Appendix A

Field Forms

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-1
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-24-06	weather	~50° H rain °F

WELL INFORMATION	
Depth to water	11.69' (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
Duplicate Sample collected
water is colorless, transparent
no odor, no sheen, no sediment

PURGE DATA								
start purge time	1059							
time		1109	1112	1115				
~~volume purged~~	~~(gal)~~ DTW(ft)	11.69	11.69	11.69				
purge rate mL	(L/min)	250	250	250				
pH	(Units)	5.94	5.95	5.95				
conductivity mS	(~~umhos~~/cm)	0.055	0.054	0.053				
temperature	(deg C)	8.22	8.18	8.19				
D.O.	(mg/L)	1.28	1.23	1.19				
ORP	(mv)	51.5	51.7	51.7				
turbidity	(NTU)	0.23	0.35	0.15				
purge and sample equip.		Peristaltic pump & silicone / polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-1-0506	1115	NWTPH-Dx	1L Gl. Amber	2 (x2)	HCl
mw-100-0506 (Dup)	1140				

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-2
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-25-06	weather	~50° overcast °F

WELL INFORMATION		
Depth to water	11.43'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent,
no sheen, no odor, no sediment

PURGE DATA								
start purge time	0912							
time		0922	0925	0928				
~~volume purged~~ ~~(gal)~~ DTW (ft)		11.44	11.44	11.44				
purge rate mL	~~(L~~/min)	300	300	300				
pH	(Units)	5.46	5.47	5.46				
conductivity mS	~~(umhos~~/cm)	0.029	0.028	0.028				
temperature	(deg C)	6.98	6.99	7.02				
D.O.	(mg/L)	0.87	0.88	0.89				
ORP	(mv)	44.7	45.0	45.4				
turbidity	(NTU)	0.46	0.33	0.40				
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-2-0506	0930	NWTPH-Dx	1L Gl. Amber	2	HCl
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-3
Project No.	BN050-16423-710	Sampled By	C. Guero
Date	5-25-06	weather	50° overcast °F

WELL INFORMATION		
Depth to water	10.31	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is very slightly cloudy,
very light brownish color
transparent to translucent
no odor, no sheen
fine suspended sediment causing
slight cloudiness

PURGE DATA								
start purge time	1000							
time		1010	1013	1016	1019	1022		
~~volume purged~~	~~(gal)~~ DTW(ft)	10.35	10.37	10.38	10.40	10.41		
purge rate mL	(L/min)	300	300	300	275	275		
pH	(Units)	5.04	5.09	5.15	5.17	5.19		
conductivity mS	~~(umhos~~/cm)	0.035	0.035	0.035	0.035	0.035		
temperature	(deg C)	6.79	6.75	6.77	6.79	6.83		
D.O.	(mg/L)	1.16	1.12	0.91	0.88	0.84		
ORP	(mv)	46.3	45.1	44.8	44.6	44.3		
turbidity	(NTU)	13	20	45	45	38		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-3-0506	1025	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-4
Project No.	BN050-16423-710	Sampled By	C. Geto
Date	5-24-06	weather	~55° lt. rain °F

WELL INFORMATION		
Depth to water	9.60	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
~~Tubing inlet~~ long water is colorless, transparent, no sheen, no sediment
slight musty odor - doesn't smell like NAPL

PURGE DATA								
start purge time	1609							
time		1619	1622	1625	1628			
~~volume purged~~	~~(gal)~~ DTW (ft)	9.62	9.63	9.63	9.63			
purge rate mL	(~~L~~/min)	250	250	250	250			
pH	(Units)	5.60	5.59	5.59	5.60			
conductivity mS	(~~umhos~~/cm)	0.029	0.029	0.029	0.029			
temperature	(deg C)	7.06	7.01	7.02	7.05			
D.O.	(mg/L)	0.62	0.60	0.58	0.56			
ORP	(mv)	46.2	46.4	46.8	46.8			
turbidity	(NTU)	0.82	0.95	1.01	0.89			
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-4-0506	1630	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-6
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/22/06	weather	Cloudy, 50 °F

WELL INFORMATION		
Depth to water	13.11	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	trace	(ft)
Screen interval:		
well condition:		

COMMENTS
Inlet tubing at ~ 14' (TOC)

PURGE DATA								
start purge time	1658							
time			No parameters + product in discharge line					
volume purged	(gal)							
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.	Peristaltic pump + silicone/polyethylene tubing							

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-6-0506	1710	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	~~MW-3~~ MW-7
Project No.	BN050-16423-710	Sampled By	QM
Date	5/22/06	weather	overcast/rain ~50 °F

WELL INFORMATION

Depth to water	13.01	(ft)
Depth of well:	N.M.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS

Tubing Inlet @ 14.01'
1500 calibrated YSI-556 / Lamotte
1535 Conductivity erratic
1540 recalibrate YSI-556
Conductivity

PURGE DATA

start purge time	1525							
time		1550	1553	1556	1559	1602	1605	1608
DTW ~~volume purged~~	~~(gal)~~ (ft)	13.06	13.06	13.06	13.06	NM.	13.06	13.06
purge rate	(L/min)	0.290	0.290	0.290	0.290	0.290	0.290	0.290
pH	(Units)	6.55	6.47	6.39	6.35	6.32	6.33	6.34
conductivity	(umhos/cm)	29	26	24	24	23	23	23
temperature	(deg C)	8.06	7.89	7.80	7.79	7.84	7.77	7.74
D.O.	(mg/L)	0.72	0.64	0.58	0.57	0.45	0.44	0.41
ORP	(mv)	23.6	25.7	27.5	29.3	30.0	30.2	27.5
turbidity	(NTU)	2.1	2.1	2.3	2.4	2.2	2.2	2.5
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
MW-7-0506	1610	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-8
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/24/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	14.28	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	1.41	(ft)
Screen interval:		
well condition:		

COMMENTS
Tubing inlet set at ~15' TOC

PURGE DATA								
start purge time	1634							
time			No parameters collected –					
volume purged	(gal)							
purge rate	(L/min)	0.30	product in discharge line					
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-8-0506	1645	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-9
Project No.	BN050-16423-710	Sampled By	QM
Date	5/23/06	weather	overcast 55 °F

WELL INFORMATION

Depth to water	12.59	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS

Tubing Inlet 13.6'

Collect Blind Field duplicate MW-90-0506

PURGE DATA

start purge time	1322							
time		1338	1341	1344	1347			
~~volume purged~~	~~(gal)~~ (ft)	12.62	N.m.	12.62	N.m.			
purge rate	(L/min)	0.310	0.310	0.310	0.310			
pH	(Units)	6.60	6.61	6.60	6.58			
conductivity	(umhos/cm)	46	46	46	47			
temperature	(deg C)	8.72	8.72	8.72	8.98			
D.O.	(mg/L)	0.19	0.17	0.17	0.16			
ORP	(mv)	38.6	33.9	34.0	33.0			
turbidity	(NTU)	2.7	3.4	3.4				
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
MW-9-0506	1350	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
MW-9-0506	1350	PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~
4p MW-90-0506	1230	NWTPH-Dx	1L Gl Amber	2	HCl
4p MW-90-0506	1230	PAH (8270)	1L Gl Amber	2	None

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-10
Project No.	BN050-16423-710	Sampled By	TM
Date	5/23/06	weather	overcast 55 °F

WELL INFORMATION		
Depth to water	12.30	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet 13.3'

PURGE DATA								
start purge time	1441							
time		1455	1458	1501	1504	1507	1510	
DTW ~~volume purged~~	~~(gal)~~ (ft)	12.31	N.m.	12.31	N.m.	N.m.	12.31	
purge rate	(L/min)	0.305	0.305	0.305	0.305	0.305	0.305	
pH	(Units)	6.51	6.53	6.55	6.50	6.50	6.52	
conductivity	(umhos/cm)	35	35	35	35	35	35	
temperature	(deg C)	7.82	7.70	7.75	7.88	7.83	7.68	
D.O.	(mg/L)	6.66	6.62	6.56	6.52	6.47	6.60	
ORP	(mv)	148.9	154.9	163.6	167.6	174.9	167.4	
turbidity	(NTU)	2.0	1.9	1.6	1.6	1.6	1.6	
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-10-0506	1513	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-11
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/22/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	12.82	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:	none	(ft)
Screen interval:		
well condition:	OK	

COMMENTS
Inlet tubing placed
at ~13.75' TOC

PURGE DATA								
start purge time	1249							
time		1259	1302	1305				
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→				
pH	(Units)	5.35	5.35	5.36				
conductivity	(~~umhos/cm~~ mS/m)	11.4	11.4	11.3				
temperature	(deg C)	8.5	8.6	8.6				
D.O.	(mg/L)	0.60	0.57	0.54				
ORP	(mv)	31	30	28				
turbidity	(NTU)	39	38	41				
purge and sample equip.		Peristaltic Pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-11-0506	1310	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-12
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/25/06	weather	cloudy, 50 °F

WELL INFORMATION		
Depth to water	6.42	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	none	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing bottom at ~ 7.5'

PURGE DATA								
start purge time	0824							
time		0834	0837	0840				
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→				
pH	(Units)	5.16	5.11	5.06				
conductivity	mS/cm ~~(umhos/cm)~~	4.18	4.7	4.7				
temperature	(deg C)	8.9	9.1	9.0				
D.O.	(mg/L)	2.30	2.29	2.27				
ORP	(mv)	222	226	229				
turbidity	(NTU)	43	41	39				
purge and sample equip.		Peristaltic pump ~~w/~~ silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-12-0506	0845	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-13
Project No.	BN050-16423-710	Sampled By	C. Geero
Date	5-24-06	weather	~55° H. rain °F

WELL INFORMATION		
Depth to water	10.42'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent, no odor, no sheen, no sediment

PURGE DATA								
start purge time	1418							
time		1428	1431	1434				
~~volume purged~~	~~(gal)~~ DTW(ft)	10.42	10.42	10.42				
purge rate mL	(L/min)	250	250	250				
pH	(Units)	5.63	5.61	5.59				
conductivity mS	~~(umhos~~/cm)	0.039	0.039	0.039				
temperature	(deg C)	8.93	8.88	8.84				
D.O.	(mg/L)	0.94	0.94	0.92				
ORP	(mv)	48.1	48.8	49.3				
turbidity	(NTU)	0.39	0.52	0.35				
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-13-0506	1440	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-14
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-24-06	weather	~55° partly cloudy °F

WELL INFORMATION	
Depth to water	12.27 (ft)
Depth of well: (LMG) ~~12.0~~ 13.54'	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
water is transparent, colorless, no sheen, no sediment.
Sour odor - not sure if it's a NAPL odor (don't think so)

PURGE DATA								
start purge time	1457							
time		1507	1510	1513				
~~volume purged~~ ~~(gal)~~ DTW (ft)		12.29	12.29	12.29				
purge rate mL	(L/min)	250	250	250				
pH	(Units)	5.55	5.58	5.62				
conductivity mS	(~~umhos~~/cm)	0.038	0.038	0.038				
temperature	(deg C)	8.39	8.40	8.36				
D.O.	(mg/L)	0.90	0.90	0.90				
ORP	(mv)	48.4	48.6	48.8				
turbidity	(NTU)	0.38	0.50	0.40				
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-14-0506	1515	NWTPH-Dx	1L Gl. Amber	2	HCl
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-15
Project No.	BN050-16423-710	Sampled By	QM
Date	5/22/06	weather	overcast 50 °F

WELL INFORMATION		
Depth to water	13.18	(ft)
Depth of well:	N.M.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet 14.2'
orange floculant in H_2O

PURGE DATA

start purge time	1644							
time		1654	1657	1700	1703	1706	1709	
DTW ~~volume purged~~	~~(gal)~~ (ft)	13.20	N.M.	13.20	13.20	13.20	N.M.	
purge rate	(L/min)	0.225	0.225	0.225	0.225	0.225	0.225	
pH	(Units)	6.32	6.30	6.26	6.25	6.24	6.24	
conductivity	(umhos/cm)	24	25	24	24	24	24	
temperature	(deg C)	7.49	7.38	7.35	7.33	7.32	7.30	
D.O.	(mg/L)	4.34	4.13	4.23	4.02	4.02	4.16	
ORP	(mv)	108.5	118.1	122.4	128.9	135.1	138.3	
turbidity	(NTU)	11	11	8.6	7.5	4.5	2.8	
purge and sample equip.		Peristaltic Pump & silicone/polyethylene tubing						

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
MW-15-0506	1712	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-16
Project No.	BN050-16423-710	Sampled By	QM
Date	5/24/06	weather	overcast 55°F

WELL INFORMATION		
Depth to water	14.28	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet 15.3'

PURGE DATA								
start purge time	1129							
time		1142	1145	1148				
~~volume purged~~	~~(gal)~~ (ft)	14.28	N.m.	14.28				
purge rate	(L/min)	0.270	0.270	0.270				
pH	(Units)	6.16	6.20	6.26				
conductivity	(umhos/cm)	36	36	36				
temperature	(deg C)	8.10	8.37	8.54				
D.O.	(mg/L)	5.73	5.76	5.60				
ORP	(mv)	259.4	262.8	261.2				
turbidity	(NTU)	1.4	1.5	1.6				
purge and sample equip.		Peristaltic pump & silicon/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-16-0506	1150	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-17
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/25/06	weather	Cloudy, 50 °F

WELL INFORMATION		
Depth to water	11.92	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	trace	(ft)
Screen interval:		
well condition:		

COMMENTS
Tubing inlet set at ~12.75'

PURGE DATA								
start purge time	0929							
time			No parameters collected - product in discharge line					
volume purged	(gal)							
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.	Peristaltic pump & silicone / polyethylene tubing							

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-17-0506	0940	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-18
Project No.	BN050-16423-710	Sampled By	QM
Date	5/23/06	weather	overcast/rain 55 °F

WELL INFORMATION		
Depth to water	14.06	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Extra sample for Lab QC
Tubing Inlet 15.0'

PURGE DATA								
start purge time	1553							
time		1610	1613	1616	1619	1622		
~~volume purged~~ ~~(gal)~~ (ft)		14.08	N.m.	14.08	N.m.	14.08		
purge rate	(L/min)	0.305	0.305	0.305	0.305	0.305		
pH	(Units)	6.41	6.42	6.45	6.45	6.45		
conductivity	(umhos/cm)	36	36	36	36	36		
temperature	(deg C)	8.38	8.58	8.61	8.62	8.69		
D.O.	(mg/L)	3.90	3.80	3.70	3.61	3.60		
ORP	(mv)	① 187.8	180.5	170.1	167.3	164.6		
turbidity	(NTU)	1.8	1.6	1.5	1.7	1.9		
purge and sample equip.								

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-18-0506	1625	NWTPH-Dx	1L Gl. Amber	~~2~~ 4	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
MW-18-0506	1625	PAH's (Method 8270)	1L Gl. Amber	~~2~~ 4	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

① 1610 ORP = 187.8 mv

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-19
Project No.	BN050-16423-710	Sampled By	QM
Date	5/23/06	weather	overcast 55 °F

WELL INFORMATION		
Depth to water	10.79	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet @ 11.0'

PURGE DATA								
start purge time	1121							
time		1134	1137	1140				
~~volume purged~~	~~(gal)~~ (ft)	10.79	N.m.	10.				
purge rate	(L/min)	0.265	0.265	0.265				
pH	(Units)	6.39	6.38	6.36				
conductivity	(umhos/cm)	29	30	29				
temperature	(deg C)	8.17	8.09	8.06				
D.O.	(mg/L)	5.20	5.17	5.15				
ORP	(mv)	206.5	205.7	203.8				
turbidity	(NTU)	1.3	1.3	1.3				
purge and sample equip.		Peristaltic pump + silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-19-0506	1143	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-20
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/24/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	10.02	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:	Hvy Trace	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing inlet at ~11'

PURGE DATA								
start purge time	1331							
time			No parameters collected					
volume purged	(gal)							
purge rate	(L/min)	0.30	product in discharge					
pH	(Units)		line					
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-20-0506	1345	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-21
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/20/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	13.35	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:	Hvy trace	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing inlet set at ~14.25'

PURGE DATA								
start purge time	1411							
time			No parameters collected -					
volume purged	(gal)		product in discharge line					
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-21-0506	1425	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-22
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/23/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	6.34	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	1.35	(ft)
Screen interval:		
well condition:		

COMMENTS
Tubing inlet at ~ 7.25'

PURGE DATA								
start purge time	1612							
time			No parameters collected —					
volume purged	(gal)		product in discharge line					
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-22-0506	1625	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

pg 1 of 2

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-26
Project No.	BN050-16423-710	Sampled By	QM
Date	5/23/06	weather	rain ~ 50 °F

WELL INFORMATION

Depth to water	7.84	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	missing 2 bolts	

COMMENTS

Tubing Inlet @ 8.8'

PURGE DATA

start purge time	0757									
time		0812	0815	0818	0821	0824	0827	0830	0833	0836
~~volume purged~~	~~(gal)~~ (Ft)	7.94	7.94	N.m.	7.94	N.m.	N.m.	7.94	N.m.	7.94
purge rate	(L/min)	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245
pH	(Units)	6.20	6.22	6.24	6.25	6.25	6.27	6.25	6.27	6.28
conductivity	(umhos/cm)	68	68	67	67	67	67	66	66	66
temperature	(deg C)	9.89	9.78	9.70	9.80	9.73	9.76	9.76	9.80	9.83
D.O.	(mg/L)	0.52	0.42	0.38	0.34	0.30	0.29	0.27	0.25	0.24
ORP	(mv)	78.2	54.2	49.9	46.5	40.8	27.5	23.8	17.3	14.3
turbidity	(NTU)	5.4	3.8	3.5	2.7	2.4	2.1	2.0	2.1	1.8
purge and sample equip.		Peristaltic Pump & silicone/polyethylene tubing								

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
MW-26-0506	0855	NWTPH-Dx	1L Gl. Amber	2	HCl
	—	~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
MW-26-0506	0855	PAH's (Method 8270)	1L Gl. Amber	2	None
	—	~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
	—	~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-27
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/24/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	10.45	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	none	(ft)
Screen interval:		
well condition:	well monument needs replacement	

COMMENTS
Duplicate sample collected
Tubing inlet @ ~11.25'

PURGE DATA								
start purge time	1020							
time		1030	1033	1036	1039			
volume purged	(gal)							
purge rate	(L/min)	0.30	—	—	—			
pH	(Units)	5.23	5.27	5.22	5.22			
conductivity mS/m	(~~umhos/cm~~)	7.3	7.2	7.3	7.2			
temperature	(deg C)	10.5	10.4	10.4	10.4			
D.O.	(mg/L)	1.72	1.51	1.45	1.42			
ORP	(mv)	63	62	62	62			
turbidity	(NTU)	19	17	17	15			
purge and sample equip.		Peristaltic pump & Silicone/PE tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-27-0506	1045	NWTPH-Dx	1L Gl. Amber	2	HCl
MW-270-0506	1055	~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-28
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/22/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	12.80	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:	none	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing inlet at ~ 13.75' BGS

PURGE DATA							
start purge time	1327						
time		1337	~~X~~	~~X~~			
volume purged	(gal)						
purge rate	(L/min) 0.20	Product in discharge					
pH	(Units)						
conductivity	(umhos/cm)	line - no parameters					
temperature	(deg C)						
D.O.	(mg/L)	collected					
ORP	(mv)						
turbidity	(NTU)						
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing					

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-28-0506	1340	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	mw-29
Project No.	BN050-16423-710	Sampled By	QM
Date	5/24/06	weather	overcast 50°F

WELL INFORMATION		
Depth to water	16.66	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Duplicate sample collected (mw-290-0506)
Tubing Inlet 17.7'

PURGE DATA								
start purge time	1028							
time		1044	1047	1050				
~~volume purged~~	~~(gal)~~ (ft)	16.74	N.m.	16.7				
purge rate	(L/min)	0.250	0.250	0.250				
pH	(Units)	6.13	6.14	6.17				
conductivity	(umhos/cm)	23	23	23				
temperature	(deg C)	7.48	7.60	7.58				
D.O.	(mg/L)	9.71	9.49	9.40				
ORP	(mv)	239.3	241.2	241.8				
turbidity	(NTU)	2.0	2.3	1.5				
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
mw-29-0506	1053	Total As & Pb	500 mL Poly	1	HNO3
~~mw-29-0506~~	1053	Diss. As & Pb	500 mL Poly	1	HNO3
mw-290-0506	0900	Total As/Pb	500 mL poly	1	HNO3
mw-290-0506	0900	Diss As/Pb	500 mL poly	1	HNO3

-29-0506 FF

FF

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-31
Project No.	BN050-16423-710	Sampled By	QM
Date	5/23/06	weather	partially Cloudy 60 °F

WELL INFORMATION		
Depth to water	14.51	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet 15.5'

PURGE DATA								
start purge time	1720							
time		1731	1734	1737	1740	1743		
~~volume purged~~	~~(gal)~~ (ft)	14.52	N.m.	N.m.	14.52	N.m.		
purge rate	(L/min)	0.275	0.275	0.275	0.275	0.275		
pH	(Units)	6.75	6.71	6.75	6.77	6.75		
conductivity	(umhos/cm)	23	36	33	34	31		
temperature	(deg C)	7.79	7.29	7.57	7.63	7.63		
D.O.	(mg/L)	7.31	7.30	7.19	7.08	7.06		
ORP	(mv)	167.1	168.1	176.1	179.3	183.6		
turbidity	(NTU)	1.5	1.4	1.3	1.7	1.3		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-31-0506	1745	Total As & Pb	500 mL Poly	1	HNO3
F.F. MW-31-0506	1746	Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-32
Project No.	BN050-16423-710	Sampled By	QM
Date	5/23/06	weather	overcast 50°F

WELL INFORMATION		
Depth to water	8.56	(ft)
Depth of well:	N.M.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet @ 9.6'

PURGE DATA								
start purge time	0935							
time		0950	0953	0956	0959			
~~volume purged~~	~~(gal)~~ (ft)	8.79	8.79	N.M.	8.79			
purge rate	(L/min)	0.245	0.245	0.245	0.245			
pH	(Units)	6.26	6.25	6.24	6.22			
conductivity	(umhos/cm)	28	28	28	28			
temperature	(deg C)	7.30	7.32	7.30	7.27			
D.O.	(mg/L)	2.29	2.15	2.12	2.12			
ORP	(mv)	172.8	180.9	185.2	186.4			
turbidity	(NTU)	2.3	2.3	2.7	2.2			
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION						
	sample number	time	analysis	container	# bottles	preservative	
	MW-32-0506	1002	Total As & Pb	500 mL Poly	1	HNO3	
F.F.	MW-22-0506	1002	Diss. As & Pb	500 mL Poly	1	HNO3	F.F.

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-34
Project No.	BN050-16423-710	Sampled By	QM
Date	5/24/06	weather	overcast 50 °F

WELL INFORMATION		
Depth to water	10.17	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	missing 3 bolts	

COMMENTS
Tubing Inlet 11.2'

PURGE DATA								
start purge time	0924							
time		0939	0942	0945	0948	0951	0954	0957
D. 1. ~~volume purged~~	~~(gal)~~ (ft)	10.22	N.m.	10.22	N.m.	N.m.	10.22	N.m.
purge rate	(L/min)	0.280	0.280	0.280	0.280	0.280	0.280	0.280
pH	(Units)	6.71	6.73	6.73	6.72	6.70	6.67	6.70
conductivity	(umhos/cm)	66	64	63	63	61	61	61
temperature	(deg C)	8.47	8.46	8.44	8.40	8.43	8.38	8.30
D.O.	(mg/L)	1.14	1.22	1.42	1.31	1.96	1.94	1.94
ORP	(mv)	98.9	98.2	98.8	100.0	104.4	106.9	106.4
turbidity	(NTU)	1.8	1.9	1.9	2.5	1.7	2.1	2.2
purge and sample equip.		peristaltic pump & silicone / polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-34-0506	1000	NWTPH-Dx	1L Gl. Amber	2	HCl
MW-34-0506	1000	Total As & Pb	500 mL Poly	1	HNO3
MW-34-0506	1000	Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-35
Project No.	BN050-16423-710	Sampled By	QM
Date	5/24/06	weather	rain ~50 °F

WELL INFORMATION		
Depth to water	11.69	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	———	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	missing 3 bolts	

COMMENTS
Tubing Inlet 12.7'

PURGE DATA								
start purge time	0826							
time		0840	0843	0846	0849			
D.W. ~~volume purged~~	~~(gal)~~ (ft)	11.71	N.M.	11.71	N.M.			
purge rate	(L/min)	0.260	0.260	0.260	0.260			
pH	(Units)	6.44	6.45	6.45	6.45			
conductivity	(umhos/cm)	66	69	68	66			
temperature	(deg C)	9.15	9.12	9.15	9.14			
D.O.	(mg/L)	0.25	0.23	0.22	0.21			
ORP	(mv)	74.7	75.2	74.9	74.2			
turbidity	(NTU)	2.2	1.7	1.6	1.7			
purge and sample equip.		Peristaltic pump & Silicone/Polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-35-0506	0852	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
MW-35-0506	0852	PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-36
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/24/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	6.88	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	0.77	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing Inlet set at ~ 7.5'

PURGE DATA								
start purge time	0912							
time			No parameters collected –					
volume purged	(gal)							
purge rate	(L/min)	0.30	product in discharge line					
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.	Peristaltic pump & silicone/polyethylene tubing							

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-36-0506	0925	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-37
Project No.	BN050-16423-710	Sampled By	RM
Date	5/23/06	weather	overcast/rain ~55°F

WELL INFORMATION		
Depth to water	9.02	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	~~NA~~ n.m	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	missing 3 bolts	

COMMENTS
Tubing Inlet @ 10.0'

PURGE DATA								
start purge time	1205							
time		1217	1220	1223	1226	1229	1232	1235
~~volume purged~~	~~(gal) (ft)~~	9.03	N.m.	9.03	N.m.	N.m.	9.03	N.m.
purge rate	(L/min)	0.310	0.310	0.310	0.310	0.310	0.310	0.310
pH	(Units)	6.43	6.45	6.42	6.42	6.40	6.39	6.39
conductivity	(umhos/cm)	37	37	37	37	37	37	37
temperature	(deg C)	7.67	7.58	7.64	7.60	7.64	7.67	7.57
D.O.	(mg/L)	0.28	0.18	0.12	0.12	0.11	0.11	0.10
ORP	(mv)	17.4	14.7	10.9	8.5	10.2	10.4	9.5
turbidity	(NTU)	1.6	1.5	1.4	1.5	1.5	1.7	
purge and sample equip.		Silicone & polyethylene tubing, peristaltic pump						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-37-0506	1238	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
MW-37-0506	1238	PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-38
Project No.	BN050-16423-710	Sampled By	KM
Date	5/23/06	weather	overcast 55 °F

WELL INFORMATION		
Depth to water	4.65	(ft)
Depth of well:	N.M.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	monument broke, missing 3 bolts	

COMMENTS
5.7 ⇒ Tubing Inlet

PURGE DATA								
start purge time	1027							
time		1041	1044	1047	1050	1053	1056	
DTW ~~volume purged~~	~~(gal)~~ (ft)	4.65	4.65	N.M.	4.65	N.M.	4.65	
purge rate	(L/min)	0.245	0.245	0.245	0.245	0.245	0.245	
pH	(Units)	6.79	6.81	6.79	6.78	6.78	6.78	
conductivity	(umhos/cm)	56	59	57	58	58	57	
temperature	(deg C)	8.77	8.71	8.68	8.66	8.67	8.68	
D.O.	(mg/L)	0.39	0.25	0.30	0.25	0.26	0.27	
ORP	(mv)	151.1	155.5	158.4	158.8	161.6	163.5	
turbidity	(NTU)	1.6	1.5	1.3	1.3	1.2	1.3	
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-38-0506	1059	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-39
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/24/06	weather	Cloudy, 50 °F

WELL INFORMATION		
Depth to water	9.85	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	none	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing inlet set at ~10.5'

PURGE DATA								
start purge time	1131							
time		1141	1144	1147	1150			
volume purged	(gal)							
purge rate	(L/min)	0.30	→	→	→			
pH	(Units)	5.17	5.17	5.16	5.16			
conductivity mS/m	~~(umhos~~/cm)	6.8	6.8	6.9	7.0			
temperature	(deg C)	8.2	8.0	8.0	8.1			
D.O.	(mg/L)	0.40	0.38	0.38	0.38			
ORP	(mv)	28	33	32	32			
turbidity	(NTU)	33	22	30	31			
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-39-0506	1155	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	MW-40
Project No.	BN050-16423-710	Sampled By	QM
Date	5/24/06	weather	overcast 55 °F

WELL INFORMATION		
Depth to water	12.78	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet 13.8'

PURGE DATA								
start purge time	1212							
time		1221	1224	1227				
~~volume purged~~	~~(gal)~~ (ft)	12.78	N.m.	12.78				
purge rate	(L/min)	0.300	0.300	0.300				
pH	(Units)	6.51	6.48	6.48				
conductivity	(umhos/cm)	26	26	26				
temperature	(deg C)	8.36	8.37	8.40				
D.O.	(mg/L)	6.50	6.35	6.30				
ORP	(mv)	235.3	240.4	243.2				
turbidity	(NTU)	1.7	1.8	2.4				
purge and sample equip.		Peristaltic Pump & Silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
MW-40-0506	1230	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-1
Project No.	BN050-16423-710	Sampled By	C. Gasso
Date	5/22/06	weather	~60° raining °F

WELL INFORMATION	
Depth to water	13.07 (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
water is colorless, transparent, no odor, no sheen, no sediment

PURGE DATA								
start purge time	0958							
time		1008	1011	1014	1017	1020		
~~volume purged~~ DTW	~~(gal)~~ DTW (ft)	13.14	13.14	13.15	13.15	13.15		
purge rate	(L/min)							
pH	(Units)	6.07	6.07	6.10	6.10	6.09		
conductivity mS	(~~umhos~~/cm)	0.255	0.180	0.174	0.171	0.168		
temperature	(deg C)	10.35	10.35	10.33	10.30	10.29		
D.O.	(mg/L)	2.72	2.57	2.55	2.66	2.59		
ORP	(mv)	70.2	70.3	69.8	70.3	70.3		
turbidity	(NTU)	7.9	7.3	4.7	3.2	3.4		
purge and sample equip.		Peristaltic Pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1A-W-1-0506	1025 →	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
	→	PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-2
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/23/06	weather	Cloudy, 50 °F

WELL INFORMATION		
Depth to water	11.30	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:	Hry trace	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Inlet tubing @ ~12'

PURGE DATA								
start purge time	1515							
time		No parameters collected – product in discharge line						
volume purged	(gal)							
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
1A-W-2-0506	1530	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-3
Project No.	BN050-16423-710	Sampled By	C. Geese
Date	5-22-06	weather	50° overcast °F

WELL INFORMATION		
Depth to water	6.44'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
Duplicate sample collected
water is colorless, transparent,
no sheen, no odor, no sediment

PURGE DATA								
start purge time	1435							
time		1445	1448	1451	1454	1457		
~~volume purged~~	~~(gal)~~ DTW (ft)	6.47	6.48	6.48	6.48	6.48		
purge rate mL	(L/min)	250	250	250	250	250		
pH	(Units)	6.06	6.05	6.05	6.05	6.09		
conductivity mS	(~~umhos~~/cm)	0.095	0.088	0.084	0.083	0.082		
temperature	(deg C)	9.46	9.32	9.21	9.23	9.21		
D.O.	(mg/L)	1.59	1.84	1.47	1.43	1.49		
ORP	(mv)	54.4	54.5	55.2	55.6	55.8		
turbidity	(NTU)	0.55	0.35	0.34	0.47	0.43		
purge and sample equip.		Peristaltic pump & silicone / Polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1A-W-3-0506	1500	NWTPH-Dx	1L Gl. Amber	2	HCl
1A-W-30-0506 (dup)	1530				

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-4
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-22-06	weather	~50° overcast °F

WELL INFORMATION		
Depth to water	7.30'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent
no odor, no sheen, no sediment

PURGE DATA								
start purge time	1531							
time		1541	1544	1547				
~~volume purged~~	~~(gal)~~ DTW(ft)	7.32	7.32	7.32				
purge rate	mL/min)	300	300	300				
pH	(Units)	6.25	6.22	6.21				
conductivity mS	(~~umhos~~/cm)	0.068	0.068	0.068				
temperature	(deg C)	8.56	8.60	8.63				
D.O.	(mg/L)	1.81	1.78	1.77				
ORP	(mv)	57.8	58.0	58.0				
turbidity	(NTU)	0.23	0.19	0.27				
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1A-W-4-050	1550	NWTPH-Dx	1L Gl. Amber	2	HCl
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1A-W-5
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-23-06	weather	50° lt. rain °F

WELL INFORMATION		
Depth to water	7.36'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
bentonite seal swelling up into monument - cleaned out approx. 1-2 Liters' volume.
water is colorless, transparent, no sheen, no odor, no sediment

PURGE DATA								
start purge time	0844							
time		0854	0857	0900				
~~volume purged~~	~~(gal)~~ DTW (ft)	7.37	7.37	7.37				
purge rate mL	~~(L~~/min)	250	250	250				
pH	(Units)	6.14	6.06	6.15				
conductivity mS	~~(umhos~~/cm)	0.069	0.069	0.069				
temperature	(deg C)	8.70	8.59	8.63				
D.O.	(mg/L)	1.69	1.54	1.65				
ORP	(mv)	54.8	55.7	55.9				
turbidity	(NTU)	0.55	0.33	0.65				
purge and sample equip.		Peristaltic Pump & silicone / polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1A-W-5-0506	0905	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1B-W-1
Project No.	BN050-16423-710	Sampled By	DWC
Date	5/23/06	weather	Cloudy, 50 °F

WELL INFORMATION		
Depth to water	10.51	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	Lt trace	(ft)
Screen interval:		
well condition:		

COMMENTS
Tubing inlet at ~ 11.25' bgs

PURGE DATA								
start purge time	1435							
time			No parameters collected -					
volume purged	(gal)		product in discharge line					
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.	Peristaltic pump & silicone/polyethylene tubing							

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1B-W-1-0506	1450	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1B-W-2
Project No.	BN050-16423-710	Sampled By	C. Geero
Date	5-23-06	weather	~50° overcast °F

WELL INFORMATION	
Depth to water	12.28' (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
water is colorless, transparent, no odor, no sheen, no sediment

PURGE DATA								
start purge time	0943							
time		0953	0956	0959	1002	1005	1008	
~~volume purged~~	~~(gal)~~ DTW (ft)	12.36	12.36	12.37	12.37	12.37	12.37	
purge rate mL	(~~L~~/min)	250	250	250	250	250	250	
pH	(Units)	6.24	6.08	6.03	5.99	5.95	5.92	
conductivity mS	(~~umhos~~/cm)	0.171	0.139	0.124	0.119	0.114	0.112	
temperature	(deg C)	8.58	8.58	8.59	8.60	8.63	8.65	
D.O.	(mg/L)	2.04	1.89	1.75	1.68	1.61	1.58	
ORP	(mv)	52.8	54.0	54.3	54.6	54.7	54.8	
turbidity	(NTU)	1.11	0.81	1.15	0.99	0.89	0.95	
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1B-W-2-0506	1010	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		EPH (extractable)	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1B-W-3
Project No.	BN050-16423-710	Sampled By	C. Guzo
Date	5-22-06	weather	50° overcast °F

WELL INFORMATION		
Depth to water	13.29	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent,
no sheen, no odor, no sediment

PURGE DATA								
start purge time	1645							
time		1655	1658	1701	1704	1707		
~~volume purged~~	~~(gal)~~ DTW(ft)	13.29	13.29	13.29	13.29	13.29		
purge rate	(L/min)	300	300	300	300	300		
pH	(Units)	6.05	5.94	5.93	5.95	5.94		
conductivity mS	(~~umhos~~/cm)	0.088	0.085	0.083	0.081	0.080		
temperature	(deg C)	8.89	8.93	8.89	8.92	8.85		
D.O.	(mg/L)	1.78	2.16	1.77	1.73	1.70		
ORP	(mv)	56.8	57.0	56.9	56.7	56.8		
turbidity	(NTU)	0.70	1.3	0.30	0.20	0.40		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1B-W-3-0506	1710	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	IC-W-1
Project No.	BN050-16423-710	Sampled By	C. Guzo
Date	5-23-06	weather	55° overcast °F

WELL INFORMATION	
Depth to water	~~9.07~~ (DMG) 11.74' (ft)
Depth of well:	(ft)
Well diameter:	2" (in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS

PURGE DATA								
start purge time	1316							
time		1326	1329	1332				
~~volume purged~~	~~(gal)~~ DTW(ft)	11.75	11.75	11.75				
purge rate mL	(L/min)	300	300	300				
pH	(Units)	5.75	5.74	5.74				
conductivity mS	(~~umhos~~/cm)	0.049	0.049	0.049				
temperature	(deg C)	8.54	8.55	8.58				
D.O.	(mg/L)	1.31	1.34	1.38				
ORP	(mv)	55.5	55.9	56.1				
turbidity	(NTU)	1.7	2.1	1.5				
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
IC-W-1-0506	1335	NWTPH-Dx	1L Gl. Amber	2	HCl
	~~—~~	~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
	~~—~~	~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
	~~—~~	~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	IC-W-2
Project No.	BN050-16423-710	Sampled By	GGero
Date	5-22-06	weather	50° overcast °F

WELL INFORMATION		
Depth to water	7.94	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent,
no odor, no sheen, no sediment

PURGE DATA								
start purge time	1737							
time		1747	1750	1753				
~~volume purged~~	~~(gal)~~ DTW(ft)	7.94	7.94	7.94				
purge rate mL	(L/min)	300	300	300				
pH	(Units)	5.69	5.65	5.67				
conductivity mS	~~(umhos~~/cm)	0.060	0.060	0.057				
temperature	(deg C)	9.23	9.17	9.15				
D.O.	(mg/L)	1.85	1.83	1.79				
ORP	(mv)	58.3	58.7	58.9				
turbidity	(NTU)	0.20	0.20	0.15				
purge and sample equip.		Peristaltic Pump & silicone / polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
IC-W-2-0506	1755	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	1C-W-3
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-23-06	weather	~50° Hirah °F

WELL INFORMATION		
Depth to water	9.07'	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent,
no odor, no sheen, no sediment

PURGE DATA								
start purge time	1113							
time		1123	1126	1129	1132			
~~volume purged~~	~~(gal)~~ DTW (ft)	9.09	9.10	9.10	9.10			
purge rate mL	(~~L~~/min)	200	200	200	200			
pH	(Units)	6.09	6.05	6.04	6.00			
conductivity mS	(~~umhos~~/cm)	0.059	0.058	0.058	0.057			
temperature	(deg C)	8.83	8.62	8.57	8.52			
D.O.	(mg/L)	0.94	1.06	1.10	1.14			
ORP	(mv)	52.3	52.9	53.2	54.0			
turbidity	(NTU)	0.99	0.83	0.80	0.95			
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
1C-W-3-0506	1135	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	IC-W-4
Project No.	BN050-16423-710	Sampled By	C. Guero
Date	5-23-06	weather	~50° overcast °F

WELL INFORMATION		
Depth to water	8.95'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent,
no sheen, no sediment
→ very faint NAPL odor

PURGE DATA								
start purge time	1209							
time		1219	1222	1225	1228	1231		
~~volume purged~~	~~(gal)~~ DTW (ft)	8.97	8.97	8.97	8.98	8.98		
purge rate mL	(~~L~~/min)	250	250	250	250	250		
pH	(Units)	5.56	5.55	5.54	5.53	5.52		
conductivity mS	(~~umhos~~/cm)	0.058	0.058	0.057	0.057	0.057		
temperature	(deg C)	8.03	8.02	8.00	7.97	7.98		
D.O.	(mg/L)	0.87	0.77	0.68	0.64	0.61		
ORP	(mv)	53.9	54.6	54.8	55.2	55.3		
turbidity	(NTU)	1.20	1.34	1.04	0.90	1.09		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
IC-W-4-0506	1235	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-1
Project No.	BN050-16423-710	Sampled By	C. Cuero
Date	5-23-06	weather	55° overcast °F

WELL INFORMATION		
Depth to water	10.30'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
Duplicate sample collected
NAPL blebs observed - no parameters collected.
Purged for 15 min before filling bottles

PURGE DATA								
start purge time	1431							
time								
volume purged	(gal)							
purge rate	(L/min)							
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

NO PARAMETERS

NAPL IN TUBING

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-1-0506	1450	NWTPH-Dx	1L Gl. Amber	2 (x 2)	HCl
2A-W-100-0506	1515	~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
(Dup)		PAH's (Method 8270)	1L Gl. Amber	2 (x 2)	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	ZA-W-2
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-23-06	weather	55° overcast °F

WELL INFORMATION		
Depth to water	11.10'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent, no odor, no sheen, no sediment

PURGE DATA								
start purge time	1550							
time		1600	1603	1606	1609	1612		
~~volume purged~~	~~(gal)~~ DTW (ft)	11.14	11.14	11.14	11.14	11.14		
purge rate mL	(L/min)	300	300	300	300	300		
pH	(Units)	5.80	5.77	5.73	5.77	5.77		
conductivity mS	(~~umhos~~/cm)	0.103	0.095	0.089	0.087	0.086		
temperature	(deg C)	9.72	9.64	9.53	9.58	9.63		
D.O.	(mg/L)	1.34	1.24	1.11	1.08	1.09		
ORP	(mv)	48.5	49.3	48.9	48.7	49.1		
turbidity	(NTU)	1.7	0.60	0.80	0.70	0.65		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
ZA-W-2-0506	1615	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-3
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/22/06	weather	Rainy, 52 °F

WELL INFORMATION		
Depth to water	10.71	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:	none	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing Inlet at ~ 11.5' bgs

PURGE DATA								
start purge time	1459							
time		1509	1512	1515				
volume purged	(gal)							
purge rate	(L/min)	0.30	—	—				
pH	(Units)	5.58	5.61	5.60				
conductivity mS/m	(~~umhos/cm~~)	8.0	7.9	7.9				
temperature	(deg C)	8.4	8.5	8.4				
D.O.	(mg/L)	0.47	0.48	0.46				
ORP	(mv)	10	9	9				
turbidity	(NTU)	140	135	128				
purge and sample equip.	Peristaltic pump & silicone/polyethylene tubing							

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-3-0506	1520	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-4
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/22/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	10.87	(ft)
Depth of well:		(ft)
Well diameter:	2	(in)
Feet of water:		(ft)
Product thickness:	Very trace	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Extra sample collected for Lab QC
Tubing inlet at ~ 11.5' bgs

PURGE DATA								
start purge time	1542							
time		No parameters collected —						
volume purged	(gal)	product in discharge line						
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
2A-W-4-0506	1555	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~6~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~6~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~
		Total As & Pb	500 mL Poly	2	HNO3
		Diss. As & Pb	500 mL Poly	2	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-5
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-24-06	weather	~50° lt. rain °F

WELL INFORMATION	
Depth to water	~~10.49~~ (CMG) 12.92' (ft)
Depth of well:	(ft)
Well diameter:	2" (in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
water is transparent to very slightly cloudy; very faint orange color; no odor; no sheen; very fine suspended sediment / Fe ox floc(?) - clearing up as purge progresses
pH is bouncing around somewhat

PURGE DATA								
start purge time	1003							
time		1013	1016	1019				
~~volume purged~~	~~(gal)~~ DTW (ft)	13.06	13.08	13.08				
purge rate mL	~~(L~~/min) (CMG)	250	250	250				
pH	(Units) 5.97	8.12	5.54	5.53				
conductivity mS	~~(umhos~~/cm)	0.076	0.078	0.079				
temperature	(deg C)	8.12	8.16	8.14				
D.O.	(mg/L)	1.89	1.74	1.69				
ORP	(mv)	50.8	50.8	51.0				
turbidity	(NTU)	0.84	0.69	0.90				
purge and sample equip.		Peristaltic pump + silicone / polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-5-0506	1020	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-6
Project No.	BN050-16423-710	Sampled By	C. Guzzo
Date	5-23-06	weather	60° sunny °F

WELL INFORMATION		
Depth to water	10.40	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent, no sheen, nosediment, possible very faint NAPL odor

PURGE DATA								
start purge time	1642		1701	1704				
time		1652	1655	1658	~~1702~~	~~1705~~		
~~volume purged~~	~~(gal)~~ DTW (ft)	10.41	10.41	10.41	10.41	10.41		
purge rate mL	(~~L~~/min)	300	300	300	300	300		
pH	(Units)	5.78	5.74	5.74	5.73	5.73		
conductivity mS	(~~umhos~~/cm)	0.087	0.087	0.085	0.088	0.086		
temperature	(deg C)	11.73	11.27	11.20	11.25	11.26		
D.O.	(mg/L)	0.89	0.75	0.64	0.59	0.57		
ORP	(mv)	49.3	49.2	49.4	49.3	49.3		
turbidity	(NTU)	1.3	1.7	1.5	1.7	1.7		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-6-0506	1710	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-7
Project No.	BN050-16423-710	Sampled By	C. Guero
Date	5-24-06	weather	~50° H rain °F

WELL INFORMATION	
Depth to water	10.49' (ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS
Duplicate sample collected
water is colorless, transparent,
no odor, no sheen, no sediment

PURGE DATA								
start purge time	0909							
time		0919	0922	0925	0928	0931		
~~volume purged~~ ~~(gal)~~ DTW(ft)		10.49	10.49	10.49	10.49	10.49		
purge rate mL	(L/min)	250	300	300	300	300		
pH	(Units)	5.71	5.72	5.74	5.77	5.75		
conductivity mS	(~~umhos~~/cm)	0.050	0.050	0.049	0.049	0.049		
temperature	(deg C)	7.59	7.57	7.53	7.52	7.50		
D.O.	(mg/L)	3.77	2.80	2.48	2.35	2.27		
ORP	(mv)	49.8	50.8	51.6	52.0	51.7		
turbidity	(NTU)	0.50	0.35	0.15	0.30	0.35		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-7-0506	0935	NWTPH-Dx	1L Gl. Amber	2 (x2)	HCl
~~2A-W-70-0506~~ (Dup)	1000				

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-8
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-24-06	weather	~55° overcast °F

WELL INFORMATION		
Depth to water	13.89'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent, no odor, no sheen, no sediment

PURGE DATA								
start purge time	1141							
time		1151	1154	1157	1200			
~~volume purged~~	~~(gal)~~ DTW(ft)	13.96	13.96	13.97	13.97			
purge rate mL	(L/min)	250	250	250	250			
pH	(Units)	5.63	5.56	5.57	5.59			
conductivity mS	(~~umhos~~/cm)	0.084	0.085	0.085	0.085			
temperature	(deg C)	8.15	8.14	8.06	8.04			
D.O.	(mg/L)	1.91	2.04	2.02	2.02			
ORP	(mv)	52.0	52.3	52.5	52.6			
turbidity	(NTU)	2.49	1.59	1.32	1.51			
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-8-0506	1205	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-9
Project No.	BN050-16423-710	Sampled By	QM
Date	5/24/06	weather	overcast °F

WELL INFORMATION		
Depth to water	10.33	(ft)
Depth of well:	N.M.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet: 11.3'

PURGE DATA								
start purge time	1304							
time		1316	1319	1322				
~~volume purged~~	~~(gal)~~ (ft)	10.43	N.M	10.43				
purge rate	(L/min)	0.285	0.285	0.285				
pH	(Units)	6.53	6.50	6.50				
conductivity	(umhos/cm)	35	36	36				
temperature	(deg C)	9.92	9.82	9.79				
D.O.	(mg/L)	0.22	0.21	0.22				
ORP	(mv)	103.4	101.2	100.2				
turbidity	(NTU)	2.0	2.0	1.7				
purge and sample equip.		Peristaltic pump/silicone & polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-9-0506	1325	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
2A-W-9-0506	1325	PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-10
Project No.	BN050-16423-710	Sampled By	QM
Date	5/24/06	weather	overcast/ rain 50 °F

WELL INFORMATION		
Depth to water	10.88	(ft)
Depth of well:	N.m.	(ft)
Well diameter:	2	(in)
Feet of water:	—	(ft)
Product thickness:	None	(ft)
Screen interval:	NA	
well condition:	Good	

COMMENTS
Tubing Inlet: 11.9'

PURGE DATA								
start purge time	1349							
time		1359	1402	1405	1408	1411		
~~volume purged~~	~~(gal)~~ (ft)	N.m.	N.m.	11.05	N.m.			
purge rate	(L/min)	0.245	0.245	0.245	0.245	0.245		
pH	(Units)	6.11	6.13	6.13	6.11	6.13		
conductivity	(umhos/cm)	23	23	23	23	23		
temperature	(deg C)	9.62	9.52	9.45	9.56	9.51		
D.O.	(mg/L)	0.54	0.41	0.37	0.39	0.37		
ORP	(mv)	201.3	198.5	199.5	198.6	196.1		
turbidity	(NTU)	4.3	2.9	3.3	3.9	2.3		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-10-0506	1415	NWTPH-Dx	1L Gl. Amber	2	HCl

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2A-W-11
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/25/06	weather	Cloudy, 50 °F

WELL INFORMATION		
Depth to water	8.17	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	Hydrocarbon	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing inlet set at ~ 9'

PURGE DATA								
start purge time	0851							
time			No parameters collected -					
volume purged	(gal)			product in discharge line				
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2A-W-11-0506	0905	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	2B-W-4
Project No.	BN050-16423-710	Sampled By	C. Gero
Date	5-25-06	weather	50° overcast °F

WELL INFORMATION		
Depth to water	3.90	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
water is colorless, transparent
no sheen, no odor, no sediment

PURGE DATA								
start purge time	0820							
time		0830	0833	0836				
~~volume purged~~	~~(gal)~~ DTW (ft)	3.90	3.90	3.90				
purge rate mL	(~~L~~/min)	250	250	250				
pH	(Units)	5.28	5.27	5.27				
conductivity mS	(~~umhos/~~cm)	0.037	0.037	0.037				
temperature	(deg C)	7.93	7.88	7.85				
D.O.	(mg/L)	0.50	0.48	0.45				
ORP	(mv)	43.2	43.7	44.0				
turbidity	(NTU)	0.37	0.38	0.34				
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
2B-W-4-0506	0840	NWTPH-Dx	1L Gl. Amber	2	HCl
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-1
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/24/06	weather	Rainy, 50 °F

WELL INFORMATION		
Depth to water	6.00	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	Very trace	(ft)
Screen interval:		
well condition:		

COMMENTS
Duplicate sample collected
Tubing inlet set at ~6.75'

PURGE DATA								
start purge time	0833							
time			No parameters collected — product in discharge line					
volume purged	(gal)							
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
S-W-1-0506	0845	NWTPH-Dx	1L Gl. Amber	2	HCl
S-W-10-0506	0855	Total As & Pb	500 mL Poly	1	HNO3
(Dup)		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-2
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/23/06	weather	50 °F

WELL INFORMATION		
Depth to water	4.99	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	Hvy trace	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing inlet set at ~5.75'

PURGE DATA								
start purge time	1726							
time								
volume purged	(gal)							
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump + silicone / polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
S-W-2-0506	1740	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-3
Project No.	BN050-16423-710	Sampled By	DWC
Date	5/23/06	weather	Cloudy, 50 °F

WELL INFORMATION		
Depth to water	4.99	(ft)
Depth of well:		(ft)
Well diameter:		(in)
Feet of water:		(ft)
Product thickness:	0.89	(ft)
Screen interval:		
well condition:	ok	

COMMENTS
Tubing inlet set at ~5.75'

PURGE DATA								
start purge time	1645							
time			No parameters collected — product in discharge line					
volume purged	(gal)							
purge rate	(L/min)	0.30						
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
S-W-3-0506	1700	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	S-W-4
Project No.	BN050-16423-710	Sampled By	C. Geerp
Date	5-24-06	weather	~65° Partly Sunny °F

WELL INFORMATION		
Depth to water	4.75'	(ft)
Depth of well:		(ft)
Well diameter:	2"	(in)
Feet of water:		(ft)
Product thickness:		(ft)
Screen interval:		
well condition:		

COMMENTS
Duplicate sample collected
water is colorless, transparent, no odor, no sheen, no sediment

PURGE DATA								
start purge time	1255							
time		1305	1308	1311	1314	1317		
~~volume purged~~	~~(gal)~~ DTW (ft)	4.76	4.76	4.76	4.76	4.76		
purge rate mL	(L/min)	275	300	300	300	300		
pH	(Units)	5.75	5.74	5.75	5.74	5.74		
conductivity mS	(~~umhos~~/cm)	0.051	0.048	0.048	0.049	0.048		
temperature	(deg C)	11.27	11.13	11.01	11.08	11.04		
D.O.	(mg/L)	1.01	0.97	0.92	0.90	0.87		
ORP	(mv)	46.7	47.6	48.2	48.1	47.5		
turbidity	(NTU)	0.34	0.38	0.33	0.40	0.34		
purge and sample equip.		Peristaltic pump & silicone/polyethylene tubing						

SAMPLE INFORMATION					
sample number	time	analysis	container	# bottles	preservative
S-W-4-0506	1320	NWTPH-Dx	1L Gl. Amber	2 (x2)	HCl
~~S-W-40-0506~~		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
(Dup)	1345	PAH's (Method 8270)	1L Gl. Amber	2 (x2)	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~

GROUNDWATER SAMPLING LOG

Project name	BNSF-Skykomish	Well No.	Equipment Blank
Project No.	BN050-16423-710	Sampled By	DWK
Date	5/24/06	weather	Rainy, 50 °F

WELL INFORMATION	
Depth to water	(ft)
Depth of well:	(ft)
Well diameter:	(in)
Feet of water:	(ft)
Product thickness:	(ft)
Screen interval:	
well condition:	

COMMENTS

PURGE DATA								
start purge time								
time								
volume purged	(gal)							
purge rate	(L/min)							
pH	(Units)							
conductivity	(umhos/cm)							
temperature	(deg C)							
D.O.	(mg/L)							
ORP	(mv)							
turbidity	(NTU)							
purge and sample equip.		Peristaltic pump / silicone & PE tubing						

SAMPLE INFORMATION

sample number	time	analysis	container	# bottles	preservative
MW-500-0506	0935	NWTPH-Dx	1L Gl. Amber	2	HCl
		~~VOC's (Method 8260)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		PAH's (Method 8270)	1L Gl. Amber	2	None
		~~VPH (Volatile)~~	~~40 mL Gl. Vial~~	~~3~~	~~HCl~~
		~~EPH (extractable)~~	~~1L Gl. Amber~~	~~2~~	~~HCl~~
		Total As & Pb	500 mL Poly	1	HNO3
		Diss. As & Pb	500 mL Poly	1	HNO3

RETEC

FIELD ACTIVITY LOG

PROJECT BNSF - Skykomish
JOB NO. BN050-16423
DAY & DATE Mon. May 22nd, 2006

COMPLETED BY D. Kinney
APPROVED BY
SHEET 1 OF 1

FIELD ACTIVITY SUBJECT:
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: Groundwater Sampling

TIME	
0745	D. Kinney arrived at site after stopping for supplies
0800	Safety meeting, then continued to setup to
	Sample
0845	Left site
1200	Arrived back onsite, calibrated Horiba meter
1249	Started purging MW-11
1310	Sampled MW-11 (see gw sampling form)
1327	Started purging MW-28
1340	Sampled MW-28
1405	Want to meet John Robinson
1459	Started purging 2A-W-3
1520	Sampled 2A-W-3
1542	Started purging 2A-W-4 (extra sample for Lab QC)
1656	Started purging MW-6
1710	Sampled MW-6
1735	Put equipment away & dumped purge water
1815	Left site

VISITORS ON SITE:	CHANGES FROM PLANS OR IMPORTANT DECISIONS:
None	None
WEATHER CONDITIONS:	**IMPORTANT TELEPHONE CALLS:**
Cloudy to Rainy, 50-55°F	None

PERSONNEL ON SITE: Dean Kinney

RETEC

FIELD ACTIVITY LOG

PROJECT BNSF-Skykomish
JOB NO. BN050-16423
DAY & DATE Tues May 23rd, 2006

COMPLETED BY D. Kinney
APPROVED BY
SHEET 1 OF 1

FIELD ACTIVITY SUBJECT:
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: Groundwater Sampling

TIME	
1330	Arrived onsite after stopping for supplies
1340	Setup to Sample, calibrated Horiba meter
1355	Setting up on 1B-W-1, Mr Robinson called &
	want to meet him by school
1425	Returned to 1B-W-1
1435	Started purging 1B-W-1
1450	Sampled 1B-W-1
1515	Started purging 1A-W-2
1530	Sampled 1A-W-2
1612	Started purging MW-22
1625	Sampled MW-22
1645	Started purging 5-W-3
1700	Sampled 5-W-3
1726	Started purging 5-W-2
1740	Sampled 5-W-2
1800	Putting equipment away & dumped purge
	water
1845	Left site

VISITORS ON SITE: None

CHANGES FROM PLANS OR IMPORTANT DECISIONS: None

WEATHER CONDITIONS: P.Cloudy to Rainy, 50-55°F

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Dean Kinney

RETEC

FIELD ACTIVITY LOG

PROJECT BNSF - Skykomish
JOB NO. BN050-16423
DAY & DATE Weds May 24th, 2006

COMPLETED BY D. Kinney
APPROVED BY
SHEET 1 OF 2

FIELD ACTIVITY SUBJECT:
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: Groundwater Sampling

TIME	
0730	D. Kinney arrived onsite after getting supplies
	& re-iced all coolers
0755	setting up to sampled
0815	Calibrated Horiba meter
0833	started purging 5-W-1
0845	Sampled 5-W-1, took duplicate; labeled: 5-W-10-0506
0912	started purging MW-36
0925	Sampled MW-36
0955	Took equipment blank; labeled MW-500-0506
1005	went & got ice
1020	started purging MW-27
1045	Sampled MW-27; took duplicate; labeled: MW-270-0506
1131	started purging MW-39
1155	Sampled MW-39
1215	Lunch
1255	Returned & setup w/ Chris & Quinn afternoon's schedule
1331	Started purging MW-20
1345	Sampled MW-20
1411	Started purging MW-21
1425	Sampled MW-21
1445	Dumped purge water & went to help Quinn load
	coolers for lab

VISITORS ON SITE: None

CHANGES FROM PLANS OR IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Rainy to P. Cloudy, 50-55°F

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Dean Kinney

RETEC

FIELD ACTIVITY LOG

PROJECT BNSF-Skykomish
JOB NO. BN050-16423
DAY & DATE Thurs May 25th, 2006

COMPLETED BY D. Kinney
APPROVED BY
SHEET 1 OF 1

FIELD ACTIVITY SUBJECT:
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: Groundwater Sampling

TIME	
0750	Arrived onsite after getting supplies
0755	setup vehicle to sample & calibrated Horiba meter
0824	Started purging MW-12
0845	Sampled MW-12
0851	Started purging 2A-W-11
0905	Sampled 2A-W-11
0929	Started purging MW-17
0940	Sampled MW-17
0958	went to get a product sample for Mark Cooke
1120	Finished product recovery of 1L from R-1
1130	Dumped purge water & put equipment away
1145	left site

VISITORS ON SITE: None

CHANGES FROM PLANS OR IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Cloudy 50-55°F

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: Dean Kinney

RETEC

FIELD ACTIVITY LOG

PROJECT BNSF-Skykomish
JOB NO. BN050-16423
DAY & DATE Wed. May 24th, 2006

COMPLETED BY D. Kinney
APPROVED BY
SHEET 2 OF 2

FIELD ACTIVITY SUBJECT: Groundwater Sampling
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	
1550	Finished loading coolers & went to check houses
1634	Started purging MW-8
1645	Sampled MW-8
1705	Dumped purge water
1715	Went to empty out extra supplies from house &
	moved them to depot
1735	Left site

VISITORS ON SITE: None

CHANGES FROM PLANS OR IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Rainy, 50-55°F

IMPORTANT TELEPHONE CALLS: None

PERSONNEL ON SITE: None

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: Test America
Address: 11720 North Creek Pkwy
City/State/ZIP: Bothell, WA
Project Manager:
Phone: (425) 420-9200
Fax: (425) 420-9210

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method: Hand Delivered
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: Skykomish
BNSF Contact: Bruce Sheppard
BNSF Work Order No.: TT0100F02

CONSULTANT INFORMATION

Company: RETEC
Project Number: BN050-16423
Project Manager: Steve Howard
Address: 1011 SW Klickitat Way, Ste 207
Email: showard@retec.com
City/State/ZIP: Seattle, WA 98134
Phone: (206) 624-9349
Fax: (206) 624-2839

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other

DELIVERABLES

- [x] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables?
- [x] EDD Req, Format? RETEC-Equis

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	PAH's (Method 8270C)	Total As & Pb	Dissolved As & Pb					COMMENTS	LAB USE
1	MW-31 -0506	2	5/23/06	1745	QM	Y/N		W			X	X						
2	MW-18 -	8		1625		N			X	X							Extra sample for lab QC	
3	MW-10 -	2		1513		N			X									
4	MW-9 -	4		1350		N			X	X								
5	MW-9D -	4		1230		N			X	X								
6	MW-37 -	4		1238		N			X	X								
7	MW-19 -	2		1143		N			X									
8	MW-38 -	2		1059		N			X									
9	MW-32 -	2		1002		Y/N					X	X						
10	MW-26 -	4		0855		N			X	X								
11	IA-W-5 -	4		0905	CG	N			X	X								
12	IB-W-2 -	4		1010		N			X	X								
13	IC-W-1	4		1335		N			X	X								
14	IC-W-3	4		1135		N			X	X								
15	IC-W-4	6		1235		Y/N			X	X	X	X						

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	5/24/06 1706	[signature] Torley	5/24/06 17:0
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements:
p metals samples - dissolved samples were field filtered

Custody Seal No.:
BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
DUPLICATE - CONSULTANT
Rev 10/02/05

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: Test America
Address: 11720 North Creek Pkwy
City/State/ZIP: Bothell, WA
Project Manager:
Phone: (425) 420-9200
Fax: (425) 420-9210

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method: Hand Delivered
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: Skykomish
BNSF Contact: Bruce Shoppard
BNSF Work Order No.: TT0100E02

CONSULTANT INFORMATION

Company: RETEC
Address: 1011 SW Klickitat Way, Ste 207
City/State/ZIP: Seattle, WA 98134
Project Number: BN050-16423
Project Manager: Steve Howard
Email: showard@retec.com
Phone: (206) 624-9349
Fax: (206) 624-2832

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other _____

DELIVERABLES

- [x] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables? _____
- [ ] EDD Req, Format? RETEC-Equis

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	PAHs (Method 8270C)	Total As & Pb	Dissolved As & Pb					COMMENTS	LAB USE
1	2A-W-1-0506	4	5/23/06	1450	CG	N		W	X	X								
2	2A-W-100-	4		1515		N			X	X								
3	2A-W-7-	4		1615		N			X	X								
4	2A-W-6-	4		1710		N			X	X								
5	1B-W-1-	4		1450	DWK	N			X	X								
6	1A-W-2-	6		1530		Y/N			X	X	X	X						
7	MW-22-	4		1625		N			X	X								
8	S-W-3-	4		1700		N			X	X								
9	S-W-2-	6		1740		Y/N			X	X	X	X						
10	MW-A3-	4	5/24/06	0750	AM	Y/N			X		X	X						
11	2A-W-10-	2	5/24/06	1415	GM	N			X									
12	~~2A-W-9~~	~~2~~																
13	MW-40-	2		1230		N			X									
14	MW-16-	2		1150		N			X									
15	MW-3A-	4		1000		Y/N			X		X	X						

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	5/24/06 1706	[signature]	5/24/06 17:10
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements: Dissolved metals samples are field filtered

Custody Seal No.:
BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
DUPLICATE - CONSULTANT
Rev 10/02/05

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION			
Laboratory: Test America	Project Manager:		LAB WORK ORDER:
Address: 11720 North Creek Pkwy	Phone: (425) 420-9200		SHIPMENT INFORMATION
City/State/ZIP: Bothell, WA	Fax: (425) 420-9210		Shipment Method: Hand Delivered
			Tracking Number:

BNSF PROJECT INFORMATION		CONSULTANT INFORMATION	
BNSF Project Number:	Project State of Origin: WA	Company: RETEC	Project Number: BN050-16423
BNSF Project Name: Skykomish	Project City: Skykomish	Address: 1011 SW Klickitat Way, Ste 207	Project Manager: Steve Howard
BNSF Contact: Bruce Sheppard	BNSF Work Order No.: M0100F02	City/State/ZIP: Seattle, WA 98134	Email: showard@retec.com
			Phone: (206) 624-9349 Fax: (206) 624-2839

TURNAROUND TIME

- ☐ 1-day Rush
- ☐ 5- to 8-day Rush
- ☐ 2-day Rush
- ☒ Standard 10-Day
- ☐ 3-day Rush
- ☐ Other _____

DELIVERABLES

- ☒ BNSF Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliverables? _____
- ☒ EDD Req, Format? RETEC, Equis

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	PAH's (Method 8270C)	Total As & Pb	Dissolved As & Pb					COMMENTS	LAB USE
1	MW-29-0506	2	5/24/06	1053	QM	Y/N		W			X	X						
2	MW-290-	2		0900		Y/N					X	X						
3	MW-35-	4		0852		N			X	X								
4	ZA-W-9-	4		1325		N			X	X								
5	S-W-1-	4		0845	DWK	Y/N			X		X	X						
6	S-W-10-	4		0855		Y/N			X		X	X						
7	MW-36-	4		0925		N			X	X								
8	MW-500-	6		0955		Y/N			X	X	X	X						
9	MW-27-	4		1045		N			X	X								
10	MW-270-	4		1055		N			X	X								
11	MW-39-	4		1155		N			X	X								
12	MW-20-	4		1345		N			X	X								
13	MW-21-	6		1425		Y/N			X	X	X	X						
14	MW-1-	2		1115	CG	N			X									
15	MW-100-	2		1140	CG	N			X									

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	5/24/06 / 1706	[signature]	5/24/06 17:06
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements:
Dissolved metals samples are field filtered

Custody Seal No.:

BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/05

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: Test America
Address: 11720 North Creek Pkwy
City/State/ZIP: Bothell, WA
Project Manager:
Phone: (425) 420-9200
Fax: (425) 420-9210

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method: Hand Delivered
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: Skykomish
BNSF Contact: Bruce Sheppard
BNSF Work Order No.: TT0100F02

CONSULTANT INFORMATION

Company: RETEC
Address: 1011 SW Klickitat Way
City/State/ZIP: Seattle, WA 98134
Project Number: BN050-16423
Project Manager: Steve Howard
Email: showard@retec.com
Phone: (206) 624-9349
Fax: (206) 624-7839

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other _____

DELIVERABLES

- [x] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables? _____
- [x] EDD Req, Format? RETEC_Equis

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	PAHs (method 8270C)	Total Pb	Dissolved Pb					COMMENTS	LAB USE
1	2A-W-8-0506	2	5/24/06	1205	CG	N		W	X									
2	5-W-4-	4		1320		N			X	X								
3	5-W-40-	4		1345		N			X	X								
4	MW-13-	2		1440		N			X									
5	MW-14-	4		1515		N			X		X	X						
6	2A-W-5-	2		1020		N			X									
7	2A-W-7-	2		0935		N			X									
8	2A-W-70-	2		1000		N			X									
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	5/24/06 1706	[signature] Tonto	5/24/06 1706
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements: Dissolved metals Samples are field filtered

Custody Seal No.:

BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/05

BNSF RAILWAY

CHAIN OF CUSTODY

LABORATORY INFORMATION

Laboratory: Test America
Address: 11720 North Creek Pkwy
City/State/ZIP: Bothell, WA
Project Manager:
Phone: (425) 420-9200
Fax: (425 420-9210

LAB WORK ORDER:

SHIPMENT INFORMATION

Shipment Method: Hand Delivered
Tracking Number:

BNSF PROJECT INFORMATION

BNSF Project Number:
Project State of Origin: WA
Project City: Skykomish
BNSF Project Name: Skykomish
BNSF Contact: Bruce Sheppard
BNSF Work Order No.: 110100F02

CONSULTANT INFORMATION

Company: RETEC
Address: 1011 SW Klickitat Way, Ste 207
City/State/ZIP: Seattle, WA 98134
Project Number: BN050-16423
Project Manager: Steve Howard
Email: showard@retec.com
Phone: (206) 624-9349
Fax: (206) 624-7839

TURNAROUND TIME

- [ ] 1-day Rush
- [ ] 5- to 8-day Rush
- [ ] 2-day Rush
- [x] Standard 10-Day
- [ ] 3-day Rush
- [ ] Other _____

DELIVERABLES

- [x] BNSF Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliverables? _____
- [x] EDD Req, Format? RETEC-EQUIS

SAMPLE INFORMATION

	Sample identification	Containers	Sample Collection Date	Time	Sampler	Filtered Y/N	Type (Comp/Grab)	Matrix	NWTPH-Dx	PAHs (Method 8270C)	Total Pb	Dissolved Pb					COMMENTS	LAB USE
1	MW-8-0506	4	5/24/06	1645	DWK	N		W	X	X								
2	MW-4-	2	"	1630	CG	N			X									
3	MW-12-	4	5/25/06	0845	DWK	N			X	X								
4	2A-W-11-	4		0905		N			X	X								
5	MW-17-	4		0940		N			X	X								
6	2B-W-4-	4		0820	CG	Y/N			X		X	X						
7	MW-2-	4		0930		Y/N			X		X	X						
8	MW-3-	2		1025		N			X									
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	5/25/06/13:15	Kelly Gundle	5/25/06 13:15
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Received by Laboratory:	Date/Time:	Lab Remarks:	Lab: Custody Intact? ☐ Yes ☐ No

Comments and Special Analytical Requirements: Dissolved metals field filtered

Custody Seal No.:

BNSF COC No.:

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

DUPLICATE - CONSULTANT

Rev 10/02/05