u>60300.9</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>14.5</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>12</u>	<u>6</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?	<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.		
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
Secondary carbon rotated to primary?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<u>Good</u>	Poor
Polishing carbon drum pressure.	<u>Yes</u>	<u>No</u>
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>3 Buried</u>	<u>Good</u>
Repairs needed to vaults?	<u>Yes</u>	No
Air Compressor		
Compressor operational?	<u>Yes</u>	No
Compressor hours.	<u>257.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<u>Yes</u>	No

Notes: Cleaned club sump and ows.

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</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: MLK
Date: 3/18/15

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>3.40</u>	GPM
Totalizer reading (cumulative volume).	<u>11775.2</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	<u>9</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>14</u>	<u>8</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>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>3.5</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>264.9</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>	No
Post Carbon Sample Time	<u>1230</u>	
Pre-Carbon Sample Time	<u>1245</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>5</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>2</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
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<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="checkbox"/> Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	7	Arrow
DNAPL Drum		
High level shut off operational?	<input checked="" type="checkbox"/> Yes	No
Green warning light operational?	<input checked="" type="checkbox"/> Yes	No
DNAPL drum container integrity.	<input checked="" type="checkbox"/> Good	Poor
Leaks present?	Yes	<input checked="" type="checkbox"/> No
Decant valve integrity.	<input checked="" type="checkbox"/> Good	<input checked="" type="checkbox"/> Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	<input checked="" type="checkbox"/> Good	Poor
DNAPL pump cleaned?	Yes	<input checked="" type="checkbox"/> No
DNAPL top of pump depth.	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	<input checked="" type="checkbox"/> No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	7	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL pump cleaned?	Yes	<input checked="" type="checkbox"/> No
LNAPL top of pump depth.	14.40	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.	<input checked="" type="checkbox"/> Good	Poor
Leaks present?	Yes	<input checked="" type="checkbox"/> No
Separator cover and seal integrity.	<input checked="" type="checkbox"/> Good	Poor
Decant valve integrity.	<input checked="" type="checkbox"/> Good	Poor
LNAPL in separator?	Yes	<input checked="" type="checkbox"/> No
Separator needs cleaning?	Yes	<input checked="" type="checkbox"/> No
Separator cleaned?	Yes	<input checked="" type="checkbox"/> No

Technician: M. H. Heston
 Date: 3/25/15

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.	3.44	GPM
Totalizer reading (cumulative volume).	84327.8	Gallons
Water filters changed?	Yes	<input checked="" type="checkbox"/> No
Filter unit 1 pressure @ Arrival (In/Out)	20	PSI
Filter unit 2 pressure @ Arrival (In/Out)	13	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
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.	5	PSI
Primary drum removed for disposal?	Yes	<input checked="" type="checkbox"/> No
Secondary carbon drum integrity.		
Secondary carbon drum leaks?	<input checked="" type="checkbox"/> Good	Poor
Secondary carbon drum pressure.	3	PSI
Secondary carbon rotated to primary?	Yes	<input checked="" type="checkbox"/> No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	<input checked="" type="checkbox"/> Good	Poor
Polishing carbon drum pressure.	1	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?	<input checked="" type="checkbox"/> Yes	No
Repairs/work needed?	Yes	<input checked="" type="checkbox"/> No
Spill evidence?	Yes	<input checked="" type="checkbox"/> No
Electrical and Heating		
Electric controls operational	<input checked="" type="checkbox"/> Yes	No
Heater operational	<input checked="" type="checkbox"/> Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	<input checked="" type="checkbox"/> Good	Poor
Repairs needed to vaults?	Yes	<input checked="" type="checkbox"/> No
Air Compressor		
Compressor operational?	<input checked="" type="checkbox"/> Yes	No
Compressor hours.	274.7	Hours
Oil level checked?	<input checked="" type="checkbox"/> Yes	No
Oil level changed?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Compressor trap operating?	<input checked="" type="checkbox"/> Yes	No
Regulator operating?	<input checked="" type="checkbox"/> Yes	No
Air lines performing properly?	<input checked="" type="checkbox"/> Yes	No

Sampling		
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.	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.	6	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	2	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
Drums labeled?	<input checked="" type="checkbox"/> Yes	No
Drums palletized?	<input checked="" type="checkbox"/> Yes	No

Club Vent System		
Fan Running?	<input checked="" type="checkbox"/> Yes	No
Vac at sump enclosure? (Check Monthly)	<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?	<u>Yes</u>	No
DNAPL pump pressure (arrival)	<u>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>2</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>1</u>	Arrow
Refill control setting (departure)	<u>2</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>14.4</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: M. J. [Signature]
 Date: 28 4/1/15

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>98 GPM</u>	GPM
Totalizer reading (cumulative volume).	<u>33.7</u>	Gallons
Water filters changed?	<u>Yes</u>	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>7.8</u>	PSI
Filter unit 2 pressure @ Arrival (In/Out)	<u>5.5</u>	PSI
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?	<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.		
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
Secondary carbon rotated to primary?	<u>Yes</u>	<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?	<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>183.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	<u>No</u>
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

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

Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</u>	Gallons
DNAPL/water to oil/water separator.	<u>5</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>1</u>	Gallons
DNAPL/water to disposal drum.	<u>1</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>9</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</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>24.50</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.		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>14.20</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. R.
Date: 4/10/15

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>3.09</u>	GPM
Totalizer reading (cumulative volume).	<u>10397</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	<u>9</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>12</u>	<u>8</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>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>9</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.	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?	Yes	<u>No</u>
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	<u>No</u>

Miscellaneous		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
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>282.3</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		
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>5</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>2</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
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

barrier and top of pump vault (wooden board rail pushed over)

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>9</u>	Arrow
Refill control setting (departure)	<u>8</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>23.5</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>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>14.4</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: [Signature]
Date: 4/15/18

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>	<u>2.81</u>
Transfer pump flow rate.	<u>11710.6</u>	GPM
Totalizer reading (cumulative volume).	<u>18</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>12</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)		<u>7</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>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?	<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>300.3</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?	<u>Yes</u>	No
Post Carbon Sample Time	<u>0900</u>	
Pre-Carbon Sample Time	<u>0830</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>-</u>	Gallons
DNAPL/water to disposal drum.	<u>-</u>	Gallons
DNAPL/water to oil/water separator.	<u>5</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>12</u>	Drums
Spent carbon drums	<u>2</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
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	<u>No</u>

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>5</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>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>7</u>	Arrow
Refill control setting (departure)	<u>6</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. Koval
Date: 4/22/15

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>128 GPD</u>	GPM
Totalizer reading (cumulative volume).	<u>3.01</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>17</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>13</u>	<u>7</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>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.	<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.		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>5</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>2</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>1</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<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>13</u>	PSI
DNAPL pump pressure (departure)	<u>13</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</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>23.50</u>	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	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>2</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. P. [Signature]
 Date: 5/1/15

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>28.7</u>	GPM
Totalizer reading (cumulative volume).	<u>136857</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>18</u>	
Filter unit 2 pressure @ Arrival (In/Out)	<u>13</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>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>3.5</u>	PSI
Secondary carbon rotated to primary?	Yes	No
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?	<u>Yes</u>	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>3242</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>10</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>2</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
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	<u>Yes</u>	No
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</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>	No
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</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: ML
Date: 5/8/15

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>2.74</u>	GPM
Totalizer reading (cumulative volume).	<u>140844</u>	Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>15.20</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>15</u>	<u>8</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?	<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>5</u>	PSI
Secondary carbon rotated to primary?	<u>Yes</u>	<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?	<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>	<u>No</u>

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>355.1</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	<u>Yes</u>	No
Compressor trap operating?	<u>Yes</u>	No
Regulator operating?	<u>Yes</u>	No
Air lines performing properly?	<u>Yes</u>	No

Sampling		
Sampling Performed?	<u>Yes</u>	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	<u>Monthly</u>	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>50</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>2</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

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<u>Yes</u>	No

Notes:

Good

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>7</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: W. Shaw
Date: 5/13/15

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>285</u>	GPM
Totalizer reading (cumulative volume).	<u>144916</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	<u>8</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>15</u>	<u>8</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>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
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.	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?	Yes	<u>No</u>
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	<u>No</u>

Miscellaneous		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
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>341.0</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?	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>10</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>2</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

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<u>Yes</u>	No

Notes:

3 Heaters off

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</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>1</u>	Arrow
Refill control setting (departure)	<u>1</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>14.90</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?	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: LMC
 Date: 5/20/15

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>2.94</u>	GPM
Totalizer reading (cumulative volume).	<u>148747</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>18</u>	PSI
Filter unit 2 pressure @ Arrival (In/Out)	<u>12</u>	PSI
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>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
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.	Yes	<u>No</u>
Polishing drum rotated to secondary?	<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>348.1</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>1300</u>	
Pre-Carbon Sample Time	<u>1400</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>20</u>	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	<u>0</u>	Gallons
DNAPL/water to disposal drum.	<u>0</u>	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	<u>1</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>1</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<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>15</u>	PSI
DNAPL pump pressure (departure)	<u>18</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</u>	Arrow
Refill control setting (departure)	<u>+</u>	Arrow
 <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>14.40</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>23.50</u>	Feet
 <i>Oil/Water Separator</i>		
Water high level shut-off operational?	<u>Yes</u>	<u>No</u>
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. Plunk
Date: 5/29/15

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>3.57</u>	GPM
Totalizer reading (cumulative volume).	<u>151223</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>18</u>	<u>9</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>15</u>	<u>8</u>
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
 <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 leaks?	<u>Good</u>	Poor
Secondary carbon drum pressure.	Yes	<u>No</u>
Secondary carbon rotated to primary?	<u>4</u>	PSI
Secondary carbon rotated to primary?	Yes	<u>No</u>
 <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?	Yes	<u>No</u>
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	<u>No</u>

Miscellaneous		
<i>Building and Site</i>		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
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>3577</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?	Yes	<u>No</u>
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>0</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>3</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
 <i>Club Vent System</i>		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

3.57

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</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.K.
Date: 6/5/15

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>3.11</u>	GPM
Totalizer reading (cumulative volume).	<u>161317</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>19</u>	<u>5.5</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>12</u>	<u>7</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?	<u>Yes</u>	<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.	<u>Yes</u>	<u>No</u>
Secondary carbon rotated to primary?	<u>3.5</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>Yes</u>	<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	<u>Yes</u>	No

off

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>364.2</u>	Hours
Oil level checked?	<u>Yes</u>	No
Oil level changed?	Yes	<u>No</u>
Compressor trap operating?	<u>Yes</u>	<u>No</u>
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>2</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>2</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
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes: no access to club today

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)	15	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Discharge control setting (departure)	↑	Arrow
Refill control setting (departure)	7	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.	13.5	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)	7	Arrow
Refill control setting (departure)	2	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.	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 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: M. J. C.
 Date: 6/12/17

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.	352	GPM
Totalizer reading (cumulative volume).	171658	Gallons
Water filters changed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Filter unit 1 pressure @ Arrival (In/Out)	20	PSI
Filter unit 2 pressure @ Arrival (In/Out)	13	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
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.	6	PSI
Primary drum removed for disposal?	<input checked="" type="radio"/> Yes	<input checked="" 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 checked="" type="radio"/> No
Secondary carbon drum pressure.	3.5	PSI
Secondary carbon rotated to primary?	<input checked="" type="radio"/> Yes	<input checked="" 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 checked="" type="radio"/> No
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.	370.1	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 type="radio"/> Yes	<input checked="" 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	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	5	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	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
Club Vent System		
Fan Running?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Vac at sump enclosure? (Check Monthly)	<input checked="" type="radio"/> Yes	<input type="radio"/> 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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</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>1</u>	Arrow
Refill control setting (departure)	<u>1</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: MP
Date: 6/17/15

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>3.23</u>	GPM
Totalizer reading (cumulative volume).	<u>178519</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>20</u>	<u>9</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>13</u>	<u>8</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>1</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>4</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.	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?	Yes	<u>No</u>
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	Yes	<u>No</u>

Miscellaneous		
Building and Site		
Remediation shed integrity.	<u>Good</u>	Poor
Shed ventilation acceptable?	Yes	<u>No</u>
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	<u>No</u>

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>374.1</u>	Hours
Oil level checked?	<u>Yes</u>	<u>No</u>
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>13:50</u>	
Pre-Carbon Sample Time	<u>13:43</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>5</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>2</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>
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	<u>No</u>

Notes:

off

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>1</u>	Arrow
Refill control setting (departure)	<u>1</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>2</u>	Arrow
Refill control setting (departure)	<u>2</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: amv
Date: 6/24/15

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>3.01</u>	GPM
Totalizer reading (cumulative volume).	<u>184264</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>25</u>	<u>10</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>15</u>	<u>5</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>6</u>	PSI
Primary drum removed for disposal?	<u>Yes</u>	No
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?	<u>Yes</u>	<u>No</u>
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?	<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>380.0</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?	Yes	<u>No</u>
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	<u>Monthly</u>	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>4</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

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	<u>Yes</u>	No

Notes: Installed and hydrostatic up (3) new carbons, system on #3 only till tomorrow

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</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>23.5</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>17-20</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: 7-2-15

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>402</u>	GPM
Totalizer reading (cumulative volume).	<u>195309</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>19.5</u>	<u>7.5</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>12</u>	<u>6.5</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>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
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.	Yes	<u>No</u>
Polishing drum rotated to secondary?	<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?	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	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>387.7</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>9</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?	Yes	No
Drums palletized?	Yes	No

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes: Drum P14

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>15</u>	PSI
DNAPL pump pressure (departure)	<u>15</u>	PSI
Pneumatic settings adjusted?	Yes	<u>No</u>
Discharge control setting (departure)	<u>↑</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>24.50</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>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>14.1</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: W. R. L.
Date: 7/10/15

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>3.85</u>	GPM
Totalizer reading (cumulative volume).	<u>201037</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>17</u>	<u>7</u>
Filter unit 2 pressure @ Arrival (In/Out)	<u>17</u>	<u>7</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>4.5</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>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	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>394.9</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>0</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>0</u>	Drums
Drums labeled?	Yes	<u>No</u>
Drums palletized?	Yes	<u>No</u>

Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	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.	23.50	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.	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: 7/17/15
Date: [Signature]

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.	3.78	GPM
Totalizer reading (cumulative volume).	203984	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	20	2
Filter unit 2 pressure @ Arrival (In/Out)	12	2
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		

Carbon Treatment Drums

Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	9.5	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.	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.	398.2	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		
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

Club Vent System

Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes: Sump system up / Air down

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	0	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	1	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.	24.50	Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	0	PSI
LNAPL pump pressure (departure)	20	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	1	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: MR
Date: 7/31/15

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.	2.70	GPM
Totalizer reading (cumulative volume).	207100	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	10
Filter unit 2 pressure @ Arrival (In/Out)	15	10
Filter unit 1 pressure @ Departure (In/Out)	15	10
Filter unit 2 pressure @ Departure	15	10
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.	4	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.	358.3	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	0830	
Pre-Carbon Sample Time	0945	
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)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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: MLK
Date: 8/19/15

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.	3.74	GPM
Totalizer reading (cumulative volume).	215072	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	PSI
Filter unit 2 pressure @ Arrival (In /Out)	10	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
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
	Yes	No
Polishing carbon drum integrity.		
Polishing carbon drum leaks?	Good	Poor
Polishing carbon drum pressure.	Yes	No
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.	401.3	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
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

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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: W. J. / 9/14/15
 Date: 9/14/15

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.	3.51	GPM
Totalizer reading (cumulative volume).	216,868	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	7
Filter unit 2 pressure @ Arrival (In/Out)	10	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3	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.	7	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.	487.3	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No

Sampling		
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
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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: MLK
Date: 9/18/15

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.	3.48	GPM
Totalizer reading (cumulative volume).	228238	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	40	PSI
Filter unit 2 pressure @ Arrival (In/Out)	30	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	4	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	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.		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

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:
LRI pumping 14th 130 gallons
15th 1500 gallons
16th 780 gallons

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: M. J. Kestel
 Date: 10/6/18

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.	2.47	GPM
Totalizer reading (cumulative volume).	233415	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	35	PSI
Filter unit 2 pressure @ Arrival (In/Out)	30	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	3	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?	1	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?	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.		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	12:30	
Pre-Carbon Sample Time	12:30	
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

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes: Power both on after leaving off on Friday for two movements

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: MLK
Date: 10/18/15

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.	276	GPM
Totalizer reading (cumulative volume).	2377.8	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	35	PSI
Filter unit 2 pressure @ Arrival (In/Out)	30	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	4	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.		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

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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: WVK
Date: 10/22/15

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.	265	GPM
Totalizer reading (cumulative volume).	239037	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	42	PSI
Filter unit 2 pressure @ Arrival (In/Out)	30	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
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.	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
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.		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

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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: 10/30/15
 Date: 10/30/15

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.	3.03	GPM
Totalizer reading (cumulative volume).	240895	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	40	2
Filter unit 2 pressure @ Arrival (In/Out)	40	2
Filter unit 1 pressure @ Departure (In/Out)	15	7.5
Filter unit 2 pressure @ Departure	10	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.	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
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.		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

Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

DNAPL System		
Operational upon arrival?	Yes	No <u>2</u>
DNAPL pump pressure (arrival)		PSI <u>2</u>
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 <u>0</u>
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: WPK
Date: 11/6/15

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>2.78</u>	GPM
Totalizer reading (cumulative volume).	<u>293098</u>	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	<u>16</u>	PSI
Filter unit 2 pressure @ Arrival (In /Out)	<u>12</u>	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	<u>9</u>	PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon rotated to primary?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	<u>1</u>	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.		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 <u>1</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?	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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>	<u>No</u>
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?	<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?	Yes	<u>No</u>
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	<u>No</u>
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	<u>Poor</u>
LNAPL pump cleaned?	Yes	No
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: mp. [signature]
 Date: 11/13/15

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>770</u>	GPM
Totalizer reading (cumulative volume).	<u>251730</u>	Gallons
Water filters changed?	Yes	<u>No</u>
Filter unit 1 pressure @ Arrival (In/Out)	<u>21</u>	<u>60</u>
Filter unit 2 pressure @ Arrival (In /Out)	<u>14</u>	<u>4</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?	<u>Yes</u>	<u>No</u>
Primary carbon drum pressure.	<u>4</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>Yes</u>	<u>No</u>
Secondary carbon rotated to primary?	<u>2</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>Yes</u>	<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?	Yes	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?	Yes	<u>No</u>
Compressor hours.		Hours
Oil level checked?	Yes	<u>No</u>
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	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?	Yes	No
Drums palletized?	Yes	No
Club Vent System		
Fan Running?	<u>Yes</u>	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes:

Used sheets for JTM

Former Gastown Manufactured Gas Plant Site

Table 4-1

Site Visit Checklist/Data Sheet

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

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

Technician: MR
 Date: 12/2/15

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>	<u>No</u>
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).		Gallons
Water filters changed?	<u>Yes</u>	<u>No</u>
Filter unit pressure (arrival/departure)	<u>12/2</u> <u>10/17</u>	PSI
<u>Carbon Treatment Drums</u>		
Primary carbon drum integrity.	<u>Good</u>	<u>Poor</u>
Primary carbon drum leaks?	<u>Yes</u>	No
Primary carbon drum pressure.		PSI
Primary carbon removed for disposal?	<u>Yes</u>	No
Secondary carbon drum rotated to primary?	<u>Yes</u>	No
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
Secondary carbon drum integrity.	<u>Good</u>	Poor
Secondary carbon drum leaks?	<u>Yes</u>	<u>No</u>
Secondary carbon drum pressure.	<u>3</u>	PSI
Secondary carbon removed for disposal?	<u>Yes</u>	<u>No</u>
Polishing drum rotated to secondary?	<u>Yes</u>	<u>No</u>
New carbon placed in secondary drum?	<u>Yes</u>	<u>No</u>
Polishing carbon drum integrity.	<u>Good</u>	Poor
Polishing carbon drum leaks?	<u>Yes</u>	<u>No</u>
Polishing carbon drum pressure.	<u>1</u>	PSI
Polishing carbon removed for disposal?	<u>Yes</u>	<u>No</u>
New carbon placed in primary drum?	<u>Yes</u>	<u>No</u>
<u>Discharge Piping</u>		
Pipe integrity in shed.	<u>Good</u>	Poor
Pipe integrity at catch basin.	<u>Good</u>	Poor
Pipe at catch basin clear?	<u>Yes</u>	No
Pipe integrity at creek.	<u>Good</u>	Poor
Pipe at creek clear?	<u>Yes</u>	No

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

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

Sampling		
Primary carbon influent sampled?	<u>Yes</u>	No
Primary carbon effluent sampled?	<u>Yes</u>	No
Secondary carbon effluent sampled?	<u>Yes</u>	No
Compliance event?	<u>Yes</u>	<u>No</u>
Time sampled.	<u>1:45</u>	a.m./p.m.
Product sampled?	<u>Yes</u>	<u>No</u>

Recovery and Disposal		
<u>Recovery from DNAPL Drum</u>		
Pure DNAPL to disposal drum.	<u>2</u>	Gallons
DNAPL/water to disposal drum.	<u>2</u>	Gallons
DNAPL/water to oil/water separator.	<u>3</u>	Gallons
<u>Recovery from Oil/Water Separator</u>		
Pure DNAPL to disposal drum.	<u>12</u>	Gallons
DNAPL/water to disposal drum.	<u>2</u>	Gallons
<u>Product, Carbon, Waste Storage</u>		
DNAPL drums on-site (full and fractional)	<u>2</u>	Drums
Spent carbon drums	<u>2</u>	Drums
PPE/Solids drums	<u>2</u>	Drums
LNAPL drums	<u>2</u>	Drums
Drums labeled?	<u>Yes</u>	No
Drums palletized?	<u>Yes</u>	No

Notes: 2 more barrels

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: WJH
Date: 12/08/15

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).	2228.6	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	13	PSI
Filter unit 2 pressure @ Arrival (In /Out)	12	PSI
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
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.		
Secondary carbon drum leaks?	Good	Poor
Secondary carbon drum pressure.	3	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.		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
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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: WIK
 Date: 12/11/15

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.	3.24	GPM
Totalizer reading (cumulative volume).	10.1	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	G
Filter unit 2 pressure @ Arrival (In /Out)	12	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure		
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.		
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?	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.		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
Club Vent System		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	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
<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: MMK
 Date: 12/30/15

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.	3.54	GPM
Totalizer reading (cumulative volume).	9586.2	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	30	2
Filter unit 2 pressure @ Arrival (In /Out)	30	2
Filter unit 1 pressure @ Departure (In/Out)	17	2
Filter unit 2 pressure @ Departure	30	2
<i>Carbon Treatment Drums</i>		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		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

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.		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	1015	
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)	0	Drums
Spent carbon drums	0	Drums
PPE/Solids drums	0	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No
<i>Club Vent System</i>		
Fan Running?	Yes	No
Vac at sump enclosure? (Check Monthly)	Yes	No

Notes: