FORMER GASTOWN MGP SITE SITE NO. 915171

2011 SITE VISIT CHECKLISTS FOR THE GROUNDWATER COLLECTION & TREATMENT SYSTEM

DNAPL System Operational upon arrival? Yes_ No DNAPL pump pressure (arrival) PSI 18 DNAPL pump pressure (departure) 18 PSI Pneumatic settings adjusted? $\overline{\mathbb{N}}$ Yes Discharge control setting (departure) F Arrow Refill control setting (departure) Arrow Yes Good Yes Good High level shut off operational? No Green warning light operational? No DNAPL drum container integrity. Poor

Good

Yes

Poor

Poor

 $\overline{\mathbb{N}}$

Feet

DNAPL Pump and Piping DNAPL piping integrity. DNAPL pump cleaned? DNAPL top of pump depth.

DNAPL Drum

Leaks present?

Decant valve integrity.

LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	19	PSI
LNAPL pump pressure (departure)	12	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	M	Arrow
Refill control setting (departure)	N	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	\square
LNAPL top of pump depth.	·····	Feet
<u>Oll-Water Separator</u>		
Water high level shut-off operational?	Tes	No
White warning light operational?	Ves	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	(ND)
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	Ø
Technician: T. Palme/	· · · · · · · · · · · · · · · · · · ·	
Date: 1-5-11		

LNAPL/Groundwater System - (Continued)		an an ann an
Transfer Pump and Piping		
Pump operational?	(Tes)	No
Pump integrity.	(Tood)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate,	2.49	GPM
Totalizer reading (cumulative volume).	55157.3	Gailons
Water filters changed?	(Vee)	No
Filter unit pressure (arrival/departure)	Jala	PSI
	<u></u>	
Carbon Treatment Drums	1	
Primary carbon drum integrity.	(5000)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	3.5	PSI
Primary carbon removed for disposal?	Yes	(N)
Secondary carbon drum rotated to primary?	Yes	
New carbon placed in primary drum?	Yes	
		<u> </u>
Secondary carbon drum integrity.	Good	Peor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	2.0	PSI
Secondary carbon removed for disposal?	Yes	(N2
Polishing drum rotated to secondary?	Yes	B
New carbon placed in secondary drum?	Yes	(10)
	103	
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.	05	PSI
Polishing carbon removed for disposal?	Yes	
New carbon placed in primary drum?	Yes	(76)
- e	105	
Discharge Piping		
Pipe integrity in shed	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	(Tes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	100	No
Miscellaneous		
Building and Site	T	
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	(N)
Repairs/work needed?	Yes	Ŕ
Spill evidence?	Yes	(N)
-		
Electrical and Heating		
Electric controls operational	Yesi I	No

Miscellaneous - (Continued) Access Vaults Overall vault integrity. Good Poor Repairs needed to vaults? No Yes Air Compressor Compressor operational? No Compressor hours. Hours Oil level checked? Yes Yes No Oil level changed? ND Compressor trap operating? Yes No Yes Regulator operating? No Air lines performing properly? No Sampling (No) Prunary carbon influent sampled? Yes Primary carbon effluent sampled? Yes No B Secondary carbon effluent sampled? Yes Compliance event? Yes Time sampled. a.m./p.m. Product sampled? Yes (No) Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. Gallons DNAPL/water to disposal drum. 0,26 Gallons DNAPL/water to oil/water separator. Gallous Recovery from Oil Water Separator Pure DNAPL to disposal drum. Gallons DNAPL/water to disposal drum. Galions Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Drams Spent carbon drums Drums PPE/Solids drums Drums LNAPL drums Drums. Drums labeled? Cres No Yes Drums palletized? No

Notes: Filter Changel

DNAPL System		r siles i si si si si si si si si si si si si si s
Operational upon arrival?	(cs)	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	ത്ര
Discharge control setting (departure)	R	Алтоw
Refill control setting (departure)	¥	Atrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?		No
DNAPL drum container integrity.	000	Poor
Leaks present?	Yes	(A)
Decant valve integrity.	60	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	67
DNAPL top of pump depth.	NIA	Feet
LNAPL/Groundwater System		faan too oo
Operational upon arrival?		<u></u>

	LIAT LIGTOUNGWATER Dystem		ngan sa kara sa kara
	Operational upon arrival?	(B)	No
	LNAPL pump pressure (arrival)	110	PSI
	LNAPL pump pressure (departure)	16	PSI
	Bubbler tube operating pressure.	6	PSI
	Pneumatic settings adjusted?	Yes	M NA
	Discharge control setting (departure)	A I	Arrow
	Refill control setting (departure)	1	Апоw
	LNAPL Pump and Piping	ļ	
	LNAPL piping integrity.	Good	Poor
	LNAPL pump cleaned?	Yes	No
	LNAPL top of pump depth.	NIA	Feet
	Oil Water Separator		
	Water high level shut-off operational?	10 A	No
2)	White warning light operational?		No
F	Separator vessel integrity.		Poor
	Leaks present?	Yes	
	Separator cover and seal integrity.	Good	
	Decant valve integrity.		Poor
	LNAPL in separator?	Good Yes	Poor
	Separator needs cleaning?	Yes	S
	Separator cleaned?	Yes	X
	Technician: Daniel O'Sullivan w	Tom Pal	mer
	Date: 01-13-11		

LNAPL/Groundwater System - (Continued)		
Transfer Pump and Piping		<u>ngan ngangs</u>
Pump operational?		No
Pump integrity.	(inter	
Flow meter operational?	2000	Poor
Transfer pump flow rate.	(Tes	No
	2.75	GPM
Totalizer reading (cumulative volume).	\$0397.1	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)		PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	6000	Poor
Primary carbon drum leaks?	Res	No
Primary carbon drum pressure.	5.5	PSI
Primary carbon removed for disposal?	Yes	Na
Secondary carbon drum rotated to primary?	Yes	
New carbon placed in primary drum?	Yes	96
	103	
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(No)
Secondary carbon drum pressure.	75	PSI
Secondary carbon removed for disposal?	Yes	A.
Polishing drum rotated to secondary?	Ýes	E C
New carbon placed in secondary drum?	Yes	Ń
con enour placed in secondary cruin:	105	9
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	(No
Polishing carbon drum pressure.	1.0	PSI
Polishing carbon removed for disposal?	Yes	6
New carbon placed in primary drum?	Yes	
and prove a primary dama	103	
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
	<u></u>	
Miscellaneous		
Building and Site		
		Poor
Remediation shed integrity.	Goog	\sim
	Good Yes	(No)
Remediation shed integrity.	Good Yes (Tes)	No No
Remediation shed integrity. Shed ventilation acceptable?	Good Yes Yes	2 2 2 2 2
Remediation shed integrity. Shed ventilation acceptable? Repairs/work needed?	Yes Yes Yes	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Remediation shed integrity. Shed ventilation acceptable? Repairs/work needed? Spill evidence? <u>Electrical and Heating</u>	Yes Yes	22 × 23 23
Remediation shed integrity. Shed ventilation acceptable? Repairs/work needed? Spill evidence?	Yes Yes	No No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	O	No
Compressor hours.	097573	Hours
Oil level checked?	Ċ	No
Oil level changed?	Yes	No
Compressor trap operating?	(Ces)	No
Regulator operating?	69	No
Air lines performing properly?	(Yes)	No
Sampling N/A		
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.		a.m./p.m.
Product sampled?	Yes	No
Recovery and Disposal		
Recoverv from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	3-5	Gallons
DNAPL/water to oil/water separator.		
	30	Gallons
Recovery from Oil Water Separator	30	Gallons
<u>Recovery from Oil Water Separator</u> Pure DNAPL to disposal drum	30	
Pure DNAPL to disposal drum,	30	Gallons
Pure DNAPL to disposal drum,	30	
Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	30	Gallons
Pure DNAPL to disposal drum.		Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>		Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)		Gallons Gallons Drums
Pure DNAPL to disposal drum, DNAPL/water to disposal drum, <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Drums Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Drums Drums Drums Drums

Notes: Change compressor oil and air filtel

Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	18	PS
DNAPL pump pressure (departure)	18	PS
Pneumatic settings adjusted?	Yes	The
Discharge control setting (departure)	N	Апто
Refill control setting (departure)	L.	Arro
DNAPL Drum		
High level shut off operational?	(শিক্ষ	No
Green warning light operational?	Tes	No
DNAPL drum container integrity.	Good	Poo
Leaks present?	Yes	CNO
Decant valve integrity.	Good	Poo
DNAPI, Pump and Piping		
DNAPL piping integrity.	Good	Poo
DNAPL pump cleaned?	Yes	CNo
DNAPL top of pump depth.		Fee

LNAPL/Groundwater System		
Operational upon arrival?	(Tes)	No
LNAPL pump pressure (arrival)	18	PSI
ENAPL pump pressure (departure)	18	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	(No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	N.	Arrow
INAPL Pump and Piping		
LNAPL piping integrily.	T. S. S.	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump deptin.	105	Feet
		reel
Oil Water Separator		
Water high level shut-off operational?	(Tes	No
White warning light operational?	60	No
Separator vessel integrity.	·Good	Poor
Leaks present?	Yes	(N)
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	(No)
Separator needs cleaning?	Yes	
Separator cleaned?	Yes	3
Technician:		
Date: 1-21-11		

	Zhan shushi sa s	16.23 - 12 - 1 - 12 - 12 - 12 - 12 - 12 - 1
ENAPL/Groundwater System - (Continued)	tripping their	
Transfer Pump and Piping		
Pump operational?	<u>(es</u>	No
Pump integrity.	Good	Poor
Flow meter operational?	্ৰ হৈছ	No
Transfer pump flow rate.	3.88	GPM
Totalizer reading (cumulative volume).	64863.0	Gallons
Water filters changed?	(Feg)	No
Filter unit pressure (arrival/departure)	3073	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Tes	No
Primary carbon drum pressure.	6	PSI
Primary carbon removed for disposal?	Yes	(No
Secondary carbon drum rotated to primary?	Yes	60
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(No
Secondary carbon drum pressure.	56	PSI
Secondary carbon removed for disposal?	Yes	(No
Polishing drum rotated to secondary?	Yes	
New carbon placed in secondary drum?	1	
new carbon placed in secondary urun?	Yes	\odot
Polishing carbon drum integrity.	Goga	Poor
Polishing carbon drum leaks?	Yes	5
Polishing carbon drum pressure.	1.0	PSI
Polishing carbon removed for disposal?	Yes	G
New carbon placed in primary drum?	Yes	Ň
		-
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at eatch basin clear?	Ves	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous		
Building and Site	1	······································
Remediation shed integrity.		D.,
Shed ventilation acceptable?	Good	Poor
Repairs/work needed?	Yes	
	(Yee)	No
Spill evidence?	Yes	~ ~ µ~
Electrical and Heating	[]	
<u>Electrical and Heating</u> Electric controls operational	Yes	Ng

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?		No
Compressor hours.	0785.8	Hours
Oil level checked?	(Les	No
Oil level changed?	Yes	No
Compressor trap operating?	(Ver	No
Regulator operating?	Ves	No
Air lines performing properly?	(res)	No
	,/-	- A
Sampling	$ 1 \sqrt{1}$	H
Primary carbon influent sampled?	Yes	No
Primary carbon effluent sampled?	Yes	No
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.		a.m./p.m.
Product sampled?	Yes	No
Recovery and Disposal	······	·····
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	· · · · · ·	Gallons
	0.25	Gallons Gallons
DNAPL/water to disposal drum.	0.25	
DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0.25	Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0.25	Gallons Gallons
DNAPL/water to disposal drum, DNAPL/water to oil/water separator, <u>Recoverv from Oil/Water Separator</u> Pure DNAPL to disposal drum,	0.25 280	Gallons Gallons Gallons
DNAPL/water to disposal drum, DNAPL/water to oil/water separator, <u>Recoverv from Oil/Water Separator</u> Pure DNAPL to disposal drum,	0.25	Gallons Gallons
DNAPL/water to disposal drum, DNAPL/water to oil/water separator, <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum, DNAPL/water to disposal drum,	0.25	Gallons Gallons Gallons
DNAPL/water to disposal drum, DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>	0.25	Gallons Gallons Gallons
DNAPL/water to disposal drum, DNAPL/water to oil/water separator, <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum,	0.25	Gallons Gallons Gallons Gallons
DNAPL/water to disposal drum, DNAPL/water to oil/water separator, <u>Recoverv from Oil/Water Separator</u> Pure DNAPL to disposal drum, DNAPL/water to disposal drum, <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	0.25	Gallons Gallons Gallons Gallons Drums
DNAPL/water to disposal drum, DNAPL/water to oil/water separator. <u>Recovery from Oil. Water Separator</u> Pure DNAPL to disposal drum, DNAPL/water to disposal drum, <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	0.25 20	Gallons Gallons Gallons Gallons Drums
DNAPL/water to oil/water separator. <u>Recovery from Oil: Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	0.25 20	Gallons Gallons Gallons Gallons Drums Drums Drums

Former Gastown Manufactured Gas Plant Site <u>Table 4-1</u>

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	U	PSI
DNAPL pump pressure (departure)	12	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	71	Arrow
Refill control setting (departure)	L.	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	MEST	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	(NO)
Decant valve integrity.	6000	Poor
DNAPI. Pump and Piping		
DNAPL piping integrity.	6000	Poor
DNAPL pump cleaned?	Yes	NO
DNAPL top of pump depth.	NIA	Feet

LNAPL/Groundwater System		Constantino de Artes Reduceros de Constantino
Operational upon arrival?	(es)	No
LNAPL pump pressure (arrival)	18	PSI
LNAPL pump pressure (departure)	19	PSI
Bubbler tube operating pressure.	6	PSI
Pncumatic settings adjusted?	Yes	(No
Discharge control setting (departure)	21	Arrow
Refill control setting (departure)		Arrow
<u>LNAPL Pump and Piping</u> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	God Yes	Poor Poor Feet
Oll Water Separator Water high level shut-off operational? White warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned?	Yes Good Yes Yes Yes Yes	20 20 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20
rechnician: Daviel O'Sullivan	W Tom	Palmer
Date: 01-26-2011	I	

		14000000000000
LNAPL/Groundwater System - (Continued) <u>Transfer Pump and Piping</u>		ngan si karan
Pump operational?		NI.
Pump integrity.		No
	Coole	Poor
Flow meter operational?	Cres	No
Transfer pump flow rate.	2 83	GPM
Totalizer reading (cumulative volume).	668830	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)		PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure,	6	PSI
Primary carbon removed for disposal?	Yes	XG
Secondary carbon drum rotated to primary?	Yes	
New carbon placed in primary drum?	Yes	No.
		U.S.
Secondary carbon drum integrity.	6000	Poor
Secondary carbon drum leaks?	Yes	හ
Secondary carbon drum pressure.	20	PS1
Secondary carbon removed for disposal?	Yes	620
Polishing drum rotated to secondary?	Ýes	Q
New carbon placed in secondary drum?	Yes	6
		U
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	(N)
Polishing carbon drum pressure.		PSI
Polishing carbon removed for disposal?	Yes	(No
New carbon placed in primary drum?	Yes	<pre>K</pre>
in printing and in printing and in printing and in the	1.03	
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	6000	Poor
Pipe at catch basin clear?		No
Pipe integrity at creek.	Good	Роог
Pipe at creek clear?	Tes	No
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	(No)
Repairs/work needed?	(es)	No
Spill evidence?	Yes	Ø
1		
Flactrical and Heating	l	
Electrical and Heating		
<u>Electrical and Heating</u> Electric controls operational Heater operational		No No

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	ۇ ١٥
Air Compressor		
Compressor operational?	(Yea)	. No
Compressor hours,	098057	Hours
Oil level checked?	Q	Nø
Oil level changed?	Yes	B
Compressor trap operating?	O	No
Regulator operating?	Co I	No
Air lines performing properly?		No
Sampling		
Primary carbon influent sampled?	Nes)	No
Primary carbon effluent sampled?	Yes	(N)
Secondary carbon effluent sampled?	Yes	No
Compliance event?	Yes	No
Time sampled.	1445	a.m.//.n)
Product sampled?	Yes	Cho -
		Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	* India hacked	Gallons
DNAPL/water to oil/water separator.	je	Gallons
Recovery from Oil-Water Separator		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	0	Drums
PPE/Solids drums	í	Drums
LNAPL drums	0	Drums.
Drums labeled?	(TE)	No
Drums palletized?		No
Notes: Minighty Samplay Post Carbon @ Pre - Carbon@	1445	-
Do ClurG	1455)

Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	[No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	K	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

Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	17] PSI
LNAPL pump pressure (departure)	17	PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	×	Arrow
LNAPL Pump and Piping	a second second	
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
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
echnician: T.Palmer		

Date:

Table 4-1

	-N	
LNAPL/Groundwater System - (Continue	d)	1
Transfer Pump and Piping	(The	
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).	69249.4	Gallons
Water filters changed?	(Yes)	No
Filter unit pressure (arrival/departure)	30/9	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	6	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	NO
Secondary carbon drum pressure.	2	PSI
Secondary carbon removed for disposal?	Yes	(No)
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	NO
new carbon placed in secondary drama	103	00
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	NO
Polishing carbon drum pressure.	0,5	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon primary drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	(Yes)	No
	Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	98305	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		15 0
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
	·····	
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	5	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Passyon from Oil/Mater Separator		
Recovery from Oil/Water Separator		Callena
Pure DNAPL to disposal drum.		Gallons
		Gallons Gallons
Pure DNAPL to disposal drum.	1	
Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	=	
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0-11	Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	11 -0-	Gallons Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	1 -0-0	Gallons Drums Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	@0-0- //	Gallons Drums Drums Drums

Notes: - Hole in elbour & bottom of Compressor tank. replace elbour and nipple between tank and dram valve.

DNAPL System Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	15	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Аптом
Refill control setting (departure)	U.	Arrow
DNAPL Drum	(Yes)	No
High level shut off operational?	Yes	No
Green warning light operational?	(Good/	Poor
DNAPL drum container integrity. Leaks present?	Yes	(No)
Decant valve integrity.	Good	Poor
becant valve integrity.	Good	
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	(No)
DNAPL top of pump depth.		Feet
	an al an	
LNAPL/Groundwater System		
LNAPL/Groundwater System Operational upon arrival?	(Yes)	No
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival)	10	PSI
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure)	10	PSI PSI
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure.	10 10 6	PSI PSI PSI
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?	10 10 L Yes	PSI PSI PSI
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure)	10 10 Ves	PSI PSI PSI Arrow
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?	10 10 L Yes	PSI PSI PSI
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure)	10 10 Ves	PSI PSI PSI Arrow
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure)	10 10 Ves	PSI PSI PSI Arrow
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping	10 10 Ves	PSI PSI PSI Arrow Arrow
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity.	10 10 Ves (Good)	PSI PSI No Arrow Arrow
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	10 10 Ves (Good)	PSI PSI No Arrow Arrow Poor
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned?	10 10 Ves (Good)	PSI PSI No Arrow Arrow Poor

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? Some Shine	Yes	(No)
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No?

Technician: Dan 1Sullivan

Date: 02.09.201

Table 4-1

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).	168804	Gallons
Water filters changed?	Yes	(Nò
Filter unit pressure (arrival/departure)	12	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to New carbon placed in primary drum?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon primary drum?

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

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

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	0764/03	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),
	NIA	
Post Carbon Sample Time MIA	NIA	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal	Alera - Alera	
Recovery from DNAPL Drum		0.5
Pure DNAPL to disposal drum.	2.5	Gallons
DNAPL/water to disposal drum.	700	Gallons
	0	Gallons
DNAPL/water to oil/water separator.		
DNAPL/water to oil/water separator.	 	
Recovery from Oil/Water Separator		
	e	Gallons
Recovery from Oil/Water Separator	e c	Gallons Gallons
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	e C	
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	C I	
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>		Gallons
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	C I	Gallons
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	C I	Gallons Drums Drums
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Drums Drums Drums

(No)

PSI

(No)

No

(No)

Poor

(No)

PSI

(No-

(No:

No's

Poor

(No)

PSI

No

(No)

Yes

5

Yes

Yes

Yes

Good >

Yes

Yes

Yes

Yes

(Good'

Yes

Yes

Yes

. 5

2

Notes: Trammy of Dan with T. Palmy

Yes

No

Drums palletized?

Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	10	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	X	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

Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	18	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	X	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: <u>BM:11er</u> Date: <u>2-17-11</u>

Table 4-1

	and the second se	
LNAPL/Groundwater System - (Continued	1)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.22	GPM
Totalizer reading (cumulative volume).	75589.3	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	3019	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	5	PSI
Primary carbon removed for disposal?	Yes	(No)
Secondary carbon drum rotated to	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	3	PSI
Secondary carbon removed for disposal?	Yes	(No)
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	(No>
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	Yes	(No
New carbon primary drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Tes	No
Miscellaneous		
Building and Site	A	
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		and the second se
Electric controls operational	Yes	No
Heater operational	Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	9855.Z	Hours
Oil level checked?	Yes	No
Oil level changed?	Cres	(No
Compressor trap operating?	(Yes)	No
Regulator operating?	4es	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	NIA	1
Pre-Carbon Sample Time	MM	
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum	Z	
		Gallons
Pure DNAPL to disposal drum.	2	
	NO	
Pure DNAPL to disposal drum.	NNOO	Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	000	Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	00 00V	Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	00	Gallons Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	00	Gallons Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	00 - 0-	Gallons Gallons Gallons Gallons Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	00	Gallons Gallons Gallons Gallons Drums Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	00 - 0-	Gallons Gallons Gallons Gallons Drums Drums Drums

Operational upon arrival?	res	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	18	Arrow
Refill control setting (departure)	4	Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet

LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	N.	Arrow
Refill control setting (departure)	N	Апоw
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
echnician: BM:16r		

Date:

Table 4-1

Transfer Pump and PipingPump operational?YesPump integrity.YesFlow meter operational?YesTransfer pump flow rate.X & 3Totalizer reading (cumulative volume).836/8/1Water filters changed?YesFilter unit pressure (arrival/departure)35779Primary carbon drum integrity.GoodPrimary carbon drum pressure.PoorPrimary carbon drum pressure.PoorPrimary carbon drum rotated toYesNew carbon placed in primary drum?YesSecondary carbon drum pressure.SSecondary carbon drum pressure.YesNew carbon placed in secondary?YesNew carbon placed in secondary?YesNew carbon placed in secondary?YesPolishing carbon drum netast?YesPolishing carbon drum pressure.XPolishing carbon drum pressure.YesPolishing	LNAPL/Groundwater System - (Continued	d)	
Pump integrity.CoortPoorFlow meter operational?Transfer pump flow rate.X - 3 - 3GPMTotalizer reading (cumulative volume).X - 3 - 3GPMWater filters changed?YesGoodPoorFilter unit pressure (arrival/departure)35 / 9PSICarbon Treatment DrumsGoodPoorPrimary carbon drum integrity.GoodPoorPrimary carbon drum nessure.5PSIPrimary carbon drum nessure.5PSINew carbon placed in primary drum?YesNoSecondary carbon drum integrity.GoodPoorSecondary carbon drum integrity.GoodPoorSecondary carbon drum integrity.SoodPoorSecondary carbon drum integrity.SoodPoorSecondary carbon drum integrity.SoodPoorPolishing drum rotated to secondary?YesNoPolishing carbon drum integrity.SoodPoorPolishing carbon drum integrity.GoodPoorPolishing carbon drum pressure.XPoiPolishing carbon drum pressure.XPoiPolishing carbon drum pressure.YesNoPolishing carbon primary drum?YesNoPipe integrity at creek.PoorYesPipe integrity at			
Flow meter operational? Yes No Transfer pump flow rate. X × 3 3 GPM Totalizer reading (cumulative volume). X × 3 3 GPM Water filters changed? Yes No Filter unit pressure (arrival/departure) 35 / 19 PSI Carbon Treatment Drums Poor Poor Primary carbon drum integrity. Yes No Primary carbon drum rotated to Yes No New carbon placed in primary drum? Yes No Secondary carbon drum integrity. Good Poor Secondary carbon drum leaks? Yes No Polishing carbon drum integrity. Good Poor Secondary carbon drum integrity. Good Poor Polishing carbon drum integrity. Good Poor Polishing carbon drum pressure. A PSI Polishing carbon drum pressure. Poor	Pump operational?	Yes	No
Transfer pump flow rate. Totalizer reading (cumulative volume). Water filters changed? Filter unit pressure (arrival/departure)Sign 3 Sign 3 S	Pump integrity.	Good	Poor
Totalizer reading (cumulative volume).\$36/8.1GallonsWater filters changed?YesNoFilter unit pressure (arrival/departure)35 / 9PSICarbon Treatment DrumsSoodPoorPrimary carbon drum integrity.YesNoPrimary carbon drum pressure.YesNoPrimary carbon drum notated toYesNoNew carbon placed in primary drum?YesNoSecondary carbon drum integrity.SoodPoorSecondary carbon drum integrity.SoodPoorSecondary carbon drum integrity.SoodPoorSecondary carbon drum integrity.SoodPoorSecondary carbon drum integrity.YesNoSecondary carbon drum integrity.YesNoPolishing drum rotated to secondary?YesNoPolishing carbon drum integrity.YesNoPolishing carbon drum integrity.YesNoPolishing carbon drum pressure.XPSIPolishing carbon drum pressure.YesNoPolishing carbon drum pressure.YesNoPipe integrity at creek.PoorPoorPipe integrity at creek.YesNo<	Flow meter operational?	Yes	No
Water filters changed? Yes No Filter unit pressure (arrival/departure) 35779 PSI Carbon Treatment Drums Good Poor Primary carbon drum integrity. Good Poor Primary carbon drum pressure. 5 PSI Primary carbon drum rotated to Yes No New carbon placed in primary drum? Yes No Secondary carbon drum integrity. Good Poor Secondary carbon drum integrity. Good Poor Secondary carbon drum pressure. S PSI Secondary carbon drum integrity. Good Poor Polishing carbon drum integrity. Yes No Polishing carbon drum pressure. Yes No Pipe integrity in shed. Poor	Transfer pump flow rate.		GPM
Water filters changed? Yes No Filter unit pressure (arrival/departure) 35779 PSI Carbon Treatment Drums Good Poor Primary carbon drum integrity. Good Poor Primary carbon drum pressure. 5 PSI Primary carbon drum rotated to Yes No New carbon placed in primary drum? Yes No Secondary carbon drum integrity. Good Poor Secondary carbon drum integrity. Good Poor Secondary carbon drum pressure. S PSI Secondary carbon drum integrity. Good Poor Polishing carbon drum integrity. Yes No Polishing carbon drum pressure. Yes No Pipe integrity in shed. Poor	Totalizer reading (cumulative volume).	836181	Gallons
Carbon Treatment Drums Poor Primary carbon drum integrity. Yes Primary carbon drum pressure. S Primary carbon drum pressure. S Primary carbon drum notated to Yes New carbon placed in primary drum? Yes Secondary carbon drum notated to Yes New carbon placed in primary drum? Yes Secondary carbon drum integrity. Good Secondary carbon drum integrity. Good Secondary carbon drum pressure. S Polishing drum rotated to secondary? Yes New carbon placed in secondary drum? Yes Polishing carbon drum integrity. Poor Polishing carbon drum pressure. Yes Poir hegrity at catch basin. Poor	Water filters changed?	Yes	No
Primary carbon drum integrity.GoodPoorPrimary carbon drum pessure.YesNoPrimary carbon drum pressure.Secondary carbon drum rotated toYesNew carbon placed in primary drum?YesNoSecondary carbon drum integrity.GoodPoorSecondary carbon drum integrity.GoodPoorSecondary carbon drum integrity.GoodPoorSecondary carbon drum integrity.GoodPoorSecondary carbon drum pressure.YesNoSecondary carbon drum pressure.YesNoSecondary carbon nemoved for disposal?YesNoPolishing drum rotated to secondary?YesNoNew carbon placed in secondary drum?YesNoPolishing carbon drum integrity.GoodPoorPolishing carbon drum pressure.YesNoPolishing carbon drum pressure.YesNoPolishing carbon removed for disposal?YesNoNew carbon primary drum?YesNoDischarge PipingYesNoPipe integrity at catch basin.PoorPoorPipe at creek clear?YesNoPipe integrity at creek.YesNoPipe at creek clear?YesNoShed ventilation acceptable?YesNoShed ventilation shed integrity.GoodPoorShed ventilation acceptable?YesNoSpill evidence?YesNoElectrical and HeatingYesNoElectric control	Filter unit pressure (arrival/departure)	35/9	PSI
Primary carbon drum leaks? Yes No Primary carbon drum pressure. 5 PSI Primary carbon removed for disposal? Yes No Secondary carbon drum rotated to Yes No New carbon placed in primary drum? Yes No Secondary carbon drum integrity. Good Poor Secondary carbon drum pressure. Secondary carbon drum pressure. PSI Secondary carbon drum pressure. Yes No Secondary carbon nemoved for disposal? Yes No Polishing drum rotated to secondary? Yes No New carbon placed in secondary drum? Yes No Polishing carbon drum integrity. Good Poor Polishing carbon drum pressure. Yes No Pipe integrity at catch basin. Poor No Pipe integrity at catch basin. Poor Poor P	Carbon Treatment Drums		
Primary carbon drum pressure.SPSIPrimary carbon removed for disposal?YesNoSecondary carbon drum rotated toYesNoNew carbon placed in primary drum?YesNoSecondary carbon drum integrity.GoodPoorSecondary carbon drum leaks?YesNoSecondary carbon drum neaks?YesNoSecondary carbon drum pressure.SPSISecondary carbon drum pressure.YesNoSecondary carbon drum pressure.YesNoPolishing drum rotated to secondary?YesNoPolishing carbon drum integrity.YesNoPolishing carbon drum integrity.YesNoPolishing carbon drum pressure.YesNoPolishing carbon drum neaks?YesNoPolishing carbon drum pressure.YesNoPolishing carbon drum pressure.YesNoPointegrity at catch basin.PoorPipe integrity at catch basin.PoorPipe integrity at creek.PoorPipe at creek clear?YesNoYesShed ventilation shed integrity.GoodShed ventilation shed integrity.YesShed ventilation acceptable?YesNoYesSpill evidence?Yes <tr< td=""><td>Primary carbon drum integrity.</td><td>Good</td><td>Poor</td></tr<>	Primary carbon drum integrity.	Good	Poor
Primary carbon drum pressure.SPSIPrimary carbon removed for disposal?YesNoSecondary carbon drum rotated toYesNoNew carbon placed in primary drum?YesNoSecondary carbon drum integrity.GoodPoorSecondary carbon drum leaks?YesNoSecondary carbon drum neaks?YesNoSecondary carbon drum pressure.SPSISecondary carbon drum pressure.YesNoSecondary carbon drum pressure.YesNoPolishing drum rotated to secondary?YesNoPolishing carbon drum integrity.YesNoPolishing carbon drum integrity.YesNoPolishing carbon drum pressure.YesNoPolishing carbon drum neaks?YesNoPolishing carbon drum pressure.YesNoPolishing carbon drum pressure.YesNoPointegrity at catch basin.PoorPipe integrity at catch basin.PoorPipe integrity at creek.PoorPipe at creek clear?YesNoYesShed ventilation shed integrity.GoodShed ventilation shed integrity.YesShed ventilation acceptable?YesNoYesSpill evidence?Yes <tr< td=""><td>Primary carbon drum leaks?</td><td>Yes</td><td>NO</td></tr<>	Primary carbon drum leaks?	Yes	NO
Secondary carbon drum rotated to New carbon placed in primary drum?YesNoSecondary carbon drum integrity. Secondary carbon drum pressure. Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?YesNoPolishing carbon drum integrity. Polishing carbon drum neaks? Polishing carbon drum neaks? Polishing carbon drum integrity. Polishing carbon drum neaks? Polishing carbon drum pressure. Polishing carbon primary drum?Poor YesPoor NoPolishing carbon drum integrity. Polishing carbon drum pressure. Polishing carbon drum pressure. Polishing carbon primary drum?Poor YesPoor NoDischarge Piping Pipe integrity at catch basin. Pipe at creek clear?Poor YesPoor YesNoMiscellaneousWiscellaneousPoor YesNoBuilding and Site Repairs/work needed? Spill evidence?YesNoElectrical and Heating Electric controls operationalYesNo	NR/	5	PSI
New carbon placed in primary drum?YesNoSecondary carbon drum integrity.GoodPoorSecondary carbon drum pressure.YesNoSecondary carbon drum pressure.YesNoPolishing drum rotated to secondary?YesNoPolishing carbon placed in secondary drum?YesNoPolishing carbon drum integrity.GoodPoorPolishing carbon drum integrity.YesNoPolishing carbon drum neaks?YesNoPolishing carbon drum neaks?YesNoPolishing carbon drum neaks?YesNoPolishing carbon drum neaks?YesNoPolishing carbon drum pressure.XPSIPolishing carbon primary drum?YesNoNew carbon primary drum?YesNoDischarge PipingYesNoPipe integrity at catch basin.GoodPoorPipe at creek clear?YesNoPipe at creek clear?YesNoShed ventilation acceptable?YesNoShed ventilation acceptable?YesNoSpill evidence?YesNoElectrical and Heating Electric controls operationalYesNo	Primary carbon removed for disposal?	Yes	(No)
Secondary carbon drum integrity. Good Poor Secondary carbon drum pressure. Secondary carbon removed for disposal? Yes No Polishing drum rotated to secondary? Yes No Polishing carbon drum integrity. Good Poor Polishing carbon drum integrity. Yes No Polishing carbon drum integrity. Yes No Polishing carbon drum integrity. Yes No Polishing carbon drum neaks? Yes No Polishing carbon drum pressure. X Poor Polishing carbon drum pressure. X PSI Polishing carbon removed for disposal? Yes No Polishing carbon primary drum? Yes No New carbon primary drum? Yes No Discharge Piping Yes No Pipe integrity at catch basin. Poor Poor Pipe at creek clear? Yes No Pipe at creek clear? Yes No Shed ventilation acceptable? Yes No Repairs/work needed? Yes No Spill evidence? Yes	Secondary carbon drum rotated to	Yes	NO
Secondary carbon drum leaks? Yes No Secondary carbon drum pressure. Secondary carbon removed for disposal? Yes No Polishing drum rotated to secondary? Yes No Polishing carbon placed in secondary drum? Yes No Polishing carbon drum integrity. Cood Poor Polishing carbon drum leaks? Yes No Polishing carbon drum leaks? Yes No Polishing carbon drum pressure. Z PSI Polishing carbon drum pressure. Z PSI Polishing carbon removed for disposal? Yes No New carbon primary drum? Yes No Discharge Piping Yes No Pipe integrity at catch basin. Good Poor Pipe integrity at creek. Good Poor Pipe at creek clear? Yes No Miscellaneous Yes No Building and Site Yes No Repairs/work needed? Yes No Spill evidence? Yes No Spill evidence? Yes No	New carbon placed in primary drum?	Yes	No
Secondary carbon drum leaks? Yes No Secondary carbon drum pressure. Secondary carbon removed for disposal? Yes No Polishing drum rotated to secondary? Yes No Polishing carbon placed in secondary drum? Yes No Polishing carbon drum integrity. Cood Poor Polishing carbon drum leaks? Yes No Polishing carbon drum leaks? Yes No Polishing carbon drum pressure. Z PSI Polishing carbon drum pressure. Z PSI Polishing carbon removed for disposal? Yes No New carbon primary drum? Yes No Discharge Piping Yes No Pipe integrity at catch basin. Good Poor Pipe integrity at creek. Good Poor Pipe at creek clear? Yes No Miscellaneous Yes No Building and Site Yes No Repairs/work needed? Yes No Spill evidence? Yes No Spill evidence? Yes No	Secondary carbon drum integrity.	(Good)	Poor
Secondary carbon removed for disposal?YesNoPolishing drum rotated to secondary?YesNoNew carbon placed in secondary drum?YesNoPolishing carbon drum integrity.GoodPoorPolishing carbon drum leaks?YesNoPolishing carbon drum pressure.XPSIPolishing carbon removed for disposal?YesNoNew carbon primary drum?YesNoDischarge PipingYesNoPipe integrity at catch basin.GoodPoorPipe integrity at creek.GoodPoorPipe at creek clear?YesNoBuilding and SiteYesNoRepairs/work needed?YesNoSpill evidence?YesNoElectrical and Heating Electric controls operationalYesNo	Secondary carbon drum leaks?	Yes	No
Polishing drum rotated to secondary? Yes No New carbon placed in secondary drum? Yes No Polishing carbon drum integrity. Good Poor Polishing carbon drum leaks? Yes No Polishing carbon drum pressure. X PSI Polishing carbon removed for disposal? Yes No New carbon primary drum? Yes No Discharge Piping Yes No Pipe integrity in shed. Good Poor Pipe integrity at catch basin. Pipe integrity at creek. Poor Pipe at creek clear? No Poor Miscellaneous Yes No Building and Site Good Poor Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No Electric controls operational Yes No	Secondary carbon drum pressure.	3	PSI
New carbon placed in secondary drum? Yes No Polishing carbon drum integrity. Yes No Polishing carbon drum leaks? Yes No Polishing carbon drum pressure. X PSI Polishing carbon drum pressure. X PSI Polishing carbon removed for disposal? Yes No New carbon primary drum? Yes No Discharge Piping Yes No Pipe integrity in shed. Good Poor Pipe integrity at catch basin. Pipe integrity at creek. Poor Pipe at creek clear? Yes No Miscellaneous Good Poor Building and Site Good Poor Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No Electric controls operational Yes No	Secondary carbon removed for disposal?	Yes	NO
Polishing carbon drum integrity. Image: Constraint of the system of	Polishing drum rotated to secondary?	Yes	(No)
Polishing carbon drum leaks? Yes No Polishing carbon drum pressure. X PSI Polishing carbon removed for disposal? Yes No New carbon primary drum? Yes No Discharge Piping Yes No Pipe integrity in shed. Good Poor Pipe integrity at catch basin. Pipe integrity at creek. Poor Pipe at creek clear? Yes No Miscellaneous Good Poor Building and Site Good Poor Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No	New carbon placed in secondary drum?	Yes	No
Polishing carbon drum pressure. Image: Constraint of the system PSI Polishing carbon removed for disposal? Yes No New carbon primary drum? Yes No Discharge Piping Yes No Pipe integrity in shed. Good Poor Pipe integrity at catch basin. Poor Poor Pipe integrity at creek. Good Poor Pipe integrity at creek. Good Poor Pipe integrity at creek. Good Poor Pipe at creek clear? Yes No Miscellaneous Sood Poor Building and Site Good Poor Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No	Polishing carbon drum integrity.	Good	Poor
Polishing carbon removed for disposal? Yes New carbon primary drum? Yes Discharge Piping Yes Pipe integrity in shed. Good Pipe integrity at catch basin. Poor Pipe integrity at catch basin clear? No Pipe integrity at creek. Good Pipe at creek clear? Yes Miscellaneous No Building and Site Poor Remediation shed integrity. Good Poor Shed ventilation acceptable? Yes No Spill evidence? Yes No Electrical and Heating Yes No Electric controls operational Yes No	Polishing carbon drum leaks?	Yes	(No)
New carbon primary drum? Yes Discharge Piping Pipe integrity in shed. Pipe integrity in shed. Good Pipe integrity at catch basin. Poor Pipe integrity at catch basin clear? Yes Pipe integrity at creek. Poor Pipe at creek clear? Yes Miscellaneous No Building and Site Good Remediation shed integrity. Good Shed ventilation acceptable? Yes No Yes Spill evidence? Yes Electrical and Heating Yes Electric controls operational Yes	Polishing carbon drum pressure.	2	PSI
Discharge Piping Pipe integrity in shed. Good Poor 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 Ves No Building and Site Good Poor Remediation shed integrity. Good Poor Shed ventilation acceptable? Yes No Spill evidence? Yes No Electrical and Heating Yes No	Polishing carbon removed for disposal?	Yes	(No)
Pipe integrity in shed. Good Poor Pipe integrity at catch basin. Poor 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 Spill evidence? Yes No Electrical and Heating Kes No	New carbon primary drum?	Yes	No
Pipe integrity at catch basin. Good Poor Pipe at catch basin clear? 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 Spill evidence? Yes No	Discharge Piping		
Pipe at catch basin clear? Yes No Pipe integrity at creek. Good Poor Pipe at creek clear? Yes No Miscellaneous Building and Site Poor Remediation shed integrity. Good Poor Shed ventilation acceptable? Yes No Spill evidence? Yes No Electrical and Heating Yes No Electric controls operational Yes No	Pipe integrity in shed.	Good	Poor
Pipe integrity at creek. Good Poor Pipe at creek clear? Yes No Miscellaneous Building and Site Poor Remediation shed integrity. Good Poor Shed ventilation acceptable? Yes No Spill evidence? Yes No Electrical and Heating Yes No	Pipe integrity at catch basin.	Good	Poor
Pipe at creek clear? Yes No Miscellaneous Building and Site Poor Remediation shed integrity. Good Poor Shed ventilation acceptable? Yes No Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No	Pipe at catch basin clear?	Yes	No
Miscellaneous Building and Site Remediation shed integrity. Shed ventilation acceptable? Yes Repairs/work needed? Spill evidence? Yes Electrical and Heating Electric controls operational	Pipe integrity at creek.	Good	Poor
Building and Site Good Poor Remediation shed integrity. Good Poor Shed ventilation acceptable? Yes No Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No Electric controls operational Yes No	Pipe at creek clear?	(Yes)	No
Building and Site Good Poor Remediation shed integrity. Good Poor Shed ventilation acceptable? Yes No Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No Electric controls operational Yes No			
Remediation shed integrity. Good Poor Shed ventilation acceptable? Yes No Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No			
Shed ventilation acceptable? Yes No Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No	a strange and st		_
Repairs/work needed? Yes No Spill evidence? Yes No Electrical and Heating Yes No			
Spill evidence? Yes No Electrical and Heating Yes No	 Statement of the statement of the statement		Carrier Contraction
Electrical and Heating Electric controls operational			
Electric controls operational Yes No	Spill evidence?	Yes	No
	S		
Heater operational (Yes) No		Yes	V 1015 I
	Heater operational	(Yes)	No

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good->	Poor
Repairs needed to vaults?	Yes	No
Air Compressor	0	
Compressor operational?	Yes	No
Compressor hours.	9867-1	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1350	
Pre-Carbon Sample Time	1593	
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
	Yes	No
Recovery and Disposal	Yes	No
Recovery and Disposal Recovery from DNAPL Drum		
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	Yes 2 2 0	Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	220	Gallons Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u>		Gallons Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	220	Gallons Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>	220	Gallons Gallons Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	220	Gallons Gallons Gallons Gallons Gallons Drums
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	220	Gallons Gallons Gallons Gallons Gallons Drums Drums
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>DNAPL/water to disposal drum.</u> <u>Product. Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	220	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	220	Gallons Gallons Gallons Gallons

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	2	Arrow
Refill control setting (departure)		Arrow
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity.	Yes Yes Good	No No 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

(Yes)

0

10

6

Yes

Good

Yes

No

PSI

PSI

PSI

(No)

Arrow

Arrow

Poor

(No)

Feet

No

No

Poor NO Poor Poor

No No No

LNAPL/Groundwater System	
Operational upon arrival?	
LNAPL pump pressure (arrival)	
LNAPL pump pressure (departure)	
Bubbler tube operating pressure.	
Pneumatic settings adjusted?	
Discharge control setting (departure)	
Refill control setting (departure)	

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

on maler beparator	and the second s
Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	Yes
Separator cleaned?	Yes

Technician: <u>6 Miller</u> Date: <u>3-4-11</u> Date:

Table 4-1

Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal?

Secondary carbon drum rotated to New carbon placed in primary drum?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal?

Polishing drum rotated to secondary?

Polishing carbon drum integrity.

Polishing carbon drum pressure.

Polishing carbon drum leaks?

New carbon primary drum?

Discharge Piping

New carbon placed in secondary drum?

Polishing carbon removed for disposal?

LNAPL/Groundwater System - (Continued) Transfer Pump and Piping		
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.50	GPM
Totalizer reading (cumulative volume).	11743,7	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	10	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor

Good	Poor
Yes	(No)
5	PSI
Yes	No
Yes	No
Yes	NO

Good	Poor
Yes	(NO)
3	PSI
Yes	NO
Yes	(No')
Yes	(No)

Poor
NO
PSI
(No)
(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

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		TOTAL STATE
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	9876.8	Hours
Oil level checked?	(Yes)	No
Oil level changed?	Yes	(No)
Compressor trap operating?	(Yes)	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	(NO)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery and Disposal Recovery from DNAPL Drum		
	2	Gallons
Recovery from DNAPL Drum	20	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	2 0 40	
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	2 0 40	Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	2 0 40	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	2 0 40	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	20 40 6	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	2 0 40 6	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	2 0 40 0 6	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	20 40 6	Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	20 40 55	Gallons Gallons Gallons Gallons Drums Drums Drums

Notes:

DNAPL System		
Operational upon arrival?	Cte.P	No
DNAPL pump pressure (arrival)	19	PSI
DNAPL pump pressure (departure)	19	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	iL	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
		100 m

Yes	No
0	PSI
10	PSI
7	PSI
(Yes)	No
11	Аптоw
1	Arrow
	0 10 7

Poor NO

Feet

(Good)
Yes

Oil/Water Separator Water high level shut-off operational? (Yes) No Red warning light operational? Yes No Separator vessel integrity. Good Poor Yes (No) Separator cover and seal integrity. Good Poor Decant valve integrity. Good Poor LNAPL in separator? (No) Yes Separator needs cleaning? Yes (No) Yes (No)

Technician: BM: 11er 3-9-11 Date:

LNAPL Pump and Piping LNAPL piping integrity.

LNAPL pump cleaned? LNAPL top of pump depth.

Leaks present?

Separator cleaned?

Table 4-1

LNAPL/Groundwater System - (Continue	ed)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	2.89	GPM
Totalizer reading (cumulative volume).	102902	Gallons
Water filters changed?	Yes	(No)
Filter unit pressure (arrival/departure)	15 22	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(NO)
Primary carbon drum pressure.	6	PSI
Primary carbon removed for disposal?	Yes	(No)
Secondary carbon drum rotated to	Yes	(No>
New carbon placed in primary drum?	Yes	(No)
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(NO)
Secondary carbon drum pressure.	-5	PSI
Secondary carbon removed for disposal?	Yes	(NO)
Polishing drum rotated to secondary?	Yes	(NO)
New carbon placed in secondary drum?	Yes	(No-
Polishing carbon drum integrity.	(Good)	Poor
Polishing carbon drum leaks?	Yes	(NO)
Polishing carbon drum pressure.	ź	PSI
Polishing carbon removed for disposal?	Yes	CN03
New carbon primary drum?	Yes	(NO)
		10 10 10 10
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

0.00000	
15 22	PSI
Good	Poor
Yes	(NO)
6	PSI
Yes	(No)
Yes	(No)
	and a second sec

(Good)	Poor
Yes	(No)
-3	PSI
Yes	(NO)
Yes	(NO)
Yes	(No-

Poor
(NO)
PSI
CN03
(NO)

Good	Poor
Good	Poor
(Yes)	No
Good	Poor
(Yes')	No

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

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		_
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	(No)
		0
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	4880.2	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 compled?		
Product sampled?	Yes	No
	Yes	No
	Yes	No
Recovery and Disposal Recovery from DNAPL Drum	Yes	No
Recovery and Disposal	Yes	No
Recovery and Disposal Recovery from DNAPL Drum	Yes	
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	Yes O O O O	Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	Yes B B B B S	Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	Yes B b 5	Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	Yes B 55	Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u>	Yes	Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	Yes	Gallons Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	Yes	Gallons Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	Yes 8 65 () () () () ()	Gallons Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>	Yes	Gallons Gallons Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Gallons Drums
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Gallons Drums Drums
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	> PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	ú	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.	105	Feet
LNAPL/Groundwater System	and the second sec	-
	(V.)	No
Operational upon arrival?	Tes-	No
Operational upon arrival? LNAPL pump pressure (arrival)	(Tes) 12 12	PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure)	12	PSI PSI
LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?	12	PSI PSI PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?	12	PSI PSI PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure.	12 12 6 Yes	PSI PSI PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure)	12 12 6 Yes	PSI PSI PSI Arrow
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i>	12 6 Yes N	PSI PSI No Arrow
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity.	12 G Yes K N	PSI PSI NO Arrow Arrow
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned?	12 6 Yes N	PSI PSI NO Arrow Arrow Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity.	12 G Yes K N	PSI PSI NO Arrow Arrow
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i>	12 6 Yes N Yes	PSI PSI No Arrow Arrow Poor Feet
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational?	12 6 Yes N Yes Yes	PSI PSI No Arrow Arrow Poor Feet No
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational?	Yes Yes Yes Yes Yes	PSI PSI No Arrow Arrow Poor Feet No No
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Dil/Water Separator</i> Water high level shut-off operational? Red warning light operational?	Yes Yes Yes Yes Cood Good Yes	PSI PSI No Arrow Arrow Poor Feet No No No Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	Yes Yes Yes Yes Yes	PSI PSI No Arrow Arrow Poor Feet No No

over and seal integrity. Good Poor Good Poor No Yes No Separator needs cleaning? Yes Yes No T.Palmer

Technician: 3-14-11

Decant valve integrity.

LNAPL in separator?

Separator cleaned?

Date:_

Table 4-1

LNAPL/Groundwater System - (Continu	ued)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.26	GPM
Totalizer reading (cumulative volume).	108303	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)	19	PSI
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Primary carbon removed for disposal?	Yes	(Ng)
Secondary carbon drum rotated to	Yes	NO
New carbon placed in primary drum?	Yes	NO
Secondary carbon drum integrity.	(Good)	Poor
Secondary carbon drum leaks?	Yes	(No)
Secondary carbon drum pressure.	1.5	PSI
Secondary carbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	NO
New carbon placed in secondary drum?	Yes	NO
New carbon placed in secondary druin?		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	(No)
Polishing carbon drum pressure.	0.5	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon primary drum?	Yes	No
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous	1	
Building and Site		D
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	NO
Repairs/work needed?	Yes	No
	I Vee	(No)
Spill evidence?	Yes	
Electrical and Heating	Yes	
	Yes	No

Site Visit Checklist/Data Sheet

No No Hours No No No No No
No No Hours No No No No
No Hours No No No No
Hours No No No No
Hours No No No No
No No No
No No
No No
No
No
No
0
Quarterly
No
Gallons
Gallons
Gallons
22
Gallons
Gallons
Drums
Drums
Drums
Drums
No
No

Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	K	Arrow
Green warning light operational?	Yes	No
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
	Yes	No
DNAPL pump cleaned?		

No

PSI

PSI PSI

No

Arrow

Arrow

Poor No Feet

No No Poor (No

Poor

Poor

No

No

No

Yes

11

6 Yes

1

Good

Yes

4

LNAPL/Groundwater System	
Operational upon arrival?	
LNAPL pump pressure (arrival)	
LNAPL pump pressure (departure)	
Bubbler tube operating pressure.	
Pneumatic settings adjusted?	
Discharge control setting (departure)	
Refill control setting (departure)	

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	Yes
Separator cleaned?	Yes

3-21-11

Date:_

Table 4-1

LNAPL/Groundwater System - (Continu	ed)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.55	GPM
Totalizer reading (cumulative volume).	115535	Gallon
Water filters changed?	Yés	No
Filter unit pressure (arrival/departure)	37 9	PSI
Carbon Treatment Drums	1940	
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	NO
Primary carbon drum pressure.	6	PSI
Primary carbon removed for disposal?	Yes	No
Secondary carbon drum rotated to	Yes	No
New carbon placed in primary drum?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	25	PSI
Secondary carbon removed for disposal?	Yes	NO
Polishing drum rotated to secondary?	Yes	No
New carbon placed in secondary drum?	Yes	No
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon primary drum?	Yes	NO
Discharge Piping		
Pipe integrity in shed.	(Good)	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	(Yes)	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Yes	No
Miscellaneous Building and Site		
		Barriel
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

Site Visit Checklist/Data Sheet

Access Vaults Overall vault integrity.	0	<u> </u>
Repairs needed to vaults?	Good	Poor
Repairs needed to vauits?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	9895.2	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? Product sampled?	Monthly Yes	Quarteri No
Recovery and Disposal		
Recovery and Disposal Recovery from DNAPL Drum	14. 	
Recovery from DNAPL Drum		Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.	0	
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons Gallons
	0 0 25	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0 0 25	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0 0 25	
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0 25 0,5	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0 0 25 0 0,5	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0 0 25 0,5	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0 0 25 0 0,5	Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0 25 0,5	Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	0 25 0,5	Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	0 25 0,5	Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums Drums Drums Drums

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	N	Arrow
Refill control setting (departure)	K	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

Operational upon arrival?	Yes	NO
LNAPL pump pressure (arrival)	17	PSI
LNAPL pump pressure (departure)	12	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	~	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.		Feet
Oil/Water Separator		
Water high level shut-off operational?	Yes	No

water high lever shat on operational.	- Y.J	1 110
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	Nõ
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	(No)

Date:

3-28-11

Table 4-1

LNAPL/Groundwater System - (Continu	PL/Groundwater System - (Continued)	
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	1.50	GPM
Totalizer reading (cumulative volume).	128045	Gallons
Water filters changed?	(Yes)	No
Filter unit pressure (arrival/departure)	3819	PSI

(Good)

Yes

6

Yes

Yes

Yes

Good

(Yes)

Yes

Yes

Yes

Good

Yes

Yes Yes

15

Poor (No)

PSI

(No) <No'

(No)

Poor (No)

PSI

<No.

(No>

(No >

Poor

(NOS

PSI

No

(No)

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to New carbon placed in primary drum?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon primary drum?

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
<u>Electrical and Heating</u> Electric controls operational Heater operational	(Yes)	No No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults	Cont	Deed
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	9905.3	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	1215	
Pre-Carbon Sample Time	1220	
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		I - · · - · · · · · · · · · · · · · · ·
Pure DNAPL to disposal drum.	2	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	40	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	0	Drums
PPE/Solids drums	1	Drums
LNAPL drums	0	Drums
	Yes	No
Drums labeled?		

Notes: Shut Down 3-28-11 To Start Filter install Startup 3-29-11 4 Big Blue Silters.

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	I	Arrow
Refill control setting (departure)	K	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
DNAPI, pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	12	PSI
LNAPL pump pressure (departure)	12	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
5° 1	10	

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Refill control setting (departure)

Oil/Water Separator

Our water Separator	
Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	Yes
Separator cleaned?	Yes
echnician:BM:11-	er
Pate: 4-6-11	

Technician:

Date:

Yes	No
18	PSI
18	PSI
Yes	(No)
N	Arrow
6	Arrow
(Yes)	No
Yes	No
Yes Yes	No No
	No Poor
Yes	No
Good Yes	No Poor
Yes Good Yes Good	No Poor No Poor
Yes Good Yes	No Poor

Discharge control setting (departure) Arrow Arrow

Yes	No
	Feet

Yes	No
Yes	No
Good	Poor
Yes	No
Good	Poor
(Good)	Poor
Yes	No
Yes	No
Yes	No

Table 4-1

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	GPM
Totalizer reading (cumulative volume).	142333	Gallons
Water filters changed?	Yes	NO
Filter unit pressure (arrival/departure)		PSI

(Good)

Yes 5

Yes

Yes

Yes

Good

Yes 3

Yes

Yes

Yes

Good

Yes

Yes

Yes

Poor (NO)

PSI

NO

NO No

Poor NO

PSI (No)

No (No)

Poor (No)

PSI

NO

NO

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to New carbon placed in primary drum?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon primary drum?

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	CNO
<u>Electrical and Heating</u> Electric controls operational Heater operational	Yes	No No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		4
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	99149	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		
	A described as	Quarterly
Sampling event?	Monthly	
Sampling event? Product sampled?	Yes	No
Product sampled?		
Product sampled? Recovery and Disposal		
Product sampled? Recovery and Disposal Recovery from DNAPL Drum		No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		No Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		No Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		No Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	Yes O J O	No Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	Yes O J O	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	Yes O J O	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	Yes O J O	No Gallons Gallons Gallons Gallons Gallons Drums
Product sampled? Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	Yes	No Gallons Gallons Gallons Gallons Gallons Drums Drums
Product sampled? Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	Yes	No Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Product sampled? Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums		No Gallons Gallons Gallons Gallons Gallons Drums Drums

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	K	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 cleaned? DNAPL top of pump depth.	Yes	Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	ic	PSI PSI
Bubbler tube operating pressure.	Yes	No
Pneumatic settings adjusted? Discharge control setting (departure)	Tes	Arrow
Refill control setting (departure)		
Nerti control setting (departure)		Агтоw
LNAPL Pump and Piping		-
LNAPL piping integrity.	Good 3	Poor
LNAPL pump cleaned?	Yes	No

LNAPL top of pump depth.

Oil/Water Separator Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned?

Technician: <u>3 Miller</u> Date: <u>4</u>-11-11

Table 4-1

LNAPL/Groundwater System - (Continued) <u>Transfer Pump and Piping</u>		
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.44	GPM
Totalizer reading (cumulative volume).	150481	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)		PSI

Góod

Yes SiS

Yes

Yes

Yes

Good

Yes

Yes

Yes

Yes

(Good)

Yes

Yes

Yes

Poor

NO

PSI

No

(No)

SNO

Poor

PSI

(No3

(No)

Poor

No

PSI

No

No

(No')

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to New carbon placed in primary drum?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon primary drum?

Discharge Piping Pipe integrity in she

Feet

No

No

Poor

Poor

Poor

CNO

(No

(No)

Yes

Yes

Good

Yes

Good

Good

Yes

Yes

Yes

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

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

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)	<u></u>	
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	9920.8	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
	A damath to a	Quarterh
Sampling event?	Monthly	Quarteri
Sampling event? Product sampled?	Yes	No
	-	20034
Product sampled? Recovery and Disposal	-	20034
Product sampled? Recovery and Disposal	-	No
Product sampled? Recovery and Disposal	-	No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	-	No Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	-	the second
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	-	No Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	-	No Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	-	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	-	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	-	No Gallons Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	Yes O O O O O	No Gallons Gallons Gallons Gallons Gallons Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	-	No Gallons Gallons Gallons Gallons Gallons Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	Yes Ves	No Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum	Yes O O O O O	No Gallons Gallons Gallons Gallons Gallons Drums Drums

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	Nø
Discharge control setting (departure)	N	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	CNO
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

Yes	No
12	PSI
12	PSI
6	PSI
Yes	Nd
16	Arrow
V	Arrow
	122

Good

Yes

Poor

No

Feet

No

No

Poor (No)

Poor

Poor No

No

(No)

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operational? Yes Yes Red warning light operational? Good Separator vessel integrity. Yes Leaks present? Separator cover and seal integrity. Good Decant valve integrity. Good) LNAPL in separator? Yes Separator needs cleaning? Yes Separator cleaned? Yes T.Palmer

4-22-11

Technician:

Date:

Table 4-1

Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	324	GPM
Totalizer reading (cumulative volume).	17340	Gallons
Water filters changed?	Yes	No
Filter unit pressure (arrival/departure)		PSI

Good

Yes

6

Yes

Yes

Yes

Good

Yes 2

Yes

Yes

Yes

Good

Yes

05

Yes

Yes

Poor

NO

PSI (No)

No

(No)

Poor

NO

PSI

NO

No

(No)

Poor

(NO)

PSI

NO

(No)

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to New carbon placed in primary drum?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon primary drum?

Discharge Piping

Good	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No
	(Good) (Yes) (Good)

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

Site Visit Checklist/Data Sheet

Oil level changed? Compressor trap operating? Regulator operating?	Good Yes Yes T34-5 Yes	Poor No No
Repairs needed to vaults? Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating?	Yes Yes 134.5 (Yes)	No
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating?	Yes T34.3 (Yes)	No
Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating?	134.3 (Yes)	-
Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating?	134.3 (Yes)	-
Oil level checked? Oil level changed? Compressor trap operating? Regulator operating?	(Yes)	
Oil level changed? Compressor trap operating? Regulator operating?		Hours
Compressor trap operating? Regulator operating?		No
Regulator operating?	Yes	NO
	Yes	No
Ataliana andresian anneal O	Yes	No
Air lines performing properly?	Yes	No
A		
Sampling Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
	/onthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal	1	
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.		
and the first of the second statement of the second statem	Company of the local division of the local d	Gallons
energia (1997) se se esta constructione en esta constructione en esta constructione en esta constructione esta	5	Gallons
DNAPL/water to oil/water separator.	5	
DNAPL/water to oil/water separator.	5	
DNAPL/water to oil/water separator.	5	Gallons
DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	5	Gallons
DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	5	Gallons
DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	5	Gallons Gallons Gallons
DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Drums
DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	15 11 -0-0	Gallons Gallons Gallons Drums Drums
DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	1	Gallons Gallons Gallons Drums Drums Drums



DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	18	PSI
DNAPI. pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	K	Агтоw
Refill control setting (departure)	×	Arrow
DNAPL Drum	2	
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)	12	PSI

- For a second sec		1. (1. (1. (1. (1. (1. (1. (1. (1. (1. (
LNAPL pump pressure (arrival)	12	PSI
LNAPL pump pressure (departure)	12	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	X	Апоw
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor

Yes

NO

Feet

No

No

Poor (No)

Poor

Poor No,

(No (No

LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operational?	Yes
Red warning light operational?	Yes
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	Yes
Separator cleaned?	Yes
echnician: T.Palmw	
4-28-11	

Technician:

Date:

Table 4-1

LNAPL/Groundwater System - (Continu	ied)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.18	GPM
Totalizer reading (cumulative volume).	190267	Gallons
Water filters changed?	Yes	(No)
Filter unit pressure (arrival/departure)		PSI

Good

Yes

6

Yes

Yes

Yes

(Good)

Yes

Yes

Yes

Yes

(Good)

Yes

0.5

Yes

Yes

Poor

No

PSI

No

No

(No)

Poor

No PSI

(No)

(No) No

Poor

No

PSI

No

NO

Poor

Poor No

Poor

No

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary carbon removed for disposal? Secondary carbon drum rotated to New carbon placed in primary drum?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary? New carbon placed in secondary drum?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon primary drum?

Discharge Piping	
Pipe integrity in shed.	Good
Pipe integrity at catch basin.	Good
Pipe at catch basin clear?	Yes
Pipe integrity at creek.	Good
Pipe at creek clear?	Yes

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

Site Visit Checklist/Data Sheet

Access Vaults Overall vault integrity. Repairs needed to vaults? Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time Pre-Carbon Sample Time	Good Yes Yes Yes Yes Yes (Tes)	Poor No Hours No No No No No No
Repairs needed to vaults? Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	Yes Yes Yes Yes Yes Yes Yes	No Hours No No No No No
Air Compressor Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	Yes Yes Yes Yes Yes	No Hours No No No No
Compressor operational? Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	Yes Yes Yes Yes Yes	Hours No No No
Compressor hours. Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	Yes Yes Yes Yes Yes	Hours No No No
Oil level checked? Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	Yes Yes Yes Yes Yes	No No No
Oil level changed? Compressor trap operating? Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	Yes (Yes) (Yes) (Yes)	No No
Compressor trap operating? Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	(Yes) (Yes) (Yes)	No No
Regulator operating? Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	(Yes) (Yes)	No
Air lines performing properly? Sampling Sampling Performed? Post Carbon Sample Time	Tes	- HARDEN
Sampling Sampling Performed? Post Carbon Sample Time		No
Sampling Performed? Post Carbon Sample Time	I v	
Sampling Performed? Post Carbon Sample Time	1 <u>v</u>	
Post Carbon Sample Time	Yes	(No)
a contract and the state of the		1
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		ana da s
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	-	Gallons
DNAPL/water to disposal drum.	0.25	Gallons
DNAPL/water to oil/water separator.	15	Gallons
Recovery from Oil/Water Separator		26
Pure DNAPL to disposal drum.		Gallons
DNAPL/water to disposal drum.	0.25	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	0	Drums
		Drums
PPF/Solids drums		
PPE/Solids drums		i urums
LNAPL drums	Yes	Drums
	(Yes)	No No

Operational upon arrival? DNAPL pump pressure (arrival) DNAPL pump pressure (departure) Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>DNAPL Drum</i> High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. <i>DNAPL Pump and Piping</i> DNAPL piping integrity.	Yes /K Yes Yes Good Yes Good	No PSI No Arrow Arrow No No Poor No Poor
DNAPL pump pressure (departure) Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL Pump and Piping	Yes Yes Yes Good Yes	PSI Arrow Arrow No No Poor No
Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL Pump and Piping	Yes Yes Yes Good Yes	No No No No No No
Discharge control setting (departure) Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL Pump and Piping	Yes Yes Good Yes	Arrow Arrow No No Poor No
Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL Pump and Piping	Yes Yes Good Yes	Arrow No No Poor No
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL Pump and Piping	Yes Yes Good Yes	No No Poor No
High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL Pump and Piping	Yes Good Yes	No Poor
Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL Pump and Piping	Yes Good Yes	No Poor
DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL Pump and Piping	Good Yes	Poor
Leaks present? Decant valve integrity. DNAPL Pump and Piping	Yes	No
Decant valve integrity. DNAPL Pump and Piping		
DNAPL Pump and Piping	Good	
	1972 Province	
L'INALL DIDITIS INTESTIC	Cont	Dec
	Good	Poor
DNAPL pump cleaned? DNAPL top of pump depth.	Yes	No
Divit E top of pump deput.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	12	PSI
LNAPL pump pressure (departure)	iz	PSI
Bubbler tube operating pressure.	6	CPSP
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	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

Table 4-1

LNAPL/Groundwater System - (Continue	ed)	
Transfer Pump and Piping	11	
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.70	GPM
Totalizer reading (cumulative volume).	207245	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	21	7
Filter unit 2 pressure @ Arrival (In /Out)	9	7
Filter unit 1 pressure @ Departure (In/Out)	21	7
Filter unit 2 pressure @ Departure (In/Out)	9	7
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	515	PSI
Secondary drum rotated to primary?	Yes	(No)
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	NO

2

Yes

Yes Good

Yes

1

Yes

Yes

PSI (No)

(No

Poor

(NO)

PSI ND

No

S Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

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)	Ne
Spill evidence?	Yes	No
Electrical and Heating	8723 d.M.	
Electric controls operational	(Yes)	No
Heater operational	(Yes)	No

Site Visit Checklist/Data Sheet

?

A.

Miscellaneous - (Continued) Access Vaults		
Overall vault integrity.	Good `	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	9950.8	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	NO
Compressor trap operating?	Ves	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes')	No
0	te de la serie de la	
Sampling Sampling Performed?	Yes	(No
Post Carbon Sample Time	100	INO
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	·O	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	Õ	Gallons
		Canolit
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	0	Drums
PPE/Solids drums		Drums
LNAPL drums		Drums
Drums labeled?	Yes	No
		No

Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	ih	Агтоw
DNAPL Drum		
High level shut off operational?	(Yes)	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	SVD
Decant valve integrity.	(Good)	Poor
	0000	100
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	< No
DNAPL top of pump depth.	-	Feet
and the second of the second		00000000
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Апоw
Refill control setting (departure)		Апоw
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
	Yes	NO
Leaks present?	Good	Poor
Separator cover and seal integrity.	and the second s	Poor
Separator cover and seal integrity. Decant valve integrity.	Good	
Separator cover and seal integrity. Decant valve integrity. NAPL in separator?	(Good) Yes	No
Separator cover and seal integrity. Decant valve integrity.		No

Table 4-1

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	7.63	GPM
Totalizer reading (cumulative volume).	215711	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	21	7,5
Filter unit 2 pressure @ Arrival (In /Out)	ĨĨ	7
Filter unit 1 pressure @ Departure (In/Out)	21	7.5
Filter unit 2 pressure @ Departure (In/Out)	- îl	4
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	5,5	PSI
Secondary drum rotated to primary?	Yes	(No)

Poor

NO

PSI (No)

No

Poor

No

PSI

No

(No)

Good)

Yes

Yes

Yes

Good

Yes

r

Yes

Yes

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Pipe

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

Building and Site	and the second	
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

Site Visit Checklist/Data Sheet

Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	9957.7	Hours
Oil level checked?	Ves	No
Oil level changed?	Yes	(Cold
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	(Yes)	No
Post Carbon Sample Time	0915	
Pre-Carbon Sample Time	0930	
[1] S.	Monthly	Quarterly
Sampling event? Product sampled? Recovery and Disposal	<u>Monthly</u> Yes	
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum		
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallons
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons Gallons Gallons
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.		Gallons Gallons Gallons Gallons
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator		Gallons Gallons Gallons
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons Gallons Gallons
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	Yes 9 5 9 5 60 1 0	Gallons Gallons Gallons Gallons Gallons Gallons
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Gallons Gallons Drums Drums
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	Yes 9 5 9 5 60 1 0	Gallons Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PE/Solids drums NAPL drums	Yes 9 5 9 5 60 1 0 1 0 1	Gallons Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums
Sampling event? Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	Yes 9 5 9 5 60 1 0	Gallons Gallons Gallons Gallons Gallons Gallons Drums Drums Drums

Date:

5-12-11

Operational upon arrival? DNAPL pump pressure (arrival) DNAPL pump pressure (departure) Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational?	18 18 Yes Ves	PSI PSI Arrow Arrow
DNAPL pump pressure (departure) Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational?	Yes Yes	Arrow Arrow
Discharge control setting (departure) Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational?	Tes?	Arrow Arrow
Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational?		Апо
DNAPL Drum High level shut off operational? Green warning light operational?		
High level shut off operational? Green warning light operational?		
Green warning light operational?		3.7
	(Vec)	No
the second	100	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	THE
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)	L X	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	NO
LNAPL top of punip 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	(Nd)
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No)
echnician: BMiller		

Table 4-1

N.

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Ves	No
Transfer pump flow rate.	4.24	GPM
Totalizer reading (cumulative volume).	232256	Gallons
Water filters changed?	Yes	NO
Filter unit 1 pressure @ Arrival (In/Out)	24	7.5
Filter unit 2 pressure @ Arrival (In /Out)	21	7.5
Filter unit 1 pressure @ Departure (In/Out)	24	7.5
Filter unit 2 pressure @ Departure (In/Out)	21	7.5

Good Case

Yes

Good

Yes

Yes (Yes)

Good

Yes

Yes

Yes

Good

Good)

Yes

Good

Yes'

Poor NO

PSI

No

Poor No

PSI

(No)

No

Poor

No PSI

No

No

Poor

Poor

No

Poor

No

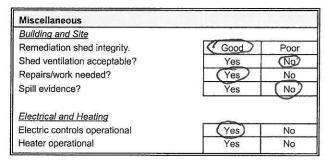
Carbon Treatment Drums

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping	
Pipe integrity in shed.	
Pipe integrity at catch basin.	<
Pipe at catch basin clear?	
Pipe integrity at creek.	
Pipe at creek clear?	



Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor	_	
Compressor operational?	Yes	No
Compressor hours.	9973.8	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	No
Compressor trap operating?	Ves	No
Regulator operating?	Yes	No
Air lines performing properly?	Ves	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	1	
Pure DNAPL to disposal drum.	0:25	Gallons
DNAPL/water to disposal drum.	- 15	Gallons
DNAPL/water to oil/water separator.	50	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
and the second second second second second second second	0	Gallons
DNAPL/water to disposal drum.		
DNAPL/water to disposal drum. Product, Carbon, Waste Storage		
Product, Carbon, Waste Storage		Drums
Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	0	Drums Drums
	0	Transformer of the set
<u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Drums
<u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	i	Drums Drums

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	16	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	K	Arrow
DNAPL Drum		
High level shut off operational?	(Ves)	No
Green warning light operational?	Tes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	80
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
	10	PSI
LNAPL pump pressure (departure)	10	PSI
LNAPL pump pressure (departure) Bubbler tube operating pressure.	1	PSI PSI
LNAPL pump pressure (departure) Bubbler tube operating pressure.	10	PSI
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?	10	PSI PSI
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure)	10	PSI PSI No
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure)	10	PSI PSI No Arrow
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i>	10	PSI PSI Arrow Arrow Poor
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity.	10 b Yes	PSI PSI Arrow Arrow
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned?	Yes Ves	PSI PSI Arrow Arrow Poor
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	Yes Ves	PSI PSI Arrow Arrow Poor No
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u>	Yes Ves	PSI PSI Arrow Arrow Poor No
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational?	Yes Yes Yes	PSI PSI Arrow Arrow Poor Feet
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>OilWater Separator</i> Water high level shut-off operational? Red warning light operational?	Yes Yes Yes	PSI PSI No Arrow Arrow Poor Feet No
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>OilWater Separator</i> Water high level shut-off operational? Red warning light operational?	Yes Yes Yes Yes	PSI PSI No Arrow Arrow Poor Feet No No
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>OilWater Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Yes Yes Yes Yes Good	PSI PSI No Arrow Arrow Poor Feet No No Poor
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>OilWater Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Yes Yes Yes Yes Yes Yes Yes	PSI PSI No Arrow Arrow Poor No Feet No No Poor
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Yes Yes Yes Yes Good Yes Good	PSI PSI No Arrow Arrow Poor Feet No Roor Poor
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>OilWater Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Yes Yes Yes Yes Good Yes Good Good	PSI PSI No Arrow Arrow Poor Feet No No Poor Poor

Table 4-1

Primary carbon drum leaks?

Primary carbon drum pressure.

Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Pipe integrity in shed.

LNAPL/Groundwater System - (Continued	d)	
Transfer Pump and Piping		
Pump operational?	(Yes')	No
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.30	GPN
Totalizer reading (cumulative volume).	240410	Gallor
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	20	8
Filter unit 2 pressure @ Arrival (In /Out)	15	8
Filter unit 1 pressure @ Departure (In/Out)	i.	
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor

ons

3 Yes 5,5 PSI (No) Yes

Good	Poor
Yes	(No)
3	PSI
Yes	No
Yes	No

Good	Poor
Yes	(NO)
1	PSI
Yes	(NP
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

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

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor	11-1-1-1	
Compressor operational?	Yes'	No
Compressor hours.	9979.3	Hours
Oil level checked?	Tes	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		
	0	Gallons
Pure DNAPL to disposal drum.		0.1
Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
State of the second	0	
DNAPL/water to disposal drum.	0	
DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	00	
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u>	00	Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	00	Gallons Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>	00	Gallons Gallons Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	00	Gallons Gallons Gallons Drums
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	00	Gallons Gallons Gallons Drums Drums
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	30-00	Gallons Gallons Gallons Drums Drums Drums

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI PSI
DNAPL pump pressure (departure) Pneumatic settings adjusted?	the second se	No
	Yes	
Discharge control setting (departure)		Arrow
Refill control setting (departure)	L_K_	Arrow
DNAPL Drum	Ve	Ne
High level shut off operational?	(Ces	No
Green warning light operational?		No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	(No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Geod	Poor
DNAPL pump cleaned?	Yes	00
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System	1000	
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)		PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	CN3
Discharge control setting (departure)	<u> </u>	Arrow
Refill control setting (departure)	K	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	00
LNAPL top of pump depth.		Feet
Oil/Water Separator		
Water high level shut-off operational?	(Ves	No
Red warning light operational?	(es)	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	60
Separator needs cleaning?	Yes	Ŕ
Separator cleaned?	Yes	No
		100 C
echnician: T. Kalmer		

Table 4-1

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure.

LNAPL/Groundwater System - (Continued) Transfer Pump and Piping		
Pump integrity.	6000	Poo
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.75	GPN
Totalizer reading (cumulative volume).	251578	Gallo
Water filters changed?	(Yes)	No
Filter unit 1 pressure @ Arrival (In/Out)	22	8.25
Filter unit 2 pressure @ Arrival (In /Out)	23.5	9,29
Filter unit 1 pressure @ Departure (In/Out)	8	7.5
Filter unit 2 pressure @ Departure (In/Out)	8.5	7.5
Carbon Treatment Drums		

or C М ons

Good	Poor
Yes	No
6	PSI
Yes	ND

Good	Poor
Yes	No
2	PSI
Yes	(ND)
Yes	NO
	\sim
Good	Poor
Yes	
0.5	PSI

Polishing carbon removed for disposal?	Yes	
New carbon polishing drum?	Yes	(N)
Discharge Piping		
Pipe integrity in shed.	6000	Poor
Pipe integrity at catch basin.		

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

Building and Site	<u>8</u>	
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 Heater operational	Yes	No

Site Visit Checklist/Data Sheet Miscellaneous - (Continued) Access Vaults

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Te	No
Compressor hours.	4985.8	Hours
Oil level checked?	()	No
Oil level changed?	Yes	No
Compressor trap operating?	(Les	No
Regulator operating?	Ves	No
Air lines performing properly?	Yes	No
Sampling Sampling Performed?	Yes	(No)
Post Carbon Sample Time	Tes	UNO
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.		Gallons
the second s		Gallons Gallons
Pure DNAPL to disposal drum.	30	
Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	30	Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u>	30	Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	30	Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>	30	Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Gallons Gallons
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums

DNAPL System Operational upon arrival?	Ves	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	A	Arrow
Refill control setting (departure)	11	Arrow
	L	
DNAPL Drum	(Te	No
High level shut off operational?	Tes	No
Green warning light operational?		
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	Yes	No
Operational upon arrival?	Tes	PSI
LNAPL pump pressure (arrival)	-10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	0	
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)	1	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	AND -
LNAPL top of pump depth.		Feet
Oil/Water Separator		1000
Water high level shut-off operational?	Ves	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	R
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	0x0
Separator needs cleaning?	Yes	
Separator cleaned?	Yes	NO
echnician: BMiller		and the second

Table 4-1

Transfer Pump and Piping		
Pump operational?	Pes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.54	GPM
Totalizer reading (cumulative volume).	259452	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	15	5,5
Filter unit 2 pressure @ Arrival (In /Out)	7	515
Filter unit 1 pressure @ Departure (In/Out)	18	8
Filter unit 2 pressure @ Departure (In/Out)	10	8

Góoð

Yes 6

Yes

Good

Yes 3

Yes

Yes

Good

Yes 1

Yes Yes

Poor (NO)

PSI

(No)

Poor

(No)

PSI

AN NO

Poor

NO

PSI

No

CNO

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Pipe integrity in shed.

Pipe integrity in shed.	Goog	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

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	ð	
Electric controls operational	Yes	No
Heater operational	Yes	No

Site Visit Checklist/Data Sheet

	· · · · ·
	Poor
Yes	No
(Yes)	No
9994,2	Hours
(Yes)	No
Yes	CALC .
(Yes)	No
(Tes)	No
(es)	No
······	
Yes	No
150	
15:30	0
	Quarter
Yes	No
	Name of Street
	Gallons
10	Gallons
00	Gallons
1944	
0	Gallons
0	Gallons
	Drums
-i	Drums
Y	Drums
6	Drums
Yes	No
	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

DNAPL System Operational upon arrival?	Ves	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)	1/	Апоw
	-	
DNAPL Drum High level shut off operational?	K	No
Green warning light operational?	Ves	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
a preservative and a second	Good	Poor
Decant valve integrity.	0000	Poor
DNAPL Pump and Piping	· · · · · · · · · · · · · · · · · · ·	
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	Nø
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	(0	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	2	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
<u>Oil/Water Separator</u> Water high level shut-off operational?	(Yes)	No
Red warning light operational?	(Yes)	No
ited warning light operational.	Good	Poor
Senarator vessel integrity	Yes	(NO
Separator vessel integrity. Leaks present?	Good	Poor
Leaks present?	0000	Poor
Leaks present? Separator cover and seal integrity.	Good	
Leaks present? Separator cover and seal integrity. Decant valve integrity.	Good	NO
Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Yes	No No
Leaks present? Separator cover and seal integrity. Decant valve integrity.		S 83
Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning?	Yes Yes	SR)

Table 4-1

LNAPL/Groundwater System - (Continued	d)	
Transfer Pump and Piping		1.0
Pump operational?	Yes	N
Pump integrity.	Good	Po
Flow meter operational?	Yes	N
Transfer pump flow rate.	3,71	GF
Totalizer reading (cumulative volume).	65820	Gal
Water filters changed?	Yes	4
Filter unit 1 pressure @ Arrival (In/Out)	15	7,
Filter unit 2 pressure @ Arrival (In /Out)	13	7.5
Filter unit 1 pressure @ Departure (In/Out)	15	7.
Filter unit 2 pressure @ Departure (In/Out)	13	7. 5
		0.999-0-125-099

Yes	No
G000	Poor
Yes	No
3,71	GPM
5820	Gallons
Yes	(ND)
15	7,5
13	7.5
15	7.5
13	7.5

Poor (I)3

PSI

Poor

NO

PSI

N

(AP)

Poor 00

PSI

(NO3

No

(THE

Good

Yes 515

> Yes Good

> > Yes

3

Yes

Yes

Good

Yes

Yes Yes

Carbon Treatment Drums

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Pipe integrity in shed.

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

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

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Repairs needed to vauits?	165	
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	10005.3	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	NOS
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling Performed?	Yes	(NOS
Post Carbon Sample Time	100	
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterl
Product sampled?	Yes	No
Passan and Diananal	- C.F. DEWRYCHIA	
Recovery and Disposal Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	1	Gallons
	Ö	Gallons
DNAPL/water to disposal drum.	5	Gallons
DNAPL/water to oil/water separator.	5	Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u>	5	
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	5	Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u>	5 0	Gallons Gallons Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	5 0 0	Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>		Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)		Gallons Gallons
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Drums
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Drums Drums Drums Drums
DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Drums Drums

DNAPL System		
Operational upon arrival?	Tes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	K	Arrow
DNAPL Drum		2000
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?	Tes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	S	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	CND
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	<u></u>
Separator needs cleaning?	Yes	<u>Sec</u>
Separator cleaned?	Yes	(Ňo)
echnician: <u>BMiller</u>		
1 bu in		

Table 4-1

LNAPL/Groundwater System - (Continued	d)	
Transfer Pump and Piping	14/14/1	
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.89	GPM
Totalizer reading (cumulative volume).	272922	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	13	5.5
Filter unit 2 pressure @ Arrival (In /Out)	14	5
Filter unit 1 pressure @ Departure (In/Out)	30/00	7.5
Filter unit 2 pressure @ Departure (In/Out)	32	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	6	PSI
Secondary drum rotated to primary?	Yes	NO

Good

Yes

Yes

Yes Good

Yes

Yes

Yes

Poor

3

PSI BB

Poor No

PSI

NO

Poor

Poor

No

Poor

No

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping	
Pipe integrity in shed.	Good
Pipe integrity at catch basin.	Good
Pipe at catch basin clear?	Yes
Pipe integrity at creek.	Good
Pipe at creek clear?	Yes

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

Site Visit Checklist/Data Sheet

Access Vaults		Deser
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	10012.7	Hours
Oil level checked?	(Yeg	No
Oil level changed?	Yes	No
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	Yes	No
Courseline a		
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.	g5	Gallons
DNAPL/water to disposal drum.	05	Gallons
DNAPL/water to oil/water separator.	30	Gallons
Recovery from Oil/Water Separator	~	
Pure DNAPL to disposal drum.	05	Gallons
DNAPL/water to disposal drum.	#5	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums	<u> </u>	Drums
PPE/Solids drums		Drums
LNAPL drums	Ò	Drums
Drums labeled?	A	No
		No
Drums palletized? lotes: Changed two Biz ~	RI. S	

Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	18	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	11-	Arrow
Refill control setting (departure)	Ľ.	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.	CoooD	Poor
DNAPL pump cleaned?	Yes	Na
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		NT-
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival) LNAPL pump pressure (departure)	10	PSI PSI
Bubbler tube operating pressure.	15	PSI
Pneumatic settings adjusted?	Yes	PSI No
Discharge control setting (departure)	ALCS 1	Arrow
Refill control setting (departure)	- N	Arrow
	- A	
<u>LNAPL Pump and Piping</u> LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
	L	
<u>Oil/Water Separator</u> Water high level shut-off operational?	Yes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	
Separator needs cleaning?	Yes	(NO)
Separator cleaned?	Yes	No
B Miller		
echnician: 5 Muller		

Table 4-1

Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes,	No
Transfer pump flow rate.	3.60	GPM
Totalizer reading (cumulative volume).	278136	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	9	8
Filter unit 2 pressure @ Arrival (In /Out)	31	8
Filter unit 1 pressure @ Departure (In/Out)	9	8
Filter unit 2 pressure @ Departure (In/Out)	31	8

Good

Yes 6

Yes Good

> Yes 4

> Yes

Yes

Good

Yes 2

Yes Yes

Gan

Poor No

PSI NO

Poor (No)

PSI

No

(No)

Poor

PSI

No

CND

-

Carbon Treatment Drums

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Pipe integrity in shed

Pipe integrity in snea.		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

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

Site Visit Checklist/Data Sheet

		1.445
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	10018,8	Hours
Oil level checked?	Tes	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
Deserves and Dissessed		
Recovery and Disposal		1997 (B)
Recovery from DNAPL Drum	0 75	Callana
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.	0.25	Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0.25 0.25	Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.	0:25 0:25 40	
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0.25 0.25 40	Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0.25 0.25 40	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0.25 0.25 40 0.25 0.25	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0.25 0.25 40 0.25 0.25	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0.25 0.25 40 0.25 0.25	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0.25 0.25 40 0.25	Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	0.25 0.25 40 0.25	Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0.25 0.25 40 0.25 1 1	Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	0.25 0.25 40 0.25 0.25	Gallons Gallons Gallons Gallons Drums Drums Drums

Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	78	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)	16	Arrow
Refill control setting (departure)	1/	Arrow
	-5-	
DNAPL Drum High level shut off operational?		N.
	Yes	No
Green warning light operational?	Tes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	15	Arrow
Refill control setting (departure)	- A	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	Sel Car
LNAPL top of pump depth.		Feet
Dil/Water Separator		
Water high level shut-off operational?	(Ye)	No
Red warning light operational?	(Yes)	No
Separator vessel integrity.	Good	Poor
eaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
NAPL in separator?	Yes	N
Separator needs cleaning?	Yes	600
Separator cleaned?	Yes	Na
	165	(19
echnician: SMiller		

Table 4-1

Yes	No
Good)	Poor
Ves	No
181577	GPM
3.6	Gallons
Yes	NO
8.5	7.5
30	7.5
8,5	7.5
30	7.5
	Good Ves BIS / 1 Yes

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping

Pipe integrity in shed.	Good	Po
Pipe integrity at catch basin.	Good	Po
Pipe at catch basin clear?	Yes	N
Pipe integrity at creek.	Good	Po
Pipe at creek clear?	Yes	N

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 9 Overall vault integrity. Good Poor Repairs needed to vaults? Yes No Air Compressor Compressor operational? Yes No Compressor hours. 10074.9 Hours Oil level checked? Yes No Oil level changed? NO Yes Yes' Compressor trap operating? No Regulator operating? Yes No Air lines performing properly? Yes No Sampling Sampling Performed? Yes No Post Carbon Sample Time 1375 320 Pre-Carbon Sample Time Sampling event? Monthly Quarterly Product sampled? Yes (No) **Recovery and Disposal** Recovery from DNAPL Drum Pure DNAPL to disposal drum. Gallons DNAPL/water to disposal drum. Gallons DNAPL/water to oil/water separator. Gallons Recovery from Oil/Water Separator Pure DNAPL to disposal drum. ${ \oslash }$ Gallons DNAPL/water to disposal drum. 3 Gallons Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Drums Spent carbon drums Drums PPE/Solids drums Drums LNAPL drums Drums Drums labeled? No tes Drums palletized? Yes No Notes:

Site Visit Checklist/Data Sheet

Good) Poor Yes (No) 6 PSI Yes NO

Good	Poor
Yes	
3	PSI
Yes	CT C
Yes	No

Good	Poor
Yes	No
l	PSI
Yes	00
Yes	NO

Good	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No

Operational upon arrival?		I N
DNAPL pump pressure (arrival)	(Yes)	No PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	, Yes	No
Discharge control setting (departure)	1 cs	
Refill control setting (departure)		Arrow
(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
		1001
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)	70	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
- and a set of the card and a set of the set	Yes	NO
Pneumatic settings adjusted?		
. .	15	
Discharge control setting (departure)	N.	Arrow
Discharge control setting (departure)	New Y	
Discharge control setting (departure) Refill control setting (departure)	Nº3	Arrow
Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping	Good	Arrow
Discharge control setting (departure) Refill control setting (departure) <u>LNAPL Pump and Piping</u> LNAPL piping integrity.	N.	Arrow Arrow
Discharge control setting (departure) Refill control setting (departure) <u>LNAPL Pump and Piping</u> LNAPL piping integrity. LNAPL pump cleaned?	The second secon	Arrow Arrow Poor
Discharge control setting (departure) Refill control setting (departure) <u>LNAPL Pump and Piping</u> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	The second secon	Arrow Arrow Poor
Discharge control setting (departure) Refill control setting (departure) <u>LNAPL Pump and Piping</u> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u>	Good Yes	Arrow Arrow Poor Ne Feet
Discharge control setting (departure) Refill control setting (departure) <u>LNAPL Pump and Piping</u> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational?	Good Yes Yes	Arrow Arrow Poor Ne Feet
Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational?	Good Yes Yes Yes	Arrow Arrow Poor Feet No No
Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity.	Good Yes Yes Good	Arrow Arrow Poor Feet No No Poor
Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Good Yes Yes Yes Yes	Arrow Arrow Poor Feet No No Poor No
Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Good Yes Yes Good Yes Good	Arrow Arrow Poor Feet No No Poor No Poor
Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Good Yes Yes Good Good Good	Arrow Arrow Poor Feet No No Poor Poor Poor
Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Good Yes Yes Good Yes Good Yes	Arrow Arrow Poor Feet No No Poor No Poor Poor
Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Doccant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned?	Good Yes Yes Good Good Good	Arrow Arrow Poor Feet No No Poor Poor Poor

Table 4-1

Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	4,14	GPM
Totalizer reading (cumulative volume).	285670	Gallons
Water filters changed?	Yes	NO
Filter unit 1 pressure @ Arrival (In/Out)	9	815
Filter unit 2 pressure @ Arrival (In /Out)	31	8,5
Filter unit 1 pressure @ Departure (In/Out)	9	8.5
Filter unit 2 pressure @ Departure (In/Out)	31	8.5

Good

Yes 5.5

Yes

(Góod)

Yes 3

Yes

Yes

Good

Yes

Yes

Yes

Poor

CNO

PSI

NO

Poor NO

PSI B

Poor

(No)

PSI No

No

Poor

Poor

No

Poor

No

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping

Pipe integrity in shed.	Good
Pipe integrity at catch basin.	Good
Pipe at catch basin clear?	(Yes)
Pipe integrity at creek.	Good
Pipe at creek clear?	(Yes)
the second se	

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

Site Visit Checklist/Data Sheet

Access Vaults		3 24
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	10032.4	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	CNO
Compressor trap operating?	Yes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
		ne Contenent
Sampling Sampling Performed?	1 N	
Post Carbon Sample Time	Yes	No
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quartart
	Yes	Quarterly
Product sampled?		
Product sampled?	res	
	fes	
Recovery and Disposal Recovery from DNAPL Drum	res	
Recovery and Disposal	1 1es	Gallons
Recovery and Disposal Recovery from DNAPL Drum	a25 025	
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	105 10	Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	a 25 0 25 10	Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	a 25 0 25 10	Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	10 125 10	Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.		Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	125 125 10 125 10 125	Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	10 10 10 10 10	Gallons Gallons Gallons Gallons Gallons Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gallons Gallons Gallons Gallons Gallons Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gallons Gallons Gallons Gallons Gallons Drums Drums

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	15	PSI
DNAPL pump pressure (departure)	18	PSI
Pneumatic settings adjusted?	Yes	CNO
Discharge control setting (departure)	N	
Refill control setting (departure)		Arrow
Kenn 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	80
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System	a and the second	
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	21	Arrow
torm conner sound (departme)		7 mow
LNAPL Pump and Piping		100 Contractor
LNAPL piping integrity.	Góod	Poor
LNAPL pump cleaned?	Yes	APP
LNAPL top of pump depth.	\square	Feet
<u>Oil/Water Separator</u>		
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	(AC)
Separator needs cleaning?	Yes	(NO)
Separator cleaned?	Yes	CN05
		9
echnician: <u>BM</u> .Her		

Table 4-1

Primary carbon drum integrity.

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal?

New carbon polishing drum?

Discharge Piping Pipe integrity in shed. Pipe integrity at catch basin. Pipe at catch basin clear? Pipe integrity at creek. Pipe at creek clear?

Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary? Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	Tes	No
Pump integrity.	GOOD	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).	287113	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	9.5	8.5
Filter unit 2 pressure @ Arrival (In /Out)	150	815
Filter unit 1 pressure @ Departure (In/Out)	9	7.5
Filter unit 2 pressure @ Departure (In/Out)	25	7.5
Carbon Treatment Drums		

Sold

Yes	(10)
6	PSI
Yes	

Poor

Poor
47
PSI
440
NO

6000	Poor
Yes	(A)
1	PSI
Yes	A ₽
Yes	

Good	Poor
Good	Poor
Yes	No
Good	Poor
Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10059.4	Hours
Oil level checked?	Tes	No
Oil level changed?	Yes	CNG
Compressor trap operating?	Yes	No
Regulator operating?	Tes	No
Air lines performing properly?	Tes	No
	d	
Sampling		
Sampling Performed?	Yes	"(No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterl
Product sampled?	Yes	No
Recovery and Disposal	4.4	
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.	\mathcal{O}	Gallons
Product, Carbon, Waste Storage	1	.
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums		Drums
		Drums
PPE/Solids drums		
LNAPL drums	°O'	Drums
		Drums No No

Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	RO	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	N	Arrow
Refill control setting (departure)	K	Arrow
DNAPL Drum	151	
High level shut off operational?	Tes	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		HA
Operational upon arrival?	Tes	No
Operational upon arrival? LNAPL pump pressure (arrival)	(Yes)	No PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure)		PSI PSI
Operational upon arrival? LNAPL pump pressure (arrival)		PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?		PSI PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure.		PSI PSI PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?		PSI PSI PSI No
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure)		PSI PSI PSI No Апоw
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure)		PSI PSI No Arrow Arrow Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping	10 10 MOR N	PSI PSI PSI No Апоw Апоw
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity.	100 MAR A	PSI PSI No Arrow Arrow Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned?	100 MAR A	PSI PSI No Arrow Arrow Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	100 MAR A	PSI PSI No Arrow Arrow Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Qil/Water Separator</i>	Yes	PSI PSI No Arrow Arrow Poor No Feet
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Qil/Water Separator</i> Water high level shut-off operational?	Yes	PSI PSI No Arrow Arrow Poor No Feet
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational?	Yes Yes	PSI PSI No Arrow Arrow Poor No Feet
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational? Red warning light operational? Separator vessel integrity.	Yes Good	PSI PSI No Arrow Arrow Poor No Feet No No Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Yes Good Yes	PSI PSI No Arrow Arrow Poor No Feet No No No Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity.	Yes Good Yes Good	PSI PSI No Arrow Arrow Poor No Feet No No Poor No Poor
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Yes Good Yes Good Cood	PSI PSI No Arrow Arrow Poor No Feet No No Poor No Poor Poor Poor

Table 4-1

LNAPL/Groundwater System - (Continued	d)	
Transfer Pump and Piping		
Pump operational?	(Yesz)	No
Pump integrity.	Good	Poor
Flow meter operational?	Tes	No
Transfer pump flow rate.	3,90	GPM
Totalizer reading (cumulative volume).	290213	Gallons
Water filters changed?	Yes	CNO
Filter unit 1 pressure @ Arrival (In/Out)	8	7
Filter unit 2 pressure @ Arrival (In /Out)	30	7
Filter unit 1 pressure @ Departure (In/Out)	B	7
Filter unit 2 pressure @ Departure (In/Out)	30	7

Good

Yes

Yes

Good

Yes 3

Yes

Yes

Yes

Yes

Yes

7

Poor

PSI

(NOT)

Poor

PSI

CARD

Na

Poor

PSI

CND'

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Tes	No
Pipe integrity at creek.	600)	Poor
Pipe at creek clear?	Yes	No

Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	des	No
Spill evidence?	Yes	
Electrical and Heating		2
Electric controls operational	Yes	No
Heater operational	Yes Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity. 7	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	100 5,7	Hours
Oil level checked?	CYESS	No
Oil level changed?	Yes	(MO)
Compressor trap operating?	(Tes)	No
Regulator operating?	(Rec)	No
Air lines performing properly?	Tes	No
Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterl
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	Ø	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	5	Gallons
Recovery from Oil/Water Separator		0.1
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.		Gallons
Product, Carbon, Waste Storage		
<u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)		Drums
Service States and the service states and the service states and the service states and the service states and	i.	Drums Drums
DNAPL drums on-site (full and fractional)		
DNAPL drums on-site (full and fractional) Spent carbon drums	- - - - - - - - - - - - - - - - - - 	Drums
DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Drums Drums

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	12	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	11	Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yés	No
Green warning light operational?	Yes	No
DNAPL drum container integrity.	Viood	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		D
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	Feet
DNAPL top of pump depth.		reet
	a data in a second	
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	(No3
Discharge control setting (departure)	1	Arrow
Refill control setting (departure)	N N	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	RD
LNAPL top of pump depth.		Feet
Oil/Water Separator	231	
Water high level shut-off operational?	Ye	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	(NO)
Separator needs cleaning?	Yes	(No)
Separator cleaned?	Yes	No
Technician: Brent Miller Date: 8-3-11		
Q.2.11		
Date:0*9*11		

Date:

Table 4-1

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.	3.34	GPM
Totalizer reading (cumulative volume).	29/913	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	8	7
Filter unit 2 pressure @ Arrival (In /Out)	16	7
Filter unit 1 pressure @ Departure (In/Out)	8	7
Filter unit 2 pressure @ Departure (In/Out)	16	7

Poor (HOS

PSI TO

Poor

NB

PSI AP

No

Poor

No

PSI

NO

AP?

Good

Yes 5

Yes

6000

Yes

Yes

Yes Good

Yes

Yes

Yes

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping		
Pipe integrity in shed.	Góod	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	2004 (
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	(ND)
Repairs/work needed?	Yes	No
Spill evidence?	Yes	CNo'
Electrical and Heating Electric controls operational Heater operational DFF	Yes	No No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)	2.5.46	
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
	<u> </u>	
Air Compressor		
Compressor operational?	CYes	No
Compressor hours.	10050.5	Hours
Oil level checked?	CYES	No
Oil level changed?	Yes	
Compressor trap operating?	(Yes)	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
Sampling		
Sampling Performed?	(Yes)	No
Post Carbon Sample Time	1100	
Pre-Carbon Sample Time	140	
Sampling event?	Monthay	Quarterly
Product sampled?	Yes	(NO)
7		
Recovery and Disposal		and the second second second
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	8	Gallons
DNAPL/water to oil/water separator.	10	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	7	Drums
PPE/Solids drums	111	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?	Yes	No

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	S
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	K	Arrow
DNAPL Drum		
High level shut off operational?	Ves	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.	Cine Vac	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System	an start a shirt	
LNAPL/Groundwater System Operational upon arrival?	Yes	No
	<u>(Ye)</u> 10	No
Operational upon arrival?	<u>(je</u>) 10 10	
Operational upon arrival? LNAPL pump pressure (arrival)	10	PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure)	10	PSI PSI
Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure.	10 10 5	PSI PSI PSI

LNAPL Pump and Piping	
LNAPL piping integrity.	
LNAPL pump cleaned?	
LNAPL top of pump depth.	

Date:

Oil/ Wate Red Sepa Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned? Yes Miller B Technician:

8-12-11

AL LOUIDINATOL Dystem		
erational upon arrival?	Yes	No
APL pump pressure (arrival)	10	PSI
APL pump pressure (departure)	10	PSI
obler tube operating pressure.	5	PSI
sumatic settings adjusted?	Yes	No
charge control setting (departure)	7 the	Arrow
fill control setting (departure)	V	Arrow
APL Pump and Piping		
APL piping integrity.	Good	Poor
APL pump cleaned?	Yes	Be
APL top of pump depth.	-	Feet
Water Separator	s.	
ter high level shut-off operational?	(Yes)	No
I warning light operational?	Te	No
arator vessel integrity.	Good	Poor
Strauterrender State andre der seiner ges		- Andrews

No Yes 00000 Poor Good Poor S S S Yes Yes

Table 4-1

LNAPL/Groundwater System - (Continue	d)
Transfer Pump and Piping	
Pump operational?	Tes
Pump integrity.	60008
Flow meter operational?	Yes
Transfer pump flow rate.	3:75
Totalizer reading (cumulative volume).	293874
Water filters changed?	Yes
Filter unit 1 pressure @ Arrival (In/Out)	7
Filter unit 2 pressure @ Arrival (In /Out)	75
Filter unit 1 pressure @ Departure (In/Out)	7
Filter unit 2 pressure @ Departure (In/Out)	15

No Poor No GPM Gallons (No)

Poor < No

PSI No

Poor No

PSI

(No

(No)

Poor

(No)

PSI

NO

(1)

Good

Yes 5

Yes

Yes 3

Yes

Yes

Good

Yes

2

Yes

Yes

Good

Good

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Pipe integrity in shed.

Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	Tes	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?	(Ye	No
Spill evidence?	Yes	Nó
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes Yes	No

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	(Yes)	No
Compressor hours.	10059-4	Hours
Oil level checked?	Tes	No
Oil level changed?	Yes	CNO
Compressor trap operating?	(Ye3)	No
Regulator operating?	Yes	No
Air lines performing properly?	Cree	No
Sampling		
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Passwaru and Disposal		
Recovery and Disposal Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	\cap	Gallons
DNAPL/water to disposal drum.	8	Gallons
DNAPL/water to oil/water separator.	6	Gallons
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	6	Gallons
Pure DNAPL to disposal drum.		Gallons
DALA DI (start a disa seal davas		Galions
DNAPL/water to disposal drum.		
Product, Carbon, Waste Storage		Deur
Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Drums
<u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums		Drums
<u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Drums Drums
DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	1/1	Drums Drums Drums
<u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?		Drums Drums Drums No
Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?	1/1	Drums Drums Drums
Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?	1/1	Drums Drums Drums No
<u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	1/1	Drums Drums Drums No

Promp well 11.60 17.18

DNAPL System Operational upon arrival? DNAPL pump pressure (arrival) DNAPL pump pressure (departure) Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) DNAPL drum container integrity. DNAPL pump and Piping DNAPL pump cleaned? DNAPL pump pressure (arrival) LNAPL pump and Piping Discharge control setting (departure) Bubbler tube operational			
DNAPL pump pressure (arrival) Image: Construct of the second section of the second s	DNAPL System		
DNAPL pump pressure (departure) Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) Refill control setting (departure) High level shut off operational? DNAPL Drum High level shut off operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL piping integrity. DNAPL piping integrity. DNAPL piping integrity. DNAPL poing cleaned? DNAPL poing cleaned? DNAPL poing cleaned? DNAPL poing pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating ressure. Pneumatic settings adjusted? Discharge control setting (departure) Bubbler tube operating ressure. Pneumatic settings adjusted? Discharge control setting (departure) LNAPL pump cleaned? LNAPL pump depth. Cool Poor Ves Discharge control setting (departure) Refill control setting (departure) LNAPL pump cleaned? LNAPL pump depth.	Operational upon arrival?	(Yes)	No
Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) Refill control setting (departure) DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. DNAPL pump and Piping DNAPL poing integrity. DNAPL poing integrity. DNAPL poing integrity. DNAPL top of pump depth. Feet No Discharge control setting (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL pump cleaned? LNAPL pump depth. Discharge control setting (departure) LNAPL pump cleaned? LNAPL pump cleaned? LNAPL pump cleaned? LNAPL pump cleaned? LNAPL top of pump depth. Discharge control setting (dep	DNAPL pump pressure (arrival)	80	PSI
Discharge control setting (departure) Arrow Refill control setting (departure) Arrow DNAPL Drum High level shut off operational? No Green warning light operational? Yes No DNAPL drum container integrity. Good Poor Leaks present? Yes No DNAPL pump and Piping Operational regrity. Good Poor DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No INAPL pump pressure (arrival) IO PSI DNAPL pump pressure (departure) Separator cover and seal integrity. PSI Discharge control setting (departure) Yes Separator cover and seal integrity. INAPL pump cleaned? Yes Separator cover and seal integrity. INAPL pump cleaned? Yes Separator cover and seal integrity. INAPL pump cleaned? Yes No INAPL pump and Piping Feet Separator cover and seal integrity. INAPL piping integrity. Good Poor INAPL pump cleaned? Yes Separator cover and seal integrity. INAPL pump cleaned? Yes	DNAPL pump pressure (departure)	AG	PSI
Refill control setting (departure) Arrow DNAPL Drum High level shut off operational? No Green warning light operational? Yes No DNAPL drum container integrity. Good Poor Leaks present? Yes No DNAPL drum container integrity. Good Poor Decant valve integrity. Good Poor DNAPL pump and Piping Opor No DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No LNAPL/Groundwater System Operational upon arrival? Yes DNAPL pump pressure (departure) Separator setting (departure) No Bubbler tube operating pressure. PSI Yes Pneumatic settings adjusted? Yes No Discharge control setting (departure) Arrow Arrow Refill control setting (departure) Arrow Yes No LNAPL pump and Piping Feet No Yes No INAPL pump cleaned? INAPL pump cleaned? No Yes No Ref warning light operational? Yes <t< td=""><td>Pneumatic settings adjusted?</td><td>NYes .</td><td>(NO)</td></t<>	Pneumatic settings adjusted?	NYes .	(NO)
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drum container integrity. Leaks present? Decant valve integrity. Decant valve integrity. DNAPL pump and Piping DNAPL pump cleaned? DNAPL pump cleaned? DNAPL pump of pump depth. Ves No Good Poor NAPL pump of pump depth. Pressure (departure) Bubbler tube operating pressure (departure) Bubbler tube operating (departure) Bubbler tube operating (departure) Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) INAPL pump cleaned? LNAPL pump and Piping LNAPL pump and Piping LNAPL pump cleaned? LNAPL pump cleaned? <tr< td=""><td>Discharge control setting (departure)</td><td>15</td><td>Arrow</td></tr<>	Discharge control setting (departure)	15	Arrow
High level shut off operational? Yes No Green warning light operational? No Yes No DNAPL drum container integrity. Good Poor Leaks present? Yes No Decant valve integrity. Good Poor DNAPL pump and Piping Good Poor DNAPL piping integrity. Good Poor DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No LNAPL/Groundwater System Operational upon arrival? Yes No LNAPL pump pressure (departure) Bubbler tube operating pressure. PSI Pneumatic settings adjusted? Discharge control setting (departure) Yes No LNAPL pump and Piping LNAPL pump cleaned? Arrow Yes No LNAPL pump cleaned? NAPL pump cleaned? No Yes No LNAPL pump cleaned? Karrow Yes No Yes No LNAPL pump cleaned? No Yes No Yes No Separator vessel integrity. Leaks present? Separator cover and seal integrit			Arrow
High level shut off operational? Yes No Green warning light operational? No Yes No DNAPL drum container integrity. Good Poor Leaks present? Yes No Decant valve integrity. Good Poor DNAPL pump and Piping Good Poor DNAPL piping integrity. Good Poor DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No LNAPL/Groundwater System Operational upon arrival? Yes No LNAPL pump pressure (departure) Bubbler tube operating pressure. PSI Pneumatic settings adjusted? Discharge control setting (departure) Yes No LNAPL pump and Piping LNAPL pump cleaned? Arrow Yes No LNAPL pump cleaned? NAPL pump cleaned? No Yes No LNAPL pump cleaned? Karrow Yes No Yes No LNAPL pump cleaned? No Yes No Yes No Separator vessel integrity. Leaks present? Separator cover and seal integrit		- <u>H</u>	
Green warning light operational? Yes No DNAPL drum container integrity. Good Poor Leaks present? Cood Poor Decant valve integrity. Good Poor DNAPL pump and Piping Door Poor DNAPL piping integrity. Good Poor DNAPL pump and Piping Good Poor DNAPL pump cleaned? Yes No DNAPL pump cleaned? Yes No DNAPL pump pressure (arrival) INAPL pump pressure (departure) PSI Bubbler tube operating pressure. PSI PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Arrow Arrow LNAPL pump and Piping Yes No LNAPL pump cleaned? Yes No LNAPL pump cleaned? Yes No Separator vessel integrity. Good Poor LNAPL pump cleaned? Yes <td>DNAPL Drum</td> <td>-</td> <td></td>	DNAPL Drum	-	
DNAPL drum container integrity. Leaks present? Decant valve integrity. Decant valve integrity. Decant valve integrity. DNAPL pump and Piping DNAPL piping integrity. DNAPL pump cleaned? DNAPL top of pump depth. Peet INAPL pump cleaned? DNAPL top of pump depth. Pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL pump cleaned?	High level shut off operational?	Yes	No
Leaks present? Yes No Decant valve integrity. Good Poor DNAPL piping integrity. Yes No DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No Operational upon arrival? Yes No LNAPL/Groundwater System Image: Construction of the pressure (departure) PSI Bubbler tube operating pressure. PSI PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Arrow Arrow LNAPL pump cleaned? Yes No Cood Poor Yes No LNAPL pump cleaned? Yes No Cood Poor Yes No Good Poor Yes No Cood Poor Yes No	Green warning light operational?	Yes	No
Decant valve integrity. Good Poor DNAPL pump and Piping DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No Poor Decant valve integrity. Yes No Poor DNAPL pump cleaned? Yes No Poor DNAPL top of pump depth. Feet No Poor Decant valve integrity. Yes No Poor Divariational upon arrival? Yes No Poor LNAPL pump pressure (arrival) PSI PSI PSI LNAPL pump pressure (departure) PSI PSI PSI Bubbler tube operating pressure. PSI PSI PSI Pneumatic settings adjusted? Yes No No Discharge control setting (departure) Arrow Arrow LNAPL piping integrity. Yes Yes Yes LNAPL pump cleaned? Yes Yes Yes LNAPL pump cleaned? Yes Yes Yes UNAPL pump cleaned? Yes No Good Poor Varter high level shut-off	DNAPL drum container integrity.	Good	Poor
DNAPL Pump and Piping DNAPL piping integrity. DNAPL pump cleaned? DNAPL top of pump depth. Ves Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL pump pressure. Pising (departure) LNAPL pump and Piping LNAPL pump cleaned? LNAPL is separator	Leaks present?	Yes	(No)
DNAPL piping integrity. Image: Constraint of the second secon	Decant valve integrity.	Good	Poor
DNAPL piping integrity. Image: Constraint of the second secon			
DNAPL pump cleaned? Yes DNAPL top of pump depth. Feet INAPL top of pump depth. Operational upon arrival? Yes LNAPL pump pressure (arrival) //2 PSI LNAPL pump pressure (departure) //2 PSI Bubbler tube operating pressure. PSI //2 PSI Pneumatic settings adjusted? Yes DSP //2 PSI Discharge control setting (departure) Arrow Arrow //2 PSI LNAPL pump neasure. Yes DSP //2 PSI Discharge control setting (departure) Arrow Arrow //2 Poor LNAPL pump neaned? Yes DSP //2	DNAPL Pump and Piping		
DNAPL top of pump depth. Feet LNAPL/Groundwater System Operational upon arrival? Yes No LNAPL pump pressure (arrival) ////////////////////////////////////	DNAPL piping integrity.	Good	Poor
LNAPL/Groundwater System Operational upon arrival? Yes LNAPL pump pressure (arrival) ////////////////////////////////////	DNAPL pump cleaned?	Yes	(NO)
Operational upon arrival? Yes No LNAPL pump pressure (arrival) ////////////////////////////////////	DNAPL top of pump depth.		Feet
Operational upon arrival? Yes No LNAPL pump pressure (arrival) ////////////////////////////////////			
Operational upon arrival? Yes No LNAPL pump pressure (arrival) ////////////////////////////////////			
LNAPL pump pressure (arrival) Image: Descent of the second of the se	A CONTRACTOR OF A CONTRACTOR O	1000	Na
LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Yes Yes Yes Separator needs cleaning?		10	
Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) INAPL pump and Piping LNAPL piping integrity. LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Yes Yes Yes Separator needs cleaning?		10	
Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) INAPL Pump and Piping LNAPL piping integrity. LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Red warning light operational? Separator cover and seal integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Yes Separator needs cleaning?		10	
Discharge control setting (departure) Discharge control setting (departure) Refill control setting (departure) LNAPL piping integrity. LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Yes Yes Yes Separator needs cleaning?		- S	and the second s
Refill control setting (departure) Arrow LNAPL piping integrity. Poor LNAPL piping integrity. Yes LNAPL top of pump depth. Yes Oil/Water Separator Yes Water high level shut-off operational? Yes Separator vessel integrity. Good Leaks present? Yes Separator cover and seal integrity. Good Decant valve integrity. Good LNAPL in separator? Yes Separator needs cleaning? Yes	Construction of the second	res	
LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Yes Separator needs cleaning?			
LNAPL piping integrity. Good Poor LNAPL pump cleaned? Yes So LNAPL top of pump depth. Feet So Oil/Water Separator Water high level shut-off operational? 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 Yes	Refill control setting (departure)	8	Anow
LNAPL piping integrity. Good Poor LNAPL pump cleaned? Yes So LNAPL top of pump depth. Feet So Oil/Water Separator Water high level shut-off operational? 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 Yes	INAPI Pump and Pining		
LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning?		Good	Poor
LNAPL top of pump depth. Feet Oil/Water Separator Water high level shut-off operational? Water high level shut-off operational? Yes Red warning light operational? Yes Separator vessel integrity. Good Leaks present? Yes Separator cover and seal integrity. Good Decant valve integrity. Good LNAPL in separator? Yes Separator needs cleaning? Yes			a faith
Oil/Water Separator Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning?	and the second se	0	Feet
Water high level shut-off operational? No Red warning light operational? Yes Separator vessel integrity. Good Leaks present? Yes Separator cover and seal integrity. Good Decant valve integrity. Good LNAPL in separator? Yes Separator needs cleaning? Yes			
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 Yes	Oil/Water Separator		
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 Yes	Water high level shut-off operational?	(Jes)	No
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 Yes	Red warning light operational?	Yes	No
Separator cover and seal integrity. Good Pool Decant valve integrity. Good Pool LNAPL in separator? Yes No Separator needs cleaning? Yes Yes	Separator vessel integrity.	Good	Poor
Separator cover and seal integrity. Good Poor Decant valve integrity. Good Poor LNAPL in separator? Yes No Separator needs cleaning? Yes Yes		Yes	No
Decant valve integrity. LNAPL in separator? Separator needs cleaning? Yes		Good	Poor
LNAPL in separator? Separator needs cleaning? Yes	and the second	Good	
Separator needs cleaning? Yes			NO
		Yes	
Separator cleaned? Yes No	Separator cleaned?	Yes	Tom

Table 4-1

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	(Yes'	No
Pump integrity.	Good	Poor
Flow meter operational?	Tes	No
Transfer pump flow rate.	3,86	GPM
Totalizer reading (cumulative volume).	294561	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	5	5
Filter unit 2 pressure @ Arrival (In /Out)	14	5
Filter unit 1 pressure @ Departure (In/Out)	7	7
Filter unit 2 pressure @ Departure (In/Out)	15	7
Carbon Treatment Drums		
Primary carbon drum integrity.	CISODO	Poor
Primary carbon drum leaks?	Yes	
Primary carbon drum pressure.	5	PSI
Secondary drum rotated to primary?	Yes	B

(Good)

Yes

Yes

Yes

Good

Yes

Yes

Yes

Poor

PSI

00

(NR

Poor

PSI

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Good Pipe integrity in shed. 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?	Tes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	(Yes)	No
Heater operational OFF	Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10065,6	Hours
Oil level checked?	Tes	No
Oil level changed?	Yes	SAD
Compressor trap operating?	Yes	No
Regulator operating?	(Tes)	No
Air lines performing properly?	Tes	No
Sampling		
Sampling Performed?	Yes	(Not
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterl
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	G	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Receiver from OilMotor Separator		
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	a	Gallons
DIAR Dwater to disposal drum.		Galons
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	111	Drums
LNAPL drums	0	Drums
Drums labeled?	Yes	No
Drums palletized?		No

Notes:

MW-21 DTW - 6.64 Pamping well - 15.05

DNAPL System Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	10	PSI
DNAPL pump pressure (departure)	10	PSI
Pneumatic settings adjusted?	Yes	THE
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)	1	Arrow
reenin control contrals (acpartance)		10.04
DNAPL Drum		
High level shut off operational?	(Yess	No
Green warning light operational?	Tes	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	3
Decant valve integrity.	Good	Poor
DNADI Dune and Dining		
DNAPL Pump and Piping DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?		No ²
DNAPL top of pump depth.	Yellow -	- Feet
Divid Diop of painp depain		
an and the second second second second	aller an and a second	
LNAPL/Groundwater System		
and the second se		
Operational upon arrival?	Yes	No
Operational upon arrival? LNAPL pump pressure (arrival)	10	PSI
	10	PSI PSI
LNAPL pump pressure (arrival)	10	PSI PSI PSI
LNAPL pump pressure (arrival) LNAPL pump pressure (departure)	10	PSI PSI PSI
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure.	10 10 5	PSI PSI PSI
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted?	10 10 5	PSI PSI PSI
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure)	10 10 5	PSI PSI No Arrow
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping	10 10 Yes	PSI PSI NO Arrow
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity.	10 10 Yes Yes	PSI PSI No Arrow Arrow
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned?	10 10 Yes	PSI PSI PSI Arrow Arrow
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity.	10 10 Yes Yes	PSI PSI No Arrow Arrow Poor
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.	10 10 Yes Yes	PSI PSI PSI Arrow Arrow
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u>	10 10 Yes Yes	PSI PSI PSI Arrow Arrow
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned?	10 10 Yes Yes	PSI PSI No Arrow Arrow Poor Feet
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) <i>LNAPL Pump and Piping</i> LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i> Water high level shut-off operational?	10 10 Yes Yes	PSI PSI No Arrow Arrow Feet
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational?	Yes Yes Yes	PSI PSI No Arrow Arrow Feet No No
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Yes Yes Yes Good	PSI PSI PSI Arrow Arrow Arrow Feet No No Poor No
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Yes Yes Yes Yes	PSI PSI PSI Arrow Arrow Arrow Feet No No Poor
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational?	IO IO Yes Yes Good Yes Good	PSI PSI PSI Arrow Arrow Arrow Feet No No Poor Poor Poor
LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth. Oil/Water Separator Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	I O I O Yes Yes Good Yes Good Good	PSI PSI PSI Arrow Arrow Arrow Feet No No Poor Poor Poor

Table 4-1

LNAPL/Groundwater System - (Continued) Transfer Pump and Piping		
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3,75	GPM
Totalizer reading (cumulative volume).	297881	Gallons
Water filters changed?	Yes	(NO)
Filter unit 1 pressure @ Arrival (In/Out)	9	7.5
Filter unit 2 pressure @ Arrival (In /Out)	20	7.5
Filter unit 1 pressure @ Departure (In/Out)	9	7.5
Filter unit 2 pressure @ Departure (In/Out)	20	7.5

Good

5

Yes

Good

Yes 3

Yes

Yes

Good

Yes

Yes

Yes

Yes

Poor

CNO

PSI

NO

Poor

PSI

No

Poor

PSI

5

(NO)

Poor

Poor

No

Poor No

<u>Carbon Treatment Drums</u> Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping	
Pipe integrity in shed.	Good
Pipe integrity at catch basin.	Good
Pipe at catch basin clear?	Yes
Pipe integrity at creek.	Good
Pipe at creek clear?	(Yes)

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

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)	- Marine Commence	
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10074.9	Hours
Oil level checked?	Ves	No
Oil level changed?	Yes	
Compressor trap operating?	CYES	No
Regulator operating?	CYes	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
		é.
Recovery from Oil/Water Separator		1
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		Drums
PPE/Solids drums	111	Drums
	0	Drums
LNAPL drums		
LNAPL drums Drums labeled?	Yes	No

Notes:

MW21- 6,21 Pampingnell - 11,91

Date:

DNAPL System		
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(MO)
Discharge control setting (departure)	A	Arrow
Refill control setting (departure)	K	Arrow
DNAPL Drum		
High level shut off operational?	(Yes	No
Green warning light operational?	Ves	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	No
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	S	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	21	Arrow
Refill control setting (departure)		Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	800
LNAPL top of pump depth.		Feet
Oil/Water Separator		
	Yess	No
Water high level shut-off operational?		No
Water high level shut-off operational? Red warning light operational?	Yes	
Water high level shut-off operational? Red warning light operational? Separator vessel integrity.	Good	Poor
Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Good Yes	No
Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity.	Good Yes Good	No
Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Good Yes Good Good	Poor
Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Good Yes Good Yes	Poor Poor
Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Good Yes Good Good	Poor Poor

9-2-11

Date:

Table 4-1

LNAPL/Groundwater System - (Continued) Transfer Pump and Piping		
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	4,10	GPM
Totalizer reading (cumulative volume).	299865	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	9	8
Filter unit 2 pressure @ Arrival (In /Out)	17	8
Filter unit 1 pressure @ Departure (In/Out)	9	8
Filter unit 2 pressure @ Departure (In/Out)	17	8
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	(NB)
Primary carbon drum pressure.	5,5	PSI

Yes

Good

Yes 3

Yes

Yes

Yes

Yes

Yes

805

Poor

PSI

3

Poor

PSI

00

No

Poor

Poor

No Poor

No

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Secondary drum rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping	
Pipe integrity in shed.	Good
Pipe integrity at catch basin.	Good
Pipe at catch basin clear?	Tes
Pipe integrity at creek.	Good
Pipe at creek clear?	Yes

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	F Yes	No

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity. 7	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	100848	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	(No
Compressor trap operating?	Tes	No
Regulator operating?	Tes	No
Air lines performing properly?	(Yes)	No
		_
Sampling	1 Mar	
Sampling Performed?	Yes	CNO
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal		
Recovery and Disposal Recovery from DNAPL Drum		
Recovery from DNAPL Drum	0	Gallons
	00	
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0 0 10	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0 0 10	Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	000000000000000000000000000000000000000	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0 10 0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0 10 0	Gallons Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	1/1	Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallon Gallon Gallon Gallon Drums Drums Drums

Notes: MW-21 - 6,34 Primp vell - 15,04

DNAPL System		1
Operational upon arrival?	Tes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	-	(No)
	Yes	
Discharge control setting (departure)		Arrow
Refill control setting (departure)	K	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
Divit 2 top of pump deput.		
I NADI Course designed for the		
LNAPL/Groundwater System	(Yes)	No
Operational upon arrival?	Tes	
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	(No)
Discharge control setting (departure)		Агтоw
Refill control setting (departure)	7	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	Yes	No
Red warning light operational?	Ves	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	(Ng)
rechnician: Brent Miller		
Date: 9-6-2011		

Table 4-1

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.71	GPM
Totalizer reading (cumulative volume).	301357	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	7.5	7
Filter unit 2 pressure @ Arrival (In /Out)	18	7
Filter unit 1 pressure @ Departure (In/Out)	7,5	7
Filter unit 2 pressure @ Departure (In/Out)	18	7
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor

No

PSI

(No)

Poor (No)

> PSI (No)

NO

Poor

(No)

PSI

NO

(NO)

Yes 5

Yes

Good

Yes

3

Yes

Yes Good

Yes

Yes Yes

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

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 Heater operational	Yes	No No

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor	_	
Compressor operational?	(Yes)	No
Compressor hours.	10089.7	Hours
Oil level checked?	YES	No
Oil level changed?	Yes	
Compressor trap operating?	(Yes)	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
A		_
Sampling Sampling Performed?	(Yes)	No
Post Carbon Sample Time	1330	110
Pre-Carbon Sample Time	1340	
Sampling event?	Monthly	Quarter
	Yes	CNo
Recovery and Disposal		
Recovery and Disposal Recovery from DNAPL Drum	0	
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0000	Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u>	0000	Gallons Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	0000	Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0000	Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0000	Gallons Gallons Gallons Gallons Gallons Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	0000	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	0000	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?	0000	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled? Drums palletized?	000 00 00 1 1/1 00	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums Drums labeled?	0000	Gallons Gallons Gallons Gallons Gallons Drums Drums Drums Drums Drums

On another all services in 10		1
Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(No"
Discharge control setting (departure)	N	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.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	L/	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	NO
LNAPL top of pump depth.		Feet
Oil/Water Secondar	3	
<u>Oil/Water Separator</u>		
Water high level shut-off operational?	<u>Ye</u>	No
Red warning light operational?	Ye	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	SNO.
Separator needs cleaning?	Yes	CH9.
Separator cleaned?	Yes	(No)
echnician: Breat Miller	-	
echnician: <u>3 (eat Muller</u> ate: 9-16-11		

Table 4-1

Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal?

New carbon polishing drum?

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3,57	GPM
Totalizer reading (cumulative volume).	302809	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	7	6.5
Filter unit 2 pressure @ Arrival (In /Out)	19	65
Filter unit 1 pressure @ Departure (In/Out)	7	6.5
Filter unit 2 pressure @ Departure (In/Out)	19	6.5
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor

Yes	TNO
5	PSI
Yes	(No)

Good	Poor
Yes	(NB)
3	PSI
Yes	(NO)
Yes	(No)

Coood	Poor
Yes	(No)
1	PSI
Yes	(NO)
Yes	NO

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	6000	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 Heater operational	Yes Yes	No No

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	10103,2	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	Quarterl
Product sampled?	Yes	No
Recovery and Disposal		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	O	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPL/water to oil/water separator.	35	Gallons
Recovery from Oil/Water Separator		
Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
		Calions
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drums
Spent carbon drums		Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	0	Drums
Drums labeled?	AR	No
Drums palletized?	Yes	No

Notes: MW-21 - 6.46 Phimp well - 17,04

	and the second se	
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	(No?
Discharge control setting (departure)	15	Arrow
Refill control setting (departure)	K	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.	103	Feet
LNAPL/Groundwater System		
Operational upon arrival?	Yes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	1	Arrow
LNAPL Pump and Piping		r
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	(No
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>	24	
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
schnician: SMiller		
echnician:		

Table 4-1

LNAPL/Groundwater System - (Continue	ed)	
Transfer Pump and Piping		
Pump operational?	Yes_	No
Pump integrity.	(Good)	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3,64	GPM
Totalizer reading (cumulative volume).	304937	Gallons
Water filters changed?	Yes	(NOS
Filter unit 1 pressure @ Arrival (In/Out)	8	7
Filter unit 2 pressure @ Arrival (In /Out)	18	7
Filter unit 1 pressure @ Departure (In/Out)	8	7
Filter unit 2 pressure @ Departure (In/Out)	18	7
Carbon Treatment Drums		
Primary carbon drum integrity.	(Good)	Poor
Primary carbon drum leaks?	Yes	(No)
Primary carbon drum pressure.	5	PSI
Secondary drum rotated to primary?	Yes	(NO)
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(No)

3

Yes

Yes

Good

Yes

Yes

Yes

PSI

NO

NO

Poor

PSI

(NO)

(No)

NO

Se Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

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	ND
Repairs/work needed?	Tes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	(Ves	No
Heater operational	FF 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. 10111.2 Hours Oil level checked? Yes No Oil level changed? Yes (10) Compressor trap operating? CYes' No Regulator operating? Tes No Air lines performing properly? Cres No Sampling Sampling Performed? CNOS Yes Post Carbon Sample Time Pre-Carbon Sample Time Sampling event? Monthly Quarterly Product sampled? Yes No

Recovery and Disposal		
Recovery from DNAPL Drum	24	
Pure DNAPL to disposal drum.	Ø	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.	Q	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	111	Drums
LNAPL drums	0	Drums
Drums labeled?	(Yes)	No
Drums palletized?	Tesh	No

Notes:

		1		
all the second)a	it	Ē	

DNAPL System		
Operational upon arrival?	(Yes)	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Xes	(No)
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)		Апоw
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
Decam valve integrity.	Cuous	1001
DNAPL Pump and Piping		n
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	No
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	CNO
Discharge control setting (departure)	103	Arrow
Refill control setting (departure)	\leq	Arrow
term control setting (departure)		Thread
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	
LNAPL top of pump depth.		Feet
Oil/Water Separator	3	
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	Pools
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	NO
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	No
echnician BMiller		
echnician: <u>VVIIIEV</u>		
Date: 9-30-11		

Table 4-1

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	(Good)	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3,33	GPM
Totalizer reading (cumulative volume).	O	Gallons
Water filters changed?	Yes	5
Filter unit 1 pressure @ Arrival (In/Out)	15	7,5
Filter unit 2 pressure @ Arrival (In /Out)	18	7.5
Filter unit 1 pressure @ Departure (In/Out)	15	7.5
Filter unit 2 pressure @ Departure (In/Out)	18	7,5
and the second se		

Good

Yes 5,5

Yes

Good

Yes 3

Yes

Yes

Good

Yes

Yes

Yes

Poor No

PSI

(NO)

Poor

No

PSI NO

No

Poor

(No)

PSI

No

No

Poor

Poor

No

Poor

No

Carbon Treatment Drums

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping	
Pipe integrity in shed.	Good
Pipe integrity at catch basin.	(Good)
Pipe at catch basin clear?	(Yes2)
Pipe integrity at creek.	Good
Pipe at creek clear?	Yes

Miscellaneous		
Building and Site	\sim	
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	YEE Yes	No

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	Quarte
Product sampled?	Yes	No
Recovery and Disposal Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	A	Gallon
DNAPL/water to disposal drum.	8	Gallon
DNAPL/water to oil/water separator.	0	Gallon
Bivit Emater to on mater separator.		Callor
Recovery from Oil/Water Separator	<u></u>	
Pure DNAPL to disposal drum.	0	Gallon
DNAPL/water to disposal drum.	C	Gallon
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)		Drum
Spent carbon drums	1	Drum
PPE/Solids drums	111	Drum
	10	Drum
INAPI drums		No
LNAPL drums Drums labeled?	(Yes)	

Notes. - Replace Flowmater Batter

DNAPL System		
Operational upon arrival?	Tee	No
DNAPL pump pressure (arrival)	2.0	PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Агточ
Refill control setting (departure)	K	Arrow
DNAPL Drum		
High level shut off operational?	()es	No
Green warning light operational?	Cles	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	00
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	Godd	Poor
DNAPL pump cleaned?	Yes	AQ.
DNAPL top of pump depth.	-	Feet
INABL/Communication		
LNAPL/Groundwater System Operational upon arrival?	6	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)		PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	(NO
Discharge control setting (departure)	705	Arrow
Refill control setting (departure)		Arrow
(aspariae)	<u> </u>	
LNAPL Pump and Piping		
LNAPL piping integrity.	6000	Poor
LNAPL pump cleaned?	Yes	Be
LNAPL top of pump depth.		Feet
Oll/Water Carried	0	
<u>Oil/Water Separator</u> Water high level shut-off operational?		N
Red warning light operational?	Ces.	No
	(Jas	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	
Separator cover and seal integrity.	Godi	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	<u>(N</u>)
Separator needs cleaning? Separator cleaned?	Yes Yes	<u>(No</u>

Technician: Dariel O'Sullison 16.05-11 Date:

Table 4-1

LNAPL/Groundwater System - (Continued) Transfer Pump and Piping		
Pump integrity.	Good	Poor
Flow meter operational?	(Ces	No
Transfer pump flow rate.	2.67	GPM
Totalizer reading (cumulative volume).	9524	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	16	11
Filter unit 2 pressure @ Arrival (In /Out)	17	11
Filter unit 1 pressure @ Departure (In/Out)	7	7.5
Filter unit 2 pressure @ Departure (In/Out)	8	7.5
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor

Poor

PSI

(B)

Poor

No

PSI

(N)0

(Ja)

Poor

No

PSI

10

No

Yes

Yes

Good

Yes

Yes

Yes

Yes

1

Yes

Yes

2.0

5.5

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Pipe integrity in shed. Poor Good Good Pipe integrity at catch basin. Poor Yea Pipe at catch basin clear? No Good Pipe integrity at creek. Poor Pipe at creek clear? Yes No

Miscellaneous		
Building and Site	0	
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	(N)
Repairs/work needed?	Yes	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Kes	No
Heater operational	Yes	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
	165	
Air Compressor		
Compressor operational?	(Ter	No
Compressor hours.		Hours
Oil level checked?	(Tes	No
Oil level changed?	Yes	(Re
Compressor trap operating?	Yes	No
Regulator operating?	<u></u>	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
		Charles .
Recovery and Disposal		
Recovery from DNAPL Drum		
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.	0	Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.	50	
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0	Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional)	0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product. Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums Drums

Notes: [F.J. On Sike for deweling, stained shed frammy changed makes f. Herris distant do recovery + disposal due to high comparts off water (Unamy through the system

DNAPL pump pressure (departure) 2 G PSI Pneumatic settings adjusted? Yes Arrow Discharge control setting (departure) Arrow Arrow Refill control setting (departure) Arrow Arrow DNAPL Drum High level shut off operational? Arrow Green warning light operational? Yes No DNAPL drum container integrity. Good Poor Leaks present? Yes No DNAPL pump and Piping Dood Poor DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No LNAPL/Groundwater System Image: Position of Po	DNAPL System		
DNAPL pump pressure (departure) Z G PSI Pneumatic settings adjusted? Yes Xes Discharge control setting (departure) Narrow Refill control setting (departure) Narrow DNAPL Drum High level shut off operational? No Green warning light operational? Yes No DNAPL drum container integrity. Good Poor Leaks present? Yes No DNAPL pump and Piping DNAPL pump cleaned? Yes DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No LNAPL/Groundwater System Operational upon arrival? Yes No LNAPL pump pressure (departure) IO PSI PSI Bubbler tube operating pressure. PSI PSI PSI Pneumatic settings adjusted? Yes No PSI Discharge control setting (departure) Xrow Arrow LNAPL Pump and Piping Arrow Yes No Discharge control setting (departure) Xrow Arrow Yes No Discharge control setting (departure) <th>Operational upon arrival?</th> <th>Yes</th> <th>No</th>	Operational upon arrival?	Yes	No
Pneumatic settings adjusted? Yes Discharge control setting (departure) N Refill control setting (departure) N Refill control setting (departure) N DNAPL Drum High level shut off operational? High level shut off operational? Yes DNAPL Drum Yes High level shut off operational? Yes DNAPL drum container integrity. Good Leaks present? Yes Decant valve integrity. Good DNAPL pump and Piping Door DNAPL pump cleaned? Yes DNAPL top of pump depth. Feet INAPL pump pressure (arrival) IO LNAPL Journ pressure (departure) S Bubbler tube operating pressure. PSI Pneumatic settings adjusted? Yes Discharge control setting (departure) Yes Refill control setting (departure) Arrow LNAPL Pump and Piping Arrow LNAPL pump integrity. Yes Ves No Loo PSI S Bubbler tube operating pressure. PSI Pneumatic setti	DNAPL pump pressure (arrival)	20	PSI
Discharge control setting (departure) Arrow Refill control setting (departure) Arrow DNAPL Drum High level shut off operational? Arrow DNAPL drum container integrity. Good Poor DNAPL drum container integrity. Good Poor DNAPL drum container integrity. Good Poor DNAPL pump and Piping DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No LNAPL/Groundwater System Ves No Operational upon arrival? Yes No LNAPL pump pressure (departure) S PSI Bubbler tube operating pressure. PSI PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Yes No LNAPL pump and Piping Arrow Arrow LNAPL pump integrity. Yes No Discharge control setting (departure) Arrow Arrow	DNAPL pump pressure (departure)	20	PSI
Refill control setting (departure) Image: Arrow Arrow Arrow DNAPL Drum High level shut off operational? Image: Arrow Arro	Pneumatic settings adjusted?	Yes	No
DNAPL Drum High level shut off operational? Green warning light operational? DNAPL drun container integrity. Decant valve integrity. Decant valve integrity. Decant valve integrity. Decant valve integrity. DNAPL Pump and Piping DNAPL pump cleaned? DNAPL top of pump depth. Ves Down of pump depth. ENAPL Journ pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pheumatic settings adjusted? Pischarge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL Pump and Piping LNAPL Pump and Piping LNAPL pump integrity.	Discharge control setting (departure)	R	Аггоч
High level shut off operational? Image: Section of the sectin of the section of the section of the section of the section of	Refill control setting (departure)	L.	Arrow
Green warning light operational? Yes No DNAPL drum container integrity. Good Poor Leaks present? Yes Yes Decant valve integrity. Good Poor DNAPL pump and Piping DNAPL pump cleaned? Yes Yes DNAPL pump cleaned? Yes Yes Yes DNAPL top of pump depth. Feet No LNAPL/Groundwater System Feet No Doperational upon arrival? Fees No LNAPL pump pressure (arrival) LO PSI LNAPL pump pressure (departure) S PSI Bubbler tube operating pressure. S PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Yes No LNAPL Pump and Piping Arrow Marrow LNAPL piping integrity. Yes Poor	DNAPL Drum		
DNAPL drum container integrity. Good Poor Leaks present? Yes New Decant valve integrity. Good Poor Decant valve integrity. Good Poor DNAPL Pump and Piping Donaple Poor DNAPL pump cleaned? Yes No DNAPL top of pump depth. Yes No ENAPL/Groundwater System Yes No Doperational upon arrival? Fees No LNAPL pump pressure (arrival) LO PSI LNAPL pump pressure (departure) S PSI Bubbler tube operating pressure. S PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Arrow Arrow LNAPL Pump and Piping Arrow No LNAPL piping integrity. Foor Poor	High level shut off operational?	Fes	No
Leaks present? Yes Decant valve integrity. Good DNAPL Pump and Piping Door DNAPL piping integrity. Good DNAPL pump cleaned? Yes DNAPL top of pump depth. Yes ENAPL/Groundwater System Yes Operational upon arrival? Yes LNAPL pump pressure (arrival) IO LNAPL pump pressure (departure) S Bubbler tube operating pressure. S Pneumatic settings adjusted? Yes Discharge control setting (departure) Arrow Refill control setting (departure) Arrow LNAPL pump and Piping Poor	Green warning light operational?	(Yes)	No
Decant valve integrity. Good Poor DNAPL Pump and Piping DNAPL piping integrity. Good Poor DNAPL piping integrity. Good Poor DNAPL pump cleaned? Yes No DNAPL top of pump depth. Feet No LNAPL/Groundwater System Image: System Image: System Operational upon arrival? Image: System Image: System DNAPL pump pressure (arrival) Image: System Image: System LNAPL pump pressure (departure) Image: System Image: System Bubbler tube operating pressure. Spisition PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Image: Arrow Image: Arrow LNAPL Pump and Piping Image: Arrow Image: Arrow LNAPL piping integrity. Image: Poor Poor	DNAPL drum container integrity.	Good	Poor
DNAPL Pump and Piping DNAPL piping integrity. DNAPL pump cleaned? DNAPL top of pump depth. Yes DNAPL top of pump depth. Feet UNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure. Pneumatic settings adjusted? Yes Discharge control setting (departure) Refill control setting (departure) LNAPL Pump and Piping LNAPL piping integrity.	Leaks present?	Yes	No
DNAPL piping integrity. Image: Constraint of the second secon	Decant valve integrity.	Good	Poor
DNAPL pump cleaned? Yes DNAPL top of pump depth. Yes Ves Yes DNAPL top of pump depth. Feet LNAPL/Groundwater System Operational upon arrival? Yes LNAPL pump pressure (arrival) IO LNAPL pump pressure (departure) IO Bubbler tube operating pressure. S Pneumatic settings adjusted? Yes Discharge control setting (departure) Yes Refill control setting (departure) Arrow LNAPL Pump and Piping LNAPL piping integrity.	DNAPL Pump and Piping		
DNAPL pump cleaned? Yes DNAPL top of pump depth. Feet INAPL/Groundwater System Feet Operational upon arrival? Fees LNAPL pump pressure (arrival) IO LNAPL pump pressure (departure) IO Bubbler tube operating pressure. S Pneumatic settings adjusted? Yes Discharge control setting (departure) I'O Refill control setting (departure) I'O LNAPL Pump and Piping I'O LNAPL piping integrity. Poor	DNAPL piping integrity.	Good	Poor
DNAPL top of pump depth. Feet LNAPL/Groundwater System Operational upon arrival? Operational upon arrival? Fees LNAPL pump pressure (arrival) IO LNAPL pump pressure (departure) IO Bubbler tube operating pressure. 5 Pneumatic settings adjusted? Yes Discharge control setting (departure) IO Refill control setting (departure) IArrow LNAPL Pump and Piping Employee LNAPL piping integrity. Poor	DNAPL pump cleaned?		
Operational upon arrival? Ics No LNAPL pump pressure (arrival) Ico PSI LNAPL pump pressure (departure) Ico PSI Bubbler tube operating pressure. 5 PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Ico Arrow Refill control setting (departure) Ico Arrow LNAPL Pump and Piping Ico Poor	DNAPL top of pump depth.	-	Feet
Operational upon arrival? Ics No LNAPL pump pressure (arrival) Ico PSI LNAPL pump pressure (departure) Ico PSI Bubbler tube operating pressure. 5 PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Ico Arrow Refill control setting (departure) Ico Arrow LNAPL Pump and Piping Ico Poor			
LNAPL pump pressure (arrival) IO PSI LNAPL pump pressure (departure) IO PSI Bubbler tube operating pressure. IO PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) IO Arrow Refill control setting (departure) IO Arrow LNAPL Pump and Piping IO Poor			No
LNAPL pump pressure (departure) ID PSI Bubbler tube operating pressure. S PSI Pneumatic settings adjusted? Yes No Discharge control setting (departure) Arrow Arrow Refill control setting (departure) Arrow Arrow LNAPL Pump and Piping Poor Poor		100	
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. Poor		10	
Pneumatic settings adjusted? Yes No Discharge control setting (departure) >7 Arrow Refill control setting (departure) > Arrow LNAPL Pump and Piping LNAPL piping integrity. Poor		5	
Discharge control setting (departure) Refill control setting (departure) LNAPL Ptump and Piping LNAPL piping integrity. Poor		Yes	
Refill control setting (departure) Arrow LNAPL Pump and Piping LNAPL piping integrity.	and the second	n	
LNAPL piping integrity. Poor	Refill control setting (departure)	N	Arrow
LNAPL piping integrity. Poor	LNAPL Pump and Piping		
	LNAPL piping integrity.	Good	Poor
	LNAPL pump cleaned?		

LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning? Separator cleaned?

Technician: D OSull.van Date: 10.06-1

Table 4-1

Primary carbon drum integrity.

Primary carbon drum pressure.

Secondary carbon drum integrity. Secondary carbon drum leaks?

Secondary carbon drum pressure.

Polishing carbon drum integrity.

Polishing carbon drum pressure.

Polishing carbon drum leaks?

Feet

No

No

Poor

(No>

Poor

Poor

No

(NO>

No

Yes

Tes

Good

Yes

Good

Good

Yes

Yes

Yes

Secondary carbon removed for disposal?

Polishing drum rotated to secondary?

Polishing carbon removed for disposal? New carbon polishing drum?

Secondary drum rotated to primary?

Primary carbon drum leaks?

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	3.27	GPM
Totalizer reading (cumulative volume).	11335	Gallons
Water filters changed?	Yes	(NO)
Filter unit 1 pressure @ Arrival (In/Out)	7	7.5
Filter unit 2 pressure @ Arrival (In /Out)	8	7.5
Filter unit 1 pressure @ Departure (In/Out)		7.5
Filter unit 2 pressure @ Departure (In/Out)		7.5
Carbon Treatment Drums		

7/335 Gallons Yes (No) 7 7.5 8 7.5	. 27	GPM
Yes (No) 7 7.5 8 7.5	11335	Gallons
7 7.5 8 7.5	Yes	(No)
8 7.5	7	7.5
-	8	7.5
7.5		7.5
7.5		7.5

Good	Poor
Yes	(No>
5.5	PSI
Yes	(No)

Good	Poor
Yes	No
7.0	PSI
Yes	No
Yes	No

Good	Poor
Yes	NO
í	PSI
Yes	NO
Yes	No

Good	Poor
6000)	Poor
Yes	No
\$000	Poor
Yes>	No
	(Tes)

Miscellaneous		
Building and Site		
Remediation shed integrity.	Geod	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

Site Visit Checklist/Data Sheet

A		
Access Vaults		r
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?	Yès	No
Air lines performing properly?	Tes	No
Sampling	1	
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		_
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	No
Recovery and Disposal		
Recovery and Disposal Recovery from DNAPL Drum		
	D	Gallons
Recovery from DNAPL Drum	0	Gallons Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.		
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0	Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	0	Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0	Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	0	Gallons Gallons Gallons Gallons Drums Drums Drums

Notes: change red light build hung wood beams to help support insulation Changed filters GET 1056 Finished pumping rolloff 45 well 65 3 drums

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

Date:

10-11-11

Table 4-1

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.49	GPM
Totalizer reading (cumulative volume).	15381.4	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	4
Filter unit 2 pressure @ Arrival (In /Out)	5	4
Filter unit 1 pressure @ Departure (In/Out)	22	8
Filter unit 2 pressure @ Departure (In/Out)	11	8
Carbon Treatment Drums		Deer

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Secondary drum rotated to primary?

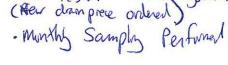
Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon removed for disposal? Polishing drum rotated to secondary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

(Good)	Poor
Good	Poor
Yes	No
Goed	Poor
Yes	No
	Good (Yes) Good

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

Overall vault integrity. Repairs needed to vaults? <u>Air Compressor</u> Compressor operational? Compressor hours. Oil level checked? Oil level changed?	Yes Ves	Poor
<u>Air Compressor</u> Compressor operational? Compressor hours. Oil level checked? Oil level changed?	(Yes) 10131.6	
Compressor operational? Compressor hours. Oil level checked? Oil level changed?	10131.6	
Compressor hours. Oil level checked? Oil level changed?	10131.6	
Oil level checked? Oil level changed?		No
Oil level changed?		Hours
	Yes	No
Compresses trans as a set in = 2	Yes	(No
Compressor trap operating?	Tes	No
Regulator operating?	Yes	No
Air lines performing properly?	Tes	No
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time	1315	
Pre-Carbon Sample Time	1330	1000
Sampling event?	Monthly	Quarterly
Product sampled?	Yes	(NO)
Recovery and Disposal		
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0	Gallons
Recovery from DNAPL Drum	0	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	000	
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	000	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	000000000000000000000000000000000000000	Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums	1/1	Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums



Good	Poor
Yes	NO
6	PSI
Yes	No

Good	Poor
Yes	(No)
3	PSI
Yes	No
Yes	(NO

Good	Poor
Yes	No
1	PSI
Yes	No
Yes	(NO)

(Good)	Poor
Good	Poor
(Yes)	No

 100	
Yes	(No
Good	Poo
Yes	No
	1. S.S

100	
(Good)	Poor
Good	Poor
Yes	No

Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	×	Апоw
DNAPL Drum		N
High level shut off operational? Green warning light operational?	Tes	No
	Yes	No
DNAPL drum container integrity. Leaks present?	Good	Poor
Decant valve integrity.	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?	(Yee	No
LNAPL pump pressure (arrival)	iO	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.		PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	A	Arrow
Refill control setting (departure)	×	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
	Yes	No
LNAPL pump cleaned? LNAPL top of pump depth.		Feet
LNAPL pump cleaned? LNAPL top of pump depth.		Feet
LNAPL pump cleaned? LNAPL top of pump depth. <i>Oil/Water Separator</i>		
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational?		No
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational?	Yes) (Yes)	No No
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity.	Yes (Yes)	No No Poor
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	Yes (Yes) (Yes) Yes	No No Poor
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity.	Yes Yes Good	No No Poor
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Yes Yes Good Good	No No Poor Poor Poor
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Yes (Yes) (Yes) Yes Good Good Yes	No No Poor Poor Poor
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning?	Yes (Yes) (Yes) Yes Good Good Yes Yes	No No Poor Poor Poor
LNAPL pump cleaned? LNAPL top of pump depth. <u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Yes (Yes) (Yes) Yes Good Good Yes	No No Poor Poor Poor

Table 4-1

Primary carbon drum pressure.

Secondary drum rotated to primary?

Secondary carbon drum integrity. Secondary carbon drum leaks?

Secondary carbon drum pressure.

Polishing carbon drum integrity.

Polishing carbon drum pressure.

Polishing carbon drum leaks?

New carbon polishing drum?

Secondary carbon removed for disposal?

Polishing drum rotated to secondary?

Polishing carbon removed for disposal?

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.89	GPM
Totalizer reading (cumulative volume).	22833.5	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	28	6.5
Filter unit 2 pressure @ Arrival (In /Out)	29	6.5
Filter unit 1 pressure @ Departure (In/Out)	29	7
Filter unit 2 pressure @ Departure (In/Out)	33	7_
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No

Good	Poor
Yes	No
5.0	PSI
Yes	No

Bood	Poor
Yes	No
1.5	PSI
Yes	(No)
Yes	(NO)

Good	Poor
Yes	
1.0	PSI
Yes	SSID .
Yes	ND

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)
<u>Electrical and Heating</u> Electric controls operational Heater operational	Yes Yes	No

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	10/36.9	Hours
Oil level checked?	(es)	No
Oil level changed?	Yes	NO
Compressor trap operating?	Yes	No
Regulator operating?	(Yes)	No
Air lines performing properly?	les	No
Sampling		
Sampling Performed?	Yes	(NO)
Post Carbon Sample Time		
Pre-Carbon Sample Time	10 C.C.P	
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.	P	Gallons
Divit Erwater to on water separator.		
Recovery from Oil/Water Separator		
	0	Gallons
Recovery from Oil/Water Separator	0	Gallons Gallons
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	0	
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>		Gallons
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)		Gallons Drums Drums
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Drums Drums Drums
Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Drums Drums

Operational upon arrival?	(Yes	No
DNAPL pump pressure (arrival)	19	PSI
DNAPL pump pressure (departure)	14	PSI
Pneumatic settings adjusted?	Yes	NO
Discharge control setting (departure)	R	Arrow
Refill control setting (departure)	K	Arrow
DNAPL Drum		
High level shut off operational?	(es	No
Green warning light operational?	4 es	No
DNAPL drum container integrity.	Good	Poor
Leaks present?	Yes	8
Decant valve integrity.	Good	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	ତ୍ରେଧ	Poor
DNAPL pump cleaned?	Yes	N
DNAPL top of pump depth.	-	Feet
LNAPL/Groundwater System Operational upon arrival?	(Pas	No
Operational upon arrival?	(Yðs	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	628
Discharge control setting (departure)	7	Аггоw
Refill control setting (departure)	<u> </u>	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	ତ୍ରେମ	Poor
LNAPL pump cleaned?	Yes	<u>O</u>
LNAPL top of pump depth.		Feet
Oil/Water Separator	3	
Water high level shut-off operational?	₩.	No
	\$æ	No
Red warning light operational?	Good	Poor
Red warning light operational? Separator vessel integrity.		SIS-
Separator vessel integrity. Leaks present?	Yes	HU
Separator vessel integrity. Leaks present?	Yes Good	100
Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.		
Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Good	100
Separator vessel integrity. Leaks present? Separator cover and seal integrity.	Good Cood	Poor

10-26-1

Date:

Table 4-1

LNAPL/Groundwater System - (Continued	d)	
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	6000	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.54	GPM
Totalizer reading (cumulative volume).	37837.3	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	27	10
Filter unit 2 pressure @ Arrival (In /Out)	29	11
Filter unit 1 pressure @ Departure (In/Out)	8	7.5
Filter unit 2 pressure @ Departure (In/Out)	8	7.5
<u>Carbon Treatment Drums</u> Primary carbon drum integrity.	Good	Poor
	Yes	
Primary carbon drum leaks? Primary carbon drum pressure.	5	PSI
	Yes	No
Secondary drum rotated to primary?	Tes	<u>No</u>
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	No
Secondary carbon drum pressure.	2	PSI
Secondary carbon removed for disposal?	Yes	613
Polishing drum rotated to secondary?	Yes	60
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	613

Pol Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing carbon removed for disposal? New carbon polishing drum?

Discharge Piping Good Pipe integrity in shed. Poor Good Pipe integrity at catch basin. Poor (Yes) Pipe at catch basin clear? No Good Pipe integrity at creek. Poor Pipe at creek clear? les No

Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	(1)0
Repairs/work needed?	Tes	No
Spill evidence?	Yes	No
<u>Electrical and Heating</u> Electric controls operational Heater operational	(es)	No No

Site Visit Checklist/Data Sheet

		1
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	(No)
<u>Air Compressor</u>		
Compressor operational?	(Yes)	No
Compressor hours.	101449	Hours
Oil level checked?	Yes	No
Oil level changed?	Yes	Nø
Compressor trap operating?	1 Ces	No
Regulator operating?	(Geb	No
Air lines performing properly?	Yes	No
Sampling	1	
Sampling Performed?	Yes	(No)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarteri
	Monthly Yes	Quarteri No
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	Yes O O	Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	Yes	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	Yes O O	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	Yes O O	No Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	Yes O O	No Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	Yes O O	No Gallons Gallons Gallons Gallons Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	Yes O O O	No Gallons Gallons Gallons Gallons Gallons Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	Yes O O O	No Gallons Gallons Gallons Gallons Gallons Drums Drums Drums
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	Yes O O O	No Gallons Gallons Gallons Gallons Gallons Drums Drums

Notes:

PSI

(Nig

NO

Yes

Yes

Operational upon arrival?	Yes	No
DNAPL pump pressure (arrival)	20	PSI
DNAPL pump pressure (departure)	20	PSI
Pneumatic settings adjusted?	(Yes) &	131
Discharge control setting (departure)	K	Arrow
Refill control setting (departure)		Arrow
term control setting (departure)		Allow
DNAPL Drum		
High level shut off operational?	(res	No
Green warning light operational?	Tes	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	Ng
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System		
Operational upon arrival?	(Yes)	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	5	PSI
Pneumatic settings adjusted?	Yes	00
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.	STRIPA 19	Feet
	2	
<u>Oil/Water Separator</u>	Tes	Na
Water high level shut-off operational? Red warning light operational?		No No
Separator vessel integrity.	(Yes)	Poor
	-	NO
Leaks present?	Yes	
Separator cover and seal integrity.	Good	Poop
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	
Separator needs cleaning?	Yes	
Separator cleaned?	Yes	M
echnician: T. Palmer		

Table 4-1

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping	u)	
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.		GPM
	3.00	Gallons
Totalizer reading (cumulative volume). Water filters changed?	75660.1 Yes	No
Filter unit 1 pressure @ Arrival (In/Out)		6.5
Filter unit 2 pressure @ Arrival (In/Out)	7	
Filter unit 1 pressure @ Departure (In/Out)	- di	63
Filter unit 2 pressure @ Departure (In/Out)	8	7.5
Filter unit 2 pressure @ Departure (In/Out)	0	1.5
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	NO
Primary carbon drum pressure.	5	PSI
Secondary drum rotated to primary?	Yes	(No)
eccentury and related to primary i	100	
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	(NO)
Secondary carbon drum pressure.	2	PSI
Secondary earbon removed for disposal?	Yes	No
Polishing drum rotated to secondary?	Yes	(No)
· · · · · · · · · · · · · · · · · · ·		
Polishing carbon drum integrity.	Good	Poor
Polishing carbon drum leaks?	Yes	NO
Polishing carbon drum pressure.	0.5	PSI
Polishing carbon removed for disposal?	Yes	No
New carbon polishing drum?	Yes	No
	L	
Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	(Good)	Poor
Pipe at catch basin clear?	Tes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	res	No
A.C		
Miscellaneous Building and Site		
Building and Site		Deres
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	No
Repairs/work needed?	Yes	NO
Spill evidence?	Yes	(NO)
Electrical and Heating		
Electrical and Heating	Yes	N-
	(YAS)	No
Electric controls operational Heater operational	Tres	No

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	No
<u>Air Compressor</u>		
Compressor operational?	Yes	No
Compressor hours.	10151.1	Hours
Oil level checked?	Tes	No
Oil level changed?	Yes	NO
Compressor trap operating?	Yes	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No
		The second
Sampling		
Sampling Performed?	Yes	No
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal Recovery from DNAPL Drum		
Recovery from DNAPL Drum Pure DNAPL to disposal drum.		
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallon
Recovery from DNAPL Drum Pure DNAPL to disposal drum.	0.5	Gallon
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0.5	Gallon
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0.5	Gallon: Gallon: Gallon:
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0.5	Gallon: Gallon: Gallon:
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0.5	Gallon: Gallon: Gallon:
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0.5	Gallon: Gallon: Gallon: Gallon:
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage		Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallon: Gallon: Gallon: Gallon: Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallon: Gallon: Gallon: Gallon: Drums Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums Drums No

Notes: Turn DMAPL Pressure to 22 Bi and menue dischage time

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

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

Yes

Feet

No

No

Poor Nà

POOP

Poor

No

No

No

No

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operational?	Yes
Red warning light operational?	Ves
Separator vessel integrity.	Good
Leaks present?	Yes
Separator cover and seal integrity.	Good
Decant valve integrity.	Good
LNAPL in separator?	Yes
Separator needs cleaning?	Yes
Separator cleaned?	Yes

11-10-11

Technician:

Date:

Table 4-1

LNAPL/Groundwater System - (Continue	ed)	
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.		GPM
Totalizer reading (cumulative volume).	50425.9	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)		
Filter unit 2 pressure @ Arrival (In /Out)		
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.		PSI
Primary drum removed for disposal?	Yes	No
Secondary carbon drum integrity.	Good	Poor
Secondary carbon drum leaks?	Yes	Nó
Secondary carbon drum pressure.		PSI
Secondary carbon rotated to primary?	Yes	No

Good

Yes

Yes

Yes

Poor

No

PSI

Nð

Poor

Poor

No

Poor

No

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping

Pipe integrity in shed.	Good
Pipe integrity at catch basin.	(Good)
Pipe at catch basin clear?	(Yes)
Pipe integrity at creek.	Good
Pipe at creek clear?	Tes

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

<u>Access Vaults</u> Overall vault integrity. Repairs needed to vaults?	Good	1
· · ·	COULE	Poor
	Yes	N o
Air Comprosor		
<u>Air Compressor</u> Compressor operational?	Yes	NO
Compressor hours.	102912	Hours
Oil level checked?	(Y.es)	No
Oil level changed?	Yes	(NO)
Compressor trap operating?	(Yes)	No
Regulator operating?	(Yes)	No
Air lines performing properly?	(Yes)	No
		Log or an and the second second
Sampling		
Sampling Performed?	Yes	(Nô
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarterly
Product compled?	Yes	No
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum.		Gallons
Product sampled? Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.		Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0	Gallons Gallons
Recovery and Disposal <u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.		Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	00000	Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	00000	Gallons Gallons Gallons Gallons
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	00000	Gallons Gallons Gallons Gallons Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	00000	Gallons Gallons Gallons Gallons Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	00000	Gallons Gallons Gallons Gallons Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums LNAPL drums		Gallons Gallons Gallons Gallons Drums Drums Drums Drums
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	00000	Gallons Gallons Gallons Gallons Drums Drums Drums

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)		Агтом
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
DNADI Dumm and Division	\sim	
DNAPL Pump and Piping DNAPL piping integrity.	C034	
DNAPL pump cleaned?	Good	Poor
a second and the second second second	Yes	N e
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	
Red warning light operational?	Yes	No
Separator vessel integrity.		No
Leaks present?	Good	Poor
1	Yes	No
	Good	Poor
Separator cover and seal integrity.	(Good)	Poor
Decant valve integrity.		(No
Decant valve integrity. NAPL in separator?	Yes	
Decant valve integrity.	Yes Yes Yes	(No)

12

11-11-11

Date:

Table 4-1

LNAPL/Groundwater System - (Continue	ed)	
Transfer Pump and Piping	50	
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	3.40	GPM
Totalizer reading (cumulative volume).	50746.6	Gallons
Water filters changed?	Yes	(No)
Filter unit 1 pressure @ Arrival (In/Out)	9	T.5
Filter unit 2 pressure @ Arrival (In /Out)	8	7
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor
Primary carbon drum leaks?	Yes	No
Primary carbon drum pressure.	5.5	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
eccondary carbon rotated to primary?		
Polishing carbon drum integrity.	(Good)	Poor
Polishing carbon drum leaks?	Yes	No
Polishing carbon drum pressure.	1	PSI
Polishing drum rotated to secondaryl?	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
Flashing and the first		
Electrical and Heating	Cr. S	
Electric controls operational	(Yes'	No
Heater operational	Yes	No

Miscellaneous - (Continued) Access Vaults Overall vault integrity. Good Poor Repairs needed to vaults? (NO) Yes Air Compressor Compressor operational? (No) Yes Compressor hours. 102912 Hours Oil level checked? (Yes) No Oil level changed? No Yes Yes Compressor trap operating? No (Yes) Regulator operating? No Air lines performing properly? Yes No Sampling Sampling Performed? No Yes 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. Gallons 0 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. Gallons DNAPL/water to disposal drum. Gallons Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Drums Spent carbon drums Drums PPE/Solids drums 1/1 Drums LNAPL drums 0 Drums Drums labeled? Yes No Drums palletized? Yes No Notes: Trouble Short anto durin. Seal cracked & value worn. Onche parts, leave compressor off. (Parts in next week) - Onderd and for oil change west week

the second s	and the second s	And a second sec
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?	Tes	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	
		Poor No Feet
DNAPL pump cleaned?		No
DNAPL pump cleaned?		No
DNAPL pump cleaned? DNAPL top of pump depth.		No
DNAPL pump cleaned? DNAPL top of pump depth. LNAPL/Groundwater System	Yes	Feet
DNAPL pump cleaned? DNAPL top of pump depth. LNAPL/Groundwater System Operational upon arrival?	Yes	No Feet
DNAPL pump cleaned? DNAPL top of pump depth. LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival)	Yes	No Feet
DNAPL pump cleaned? DNAPL top of pump depth. LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure)	Yes	No Feet No PSI PSI
DNAPL pump cleaned? DNAPL top of pump depth. LNAPL/Groundwater System Operational upon arrival? LNAPL pump pressure (arrival) LNAPL pump pressure (departure) Bubbler tube operating pressure.	Yes	No Feet No PSI PSI PSI

Good

Yes

Yes

Yes

Good

Yes

Good

Yes

Yes

Yes

Poor

No?

Feet

No

No

Poor

Poor

Poor

No

(NB

(No-

LNAPL Pump and Piping LNAPL piping integrity. LNAPL pump cleaned? LNAPL top of pump depth.

Oil/Water Separator

Water high level shut-off operational?	
Red warning light operational?	
Separator vessel integrity.	
Leaks present?	
Separator cover and seal integrity.	
Decant valve integrity.	
LNAPL in separator?	
Separator needs cleaning?	
Separator cleaned?	

Technician: <u>P. D. Sallun</u> Date: 11-18-11

Table 4-1

Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	357	GPM
Totalizer reading (cumulative volume).	54375.2	Gallons
Water filters changed?	Yes	Nõ
Filter unit 1 pressure @ Arrival (In/Out)	17	5
Filter unit 2 pressure @ Arrival (In /Out)	6	4.5
Filter unit 1 pressure @ Departure (In/Out)	17	7.5
Filter unit 2 pressure @ Departure (In/Out)	7	7.5

Carbon Treatment Drums

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

-Good>	Poor
Yes	No
3	PSI
Yes	No

Poor

No

PSI

NO

Poor

(No

PSI

CNO

(No)

Good

Yes

5.5

Yes

(Good>

Yes

ì

Yes

Yes

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondary!? New carbon polishing drum?

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

Site Visit Checklist/Data Sheet

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

Operational upon arrival?	Yes	NO
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)		PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Алтом
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. DNAPL pump cleaned?	Yes	Poor
DNAPL top of pump depth.		Feet
LNAPL/Groundwater System Operational upon arrival?	Yes	NO
LNAPL pump pressure (arrival)	105	PSI
LNAPL pump pressure (departure)		PSI
		PSI
		1.51
Bubbler tube operating pressure.	Yes	No
Bubbler tube operating pressure. Pneumatic settings adjusted? Discharge control setting (departure)	Yes	No Апоw

Latin Di tump tind i tping	
LNAPL piping integrity.	
LNAPL pump cleaned?	
INAPI, top of pump depth.	

Technician:

Date:

Our nuter Depurator		and a state of the state
Water high level shut-off operational?	Yes	No
Red warning light operational?	Nes .	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	Alo
Separator cover and seal integrity.	Good	Coot
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	(1)
Separator needs cleaning?	Yes	(No
Separator cleaned?	Yes	(XIQ
to the Restaurant and the second of the second s		1

O'Jullivan"

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?	New .	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	Alo
Separator cover and seal integrity.	Good	Coort

LNAPL/Groundwater System - (Continued) Transfer Pump and Piping Pump operational?

Tes Good Pump integrity. Yes Flow meter operational? Transfer pump flow rate. 3.50 Totalizer reading (cumulative volume). 57909. Water filters changed? 27 Filter unit 1 pressure @ Arrival (In/Out) Filter unit 2 pressure @ Arrival (In /Out) 23 Filter unit 1 pressure @ Departure (In/Out) Filter unit 2 pressure @ Departure (In/Out) 10

Table 4-1

Carbon Treatment Drums

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Yes	No
(3000	Poor
Yes	(19
3	PSI
Yes	No

Yes

7

6000

Yes

6

Good

Yes

1

Yes

Yes

No

Poor

No

GPM

Gallons

No

Poor

(Ng PSI

Poor

No PSI

NO

(NO)

5.5

45

7.5

7.5

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping

Good	Poor
Good	Poor
(Yee)	No
ଦ୍ୱେତ୍ତି	Poor
Kes	No
	6000 4400 6600

Miscellaneous Building and Site Remediation shed integrity. Poor Good 000 Shed ventilation acceptable? Yes Repairs/work needed? Yes 00 Spill evidence? Yes Electrical and Heating Electric controls operational (Yes) No (res) No Heater operational

Site Visit Checklist/Data Sheet

Miscellaneous - (Continued)		
Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	- 25-
Air Compressor		
Compressor operational?	Yes	NO
Compressor hours.	102812	Hours
Oil level checked?	Ves	No
Oil level changed?	Yes	NO
Compressor trap operating?	Reg	No
Regulator operating?	Tes	No
Air lines performing properly?	Les	No
Sampling	1	
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
	0	Gallons
DNAPL/water to disposal drum.		
DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0	Gallons
DNAPL/water to oil/water separator.	0	Gallons
DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0	
DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0	
DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>	0	Galions Galions
DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	0	Gallons Gallons Drums
DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)		Gallons Gallons Drums Drums
DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums	0	Gallons Gallons Drums
DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Drums Drums
The state of the s		Galions Galions Drums Drums Drums Drums

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
i i i i i i i i i i i i i i i i i i i		
DNAPL Pump and Piping		
DNAPL piping integrity.	Good	Poor
DNAPL pump cleaned?	Yes	(No
DNAPL top of pump depth.		Feet
	L	
LNAPL/Groundwater System		
Operational upon arrival?	Yes	642
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	6	
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	NO
LNAPL top of pump depth.		Feet
<u>Oil/Water Separator</u>		NT.
Water high level shut-off operational?	(Yes)	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	POOD
Leaks present?	Yes	No
Separator cover and seal integrity.	Good	Poor
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	
Separator needs cleaning?	Yes	No
Separator cleaned?	Yes	(MA)

O'Juillivan

Table 4-1

LNAPL/Groundwater System - (Continue	d)	
Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	(Yes)	No
Transfer pump flow rate.	2.73	GPM
Totalizer reading (cumulative volume).	62177.6	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	4
Filter unit 2 pressure @ Arrival (In /Out)	21	5.5
Filter unit 1 pressure @ Departure (In/Out)		
Filter unit 2 pressure @ Departure (In/Out)		
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor

Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

4.5	PSI
Yes	NO
6000	Poor
Yes	(No)

Yes

Yes

NO

NO

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Pipi Pipe integrity in Pipe integrity a Pipe at catch b

ſ	Good	Poor
[Yes	10
1	i	PSI
1	Yes	(No)
ſ	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.	ରେଲ	Poor
Pipe at creek clear?	Hes	No

Miscellaneous		
Building and Site		
Remediation shed integrity.	Good	Poor
Shed ventilation acceptable?	Yes	₩P
Repairs/work needed?	Yes	(No)
Spill evidence?	Yes	NO
Electrical and Heating	\sim	0
Electric controls operational	The	No
Heater operational	(Yes)	No

Site Visit Checklist/Data Sheet

Access Vaults	-	
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	NO
Air Compressor		-
Compressor operational?	Yes	(No
Compressor hours.	103:09	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
and the second		
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.	Q	Gallons
DNAPL/water to oil/water separator.	0	Gallons
Deserves from Oil Mister Secondar		
<u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum.	0	Gallons
DNAPL/water to disposal drum.	0	Gallons
DNAPDwater to disposal drum.		Galions
Product, Carbon, Waste Storage		
DNAPL drums on-site (full and fractional)	1	Drums
Spent carbon drums	1	Drums
PPE/Solids drums	1/1	Drums
LNAPL drums	-	Drums
	res	No
Drums labeled?		

Technician: Date:

(Paniel

1-30-11

Operational upon arrival?	(Yes'	No
DNAPL pump pressure (arrival)	14 200	PSI
DNAPL pump pressure (departure)	14 14	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)	->	Artow
Refill control setting (departure)	7	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?	Tes	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	G	PSI
Pneumatic settings adjusted?	Yes	(No
Discharge control setting (departure)		Arrow
Refill control setting (departure)	L	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	(No)
INIADY tom of mumor doubt	(Feet
LNAPL top of pump depth.		
<u>Oil/Water Separator</u>		
<u>Oil/Water Separator</u> Water high level shut-off operational?	Yes	No
<u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational?	Tes	No
<u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity.	(res) Good)	No Poor
<u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present?	(Yes) Good Yes	No Poor
<u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity.	Yes Good	No Poor No
<u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Cres Good Yes Good Good	No Poor No Poor Poor
<u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Yes Good Good Yes Yes	No Poor No Poor Poor
<u>Oil/Water Separator</u> Water high level shut-off operational? Red warning light operational? Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Cres Good Yes Good Good	No Poor No Poor Poor

12/09/11

Date:

Table 4-1

LNAPL/Groundwater System - (Continued	d)	
Transfer Pump and Piping		
Pump operational?	Xes	No
Pump integrity.	Good	Poor
Flow meter operational?	Tes	No
Transfer pump flow rate.	1-15	GPM
Totalizer reading (cumulative volume).	76121	Gallons
Water filters changed?	Yes	
Filter unit 1 pressure @ Arrival (In/Out)	21	6.3
Filter unit 2 pressure @ Arrival (In /Out)	33	1.5
Filter unit 1 pressure @ Departure (In/Out)	29	7.5
Filter unit 2 pressure @ Departure (In/Out)	3.	7.5
	- 1	
Carbon Treatment Drums		
Primary carbon drum integrity.	Geoth	Poor
Primary carbon drum leaks?	Yes	COMP-
Primary carbon drum pressure.	5.0	PSI
Primary drum removed for disposal?	Yes	
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. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondaryl? New carbon polishing drum?

Discharge Piping Pipe integrity in shed.

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?	Tes	No

Good

Yes

1

Yes

Yes

Poor

NO

PSI

MO

No

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

Site Visit Checklist/Data Sheet

Access Vaults		
Overall vault integrity.	6000	Poor
Repairs needed to vaults?	Yes	
Air Compressor		
Compressor operational?	Yes	No
Compressor hours.	103455	Hours
Oil level checked?	CYES	No
Oil level changed?	Yes	No
Compressor trap operating?	tes	No
Regulator operating?	Yes	No
Air lines performing properly?	Yes	No
an a		
Sampling		
Sampling Performed?	Yes	(NO)
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.		Gallons Gallons Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0 8	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0 8	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0 8	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0 8	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0 8	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0 8 0	Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)		Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallons Gallons Gallons Gallons Drums Drums Drums

Operational upon arrival?	Yes	NO
DNAPL pump pressure (arrival)		PSI
DNAPL pump pressure (departure)	0	PSI
Pneumatic settings adjusted?	Yes	No
Discharge control setting (departure)		Arrow
Refill control setting (departure)		Arrow
DNAPL Drum		
High level shut off operational?	Yes	No
Green warning light operational?	Tes	No
DNAPL drum container integrity. Leaks present?	Good	Poor
Decant valve integrity.	Yes Good	No
Decant valve integrity.	0000	Poor
DNAPL Pump and Piping		
DNAPL piping integrity.	6000	Poor
DNAPL pump cleaned?	Yes	(NO)
DNAPL top of pump depth.		Feet
		-3727
LNAPL/Groundwater System		
Operational upon arrival?	Ter	No
LNAPL pump pressure (arrival)	10	PSI
LNAPL pump pressure (departure)	10	PSI
Bubbler tube operating pressure.	6	PSI
Pneumatic settings adjusted?	Yes	0
Discharge control setting (departure)	7	Arrow
Refill control setting (departure)	59	Arrow
LNAPL Pump and Piping		
LNAPL piping integrity.	Good	Poor
LNAPL pump cleaned?	Yes	Tho
LNAPL top of pump depth.		Feet
	lar-and a second	
Oil/Water Separator	·	
Water high level shut-off operational?	Tes	No
Red warning light operational?	Yes	No
Separator vessel integrity.	Good	Poor
Leaks present?	Yes	(140)
Separator cover and seal integrity.	Good	2000
Decant valve integrity.	Good	Poor
LNAPL in separator?	Yes	No.
Separator needs cleaning? Separator cleaned?	Yes	(D)
separator creatieu?	Yes	(NO)
echnician: T.P.d.mr ate: 12-16-11	*	
echnician:		

<u>Table 4-1</u>

LNAPL/Groundwater System - (Continue	ed)	58470785
Transfer Pump and Piping		
Pump operational?	Yes	No
Pump integrity.	Good	Poor
Flow meter operational?	Tes	No
Transfer pump flow rate.	2.15	GPM
Totalizer reading (cumulative volume).	90422.0	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	32	10
Filter unit 2 pressure @ Arrival (In /Out)	28	10.5
Filter unit 1 pressure @ Departure (In/Out)	23	7
Filter unit 2 pressure @ Departure (In/Out)	25	7
Carbon Treatment Drums		
Primary carbon drum integrity.	Good	Poor

No

PSI

No

Poor

PSI

Poor

N

PSI

(No)

Yes

6

Yes

0000

Yes

2

Yes

Good

Yes

0.5

Yes

Yes

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure. Polishing drum rotated to secondary!? New carbon polishing drum?

Discharge Piping

Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Goód	Poor
Pipe at catch basin clear?	CES	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?	Ves	No
Spill evidence?	Yes	No
Electrical and Heating		
Electric controls operational	Yes	No
Heater operational	Yes	No

Miscellaneous - (Continued) Access Vaults Good Overall vault integrity. Poor Repairs needed to vaults? No Yes Air Compressor Compressor operational? Yes No 1376.0 Compressor hours. Hours Tes Oil level checked? No Oil level changed? Yes No Tes Compressor trap operating? No Yes Regulator operating? No (NO) Air lines performing properly? Yes 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 O Pure DNAPL to disposal drum. Gallons DNAPL/water to disposal drum. O Gallons DNAPL/water to oil/water separator. 0 Gallons Recovery from Oil/Water Separator Pure DNAPL to disposal drum. Gallons O Ō DNAPL/water to disposal drum. Gallons Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Drums Spent carbon drums Drums PPE/Solids drums Drums LNAPL drums Drums Drums labeled? Yes No Drums palletized? Yes No Notes: Stight ar leak m Certific Panel, Need to orden New tubing and some fittings - DWAPL pimp not pumping and DNHPL will have to pull, clean, and peould soon. Switch of control panel. - Bleach system to more se flow

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)		Агтож
DNAPL Drum		
High level shut off operational?	Yes	50
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
5		
LNAPL/Groundwater System		
Operational upon arrival?	Yes	R
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)	L]	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?	Cles	No
Red warning light operational?	Ves>	No
	Good	Poor
Separator vessel integrity.	Yes	No
Leaks present?	Good	Poor
A reaction of the second se		Poor
Leaks present?	Good	Contraction of the
Leaks present? Separator cover and seal integrity.	Yes	(NO
Leaks present? Separator cover and seal integrity. Decant valve integrity.		(ND)
Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator?	Yes	R R R
Leaks present? Separator cover and seal integrity. Decant valve integrity. LNAPL in separator? Separator needs cleaning?	Yes Yes	(NO)

Table 4-1

LNAPL/Groundwater System - (Continued) <u>Transfer Pump and Piping</u>		
Pump integrity.	Geod	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.36	GPM
Totalizer reading (cumulative volume).	100 518	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	85
Filter unit 2 pressure @ Arrival (In /Out)	26	80
Filter unit 1 pressure @ Departure (In/Out)	25	7.5
Filter unit 2 pressure @ Departure (In/Out)	25	7.5

Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

6	PSI
Yes	()
Good	Poor
Yes	NO
-1	PSI

Poor

NO

Alos

Good

Yes

Yes

Polishing carbon drum integrity.
Polishing carbon drum leaks?
Polishing carbon drum pressure.
Polishing drum rotated to secondaryl?
New carbon polishing drum?

Good	Poor
Yes	No>
ì	PSI
 Yes	NO
Yes	NO

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	6000	Poor
Pipe at catch basin clear?	Yes	No
Pipe integrity at creek.	Good	Poor
Pipe at creek clear?	Nes	No

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

Access Vaults		
Overall vault integrity.	Good	Poor
Repairs needed to vaults?	Yes	(M)
Air Compressor		
Compressor operational?	Yes	NO
Compressor hours.	103760	Hours
Oil level checked?	ব্ৰছ	No
Oil level changed?	Yes	416?
Compressor trap operating?	Yes	No
Regulator operating?	XES	No
Air lines performing properly?	Yes	MOS
Sampling		
Sampling Performed?	Yes	NO
Post Carbon Sample Time		
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal	- 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 1	XX
Recovery from DNAPL Drum		
	6	Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum.		Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	0 0	Gallons
<u>Recovery from DNAPL Drum</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0	Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum.	0 0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0 0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	0 0	Gallons Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional)	0 0	Gallons Gallons Gallons Gallons Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage	0 0	Gallons Gallons Gallons Gallons Drums Drums
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums	0 0	Gallons Gallons Gallons
Recovery from DNAPL Drum Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums	0 0	Gallons Gallons Gallons Gallons Drums Drums Drums

Notes: LNAPL PARK Pour Bleach ed system adjusted flow

Operational upon arrival?	Yes	<no:< th=""></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)		Агтом
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
Operational upon arrival?	Yes	NO
LNAPL/Groundwater System	N.	-
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
01/11/1 5		
<u>Oil/Water Separator</u> Water high level shut-off operational?	Yes	No
	Yes	No
Red warning light operational?	Good	Poor
Red warning light operational? Separator vessel integrity.	The Providence of the Providen	No
Separator vessel integrity.	Yes	
Separator vessel integrity. Leaks present?	Yes Good	Poor
Separator vessel integrity.		Poor
Separator vessel integrity. Leaks present? Separator cover and seal integrity.	Good	Poor
Separator vessel integrity. Leaks present? Separator cover and seal integrity. Decant valve integrity.	Good	

Date: 12/29/1

Table 4-1

Transfer Pump and Piping		
Pump operational?	(Yes)	No
Pump integrity.	Good	Poor
Flow meter operational?	Yes	No
Transfer pump flow rate.	2.07	GPM
Totalizer reading (cumulative volume).	109322	Gallons
Water filters changed?	Yes	No
Filter unit 1 pressure @ Arrival (In/Out)	25	2.5
Filter unit 2 pressure @ Arrival (In /Out)	25	3
Filter unit 1 pressure @ Departure (In/Out)	20	7.5
Filter unit 2 pressure @ Departure (In/Out)	2.0	7.5

Carbon Treatment Drums Primary carbon drum integrity. Primary carbon drum leaks? Primary carbon drum pressure. Primary drum removed for disposal?

Secondary carbon drum integrity. Secondary carbon drum leaks? Secondary carbon drum pressure. Secondary carbon rotated to primary?

Polishing drum rotated to secondaryl? New carbon polishing drum?

Polishing carbon drum integrity. Polishing carbon drum leaks? Polishing carbon drum pressure.

Good	Poor
Yes	(No)
1	PSI
Yes	<no-< td=""></no-<>
Yes	(No-

Good

Yes

4

Yes

Good

Yes

Yes

3

Poor

(No)

PSI

Poor Na

PSI (No>

NO

Discharge Piping		
Pipe integrity in shed.	Good	Poor
Pipe integrity at catch basin.	Good	Poor
Pipe at catch basin clear?	CY.es	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< td=""></no<>
Repairs/work needed?	Yes	No
Spill evidence?	Yes	CNO
Electrical and Heating		
Electric controls operational	CYes	No
Heater operational	(Yes	No

Site Visit Checklist/Data Sheet

Access Vaults	IT	
Overall vault integrity.	Good>	Poor
Repairs needed to vaults?	Yes	No
Air Compressor		
Compressor operational?	Yes	Nos
Compressor hours.	103960	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		A solution
Pre-Carbon Sample Time		
Sampling event?	Monthly	Quarter
Product sampled?	Yes	No
Recovery and Disposal		
Deserves from DNADL Daves		
Recovery from DNAPL Drum		
Pure DNAPL to disposal drum.	0	Gallon
	0	
Pure DNAPL to disposal drum.		Gallon
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator.	0	Gallon
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	6	Gallon Gallon
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum.	0	Gallon Gallon Gallon
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator	6	Gallon Gallon Gallon Gallon Gallon
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>	6	Gallon Gallon Gallon
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u>	6	Gallon Gallon Gallon Gallon
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional)	6	Gallon Gallon Gallon Gallon
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum.		Gallon Gallon Gallon Gallon Drums Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. <u>Recovery from Oil/Water Separator</u> Pure DNAPL to disposal drum. DNAPL/water to disposal drum. <u>Product, Carbon, Waste Storage</u> DNAPL drums on-site (full and fractional) Spent carbon drums PPE/Solids drums		Gallon Gallon Gallon Gallon Drums Drums Drums
Pure DNAPL to disposal drum. DNAPL/water to disposal drum. DNAPL/water to oil/water separator. Recovery from Oil/Water Separator Pure DNAPL to disposal drum. DNAPL/water to disposal drum. Product, Carbon, Waste Storage DNAPL drums on-site (full and fractional) Spent carbon drums		Gallon Gallon Gallon

Notes: dong lyullon of blance ous