APPENDIX B

TABLES

TABLE B-1
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL - 2008 LIMITED PHASE II INVESTIGATION
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample Location	Depth (ft bgs)	Semi-Volatile Organic Compounds *(milligrams per kilogram)*											
		Dibenzofuran	Diethyl phthalate	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene
SB-1	6-7	**5.21**	**4.97**	**7.9**	**7.54**	**39.1**	**9.98**	**34.1**	**24.8**	**8.45**	**8.62**	**4.72**	**3.86**
NVCP-RG - Residential Soil		**0.039**	**12,000**	**1,200**	**7,800**	**NE**	**5,900**	**5,700**	**590**	**0.62**	**62**	**0.62**	**6.2**
NVCP-RG - Industrial Soil		**2,000**	**100,000**	**61,000**	**41,000**	**NE**	**100,000**	**22,000**	**31,000**	**21**	**2,100**	**21**	**210**

Notes:
Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above a NVCP-RG.

ft bgs Feet below ground surface
NE Not established
NVCP-RG Nebraska Voluntary Cleanup Program Remediation Goal

TABLE B-2
RCRA METALS IN SOIL - 2008 LIMITED PHASE II INVESTIGATION
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample Location	Depth Interval (ft bgs)	RCRA Metals *(milligrams per kilogram)*							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
SB-1	1-3	**8.2**	138	ND	**34.2**	**4,870**	ND	ND	ND
SB-2	1-3	**3.2**	179	ND	12.5	**8.4**	ND	ND	ND
SB-3	1-3	**2.7**	136	ND	8.9	**17.2**	ND	ND	ND
SB-4	1-3	**8.9**	80.5	ND	8.9	**39**	ND	ND	ND
SB-5	2-3	**4.3**	256	ND	23.1	**13.9**	ND	ND	ND
SB-6	2-3	**4.3**	185	ND	19.7	**13.6**	ND	ND	ND
SB-7	2-3	**6.2**	240	ND	16.5	**12.7**	ND	ND	ND
SB-8	2-3	**20.6**	390	4.1	9.5	**560**	0.23	ND	ND
SB-9	2-3	**9.3**	103	1.7	8.9	**43.8**	ND	ND	ND
SB-10	2-3	ND	1,270	ND	77.4	**63.6**	ND	ND	ND
NVCP-RG - Residential Soil		**0.39[+]**	**1,400**	**9.3**	**34[A]**	**400**	**5.9**	**98**	**98**
NVCP-RG - Industrial Soil		**16[+]**	**66,000**	**450**	**580[A]**	**750**	**310**	**5,100**	**5,100**
USGS Average for Lancaster County		**9.04**	**NE**	**NE**	**NE**	**30.7**	**0.015**	**0.49**	**NE**

Notes:
Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above a NVCP-RG.

+	Cancer endpoint	NE	Not established
A	Total chromium	NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal
ft bgs	Feet below ground	RCRA	Resource Conservation and Recovery Act
ND	Not detected above laboratory detection limit	USGS	United States Geological Survey

TABLE B-4
XRF SCREENING AND LABORATORY RESULTS FOR LEAD
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Surface Soil Sample Location	*Sample Depth*	*XRF Value for Lead (mg/kg)*	*Laboratory Result for Lead (mg/kg)*
SB-1	0-2"	36	25.2
SB-2	0-2"	259	NS
SB-3	0-2"	223	NS
SB-4	0-2"	246	172
SB-5	0-2"	61	NS
SB-6	0-2"	55	41.1
SB-7	0-2"	240	NS
SB-8	0-2"	197	151
SB-9	0-2"	208	NS
SB-10	0-2"	321	NS
SB-11	0-2"	326	NS
SB-12	0-2"	142	NS
SB-13	0-2"	273	266
SB-14	0-2"	241	NS
SB-15	0-2"	206	NS
SB-16	0-2"	175	NS
SB-17	0-2"	151	NS
SB-18	0-2"	198	NS

Notes:

"	Inches
mg/kg	Milligrams per kilogram
NS	Not submitted for laboratory analysis

TABL_ 3-3
VOCS AND METALS IN GROUNDWATER - 2008 LIMITED PHASE II INVESTIGATION
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample Location	Depth (ft bgs)	VOCs (*micrograms per liter*)		Total Metals (*micrograms per liter*)						
		Carbon Disulfide	*cis*-1,2-DCE	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
SB-5	Unknown	1.1	5.2	**363**	**3,110**	ND	431	**277**	0.78	ND
SB-6	Unknown	ND	ND	ND	**3,510**	ND	87	**161**	ND	ND
SB-7	Unknown	ND	ND	ND	**4,270**	ND	**238**	**179**	ND	6
SB-8	Unknown	ND	ND	**1,460**	996	**166**	67	**1,220**	**7.55**	ND
SB-9	Unknown	ND	ND	**135**	1,580	**128**	78	**403**	0.55	ND
SB-10	Unknown	ND	ND	**185**	681	ND	85	**69**	0.74	**208**
NVCP-RG - Groundwater Exposure Pathway		**250**	**70**	**50[+]**	**2,000**	**5**	**100[A]**	**15**	**2**	**50**

Notes:
Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above a NVCP-RG.

+	Cancer endpoint
A	Total chromium
cis-1,2-DCE	cis-1,2-dichloroethene
ft bgs	Feet below ground surface
ND	Not detected above laboratory detection limit
NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal
VOCs	Volatile organic compounds

TABLE B-5
VOLATILE ORGANIC COMPOUNDS IN SOIL
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample ID	Sample Location	Depth Interval (ft bgs)	Volatile Organic Compounds (micrograms per kilogram)								
			Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	4-Methyl-2-pentaone	n-Propylbenzene	Vinyl Acetate	Xylenes, total
SB-1-10-12	SB-1	10-12	**30.6 J**	ND	ND	ND	ND	ND	ND	**50.1**	ND
SB-2-8-10	SB-2	8-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-3-16-18	SB-3	16-18	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-4-4-6	SB-4	4-6	**44.0 J**	ND	ND	ND	ND	ND	ND	ND	ND
SB-5-12-14	SB-5	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-6-4-6	SB-6	4-6	**30 J**	ND	ND	ND	ND	ND	ND	**34.4**	ND
SB-7-8-10	SB-7	8-10	**40.8 J**	ND	ND	ND	ND	ND	ND	**173**	ND
SB-8-4-6	SB-8	4-6	ND	**1.6 J**	ND	ND	ND	ND	ND	ND	ND
SB-9-8-10	SB-9	8-10	**29.4 J**	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-13-15	SB-10	13-15	ND	ND	ND	**2.2 J**	ND	**19.1 J**	ND	ND	ND
SB-11-2-4	SB-11	2-4	**44.0 J**	ND	ND	ND	ND	ND	ND	ND	ND
SB-12-6-8	SB-12	6-8	ND	ND	**367**	**635**	**193 J**	**1,060 J**	ND	ND	ND
SB-13-8-10	SB-13	8-10	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-14-18-20	SB-14	18-20	ND	ND	**3.4**	**12.4**	**4.8**	ND	**3.5**	ND	ND
SB-15-6-8	SB-15	6-8	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-16-10-12	SB-16	10-12	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-17-14-16	SB-17	14-16	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-18-14-16	SB-18	14-16	ND	ND	ND	ND	ND	ND	ND	ND	ND
NVCP-RG - Residential Soil			**1.8^{+07}**	**920**	**780,000**	**780,000**	**360,000**	**NE**	**780,000**	**290,000**	**180,000**
NVCP-RG - Industrial Soil			**1.0^{+08}**	**16,000**	**4.1^{+07}**	**4.1^{+07}**	**2.4^{+06}**	**NE**	**4.1^{+07}**	**1.6^{+06}**	**1.0^{+06}**

Notes:

Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).

ft bgs	Feet below ground surface
ID	Identification
J	Estimated value
ND	Not detected above laboratory detection limit
NE	Not established
NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal

TABLE B-6
SEMI-VOLATILE ORGANIC COMPOUNDS IN SOIL
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample ID	Sample Location	Depth Interval (ft bgs)	Semi-Volatile Organic Compounds *(micrograms per kilogram)*																			
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Carbazole	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
SB-1-10-12	SB-1	10-12	ND	ND	ND	**77.3 J**	**99.2 J**	**93.2 J**	**68.6 J**	ND	ND	**74.9 J**	ND	ND	**80.4 J**	ND	ND	ND	ND	ND	ND	**105 J**
SB-2-8-10	SB-2	8-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-3-16-18	SB-3	16-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-4-4-6	SB-4	4-6	**143 J**	**590**	**1,680**	**4,600**	**4,400**	**4,880**	**3,040**	**1,790**	**233 J**	**4,240**	**496**	**179 J**	**10,000**	**416**	**3,150**	**95.4 J**	**76 J**	**59.7 J**	**4,240**	**8,380**
SB-5-12-14	SB-5	12-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-6-4-6	SB-6	4-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-7-8-10	SB-7	8-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-8-4-6	SB-8	4-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-9-8-10	SB-9	8-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-13-15	SB-10	13-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-11-2-4	SB-11	2-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12-6-8	SB-12	6-8	**341 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**715 J**	ND	**496 J**	ND	ND	ND	ND
SB-13-8-10	SB-13	8-10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-14-18-20	SB-14	18-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**103 J**	ND	ND	ND	ND
SB-15-6-8	SB-15	6-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-16-10-12	SB-16	10-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-17-14-16	SB-17	14-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-18-14-16	SB-18	14-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NVCP-RG - Residential Soil			**1.2^{+06}**	**NE**	**5.9^{+06}**	**620**	**62**	**620**	**NE**	**6,200**	**24,000**	**62,000**	**62**	**39**	**570,000**	**780,000**	**620**	**NE**	**NE**	**36,000**	**NE**	**590,000**
NVCP-RG - Industrial Soil			**6.1^{+07}**	**NE**	**1.0^{+08}**	**21,000**	**2,100**	**21,000**	**NE**	**210,000**	**860,000**	**2.1^{+06}**	**2,100**	**2.0^{+06}**	**2.2^{+07}**	**4.1^{+07}**	**21,000**	**NE**	**NE**	**220,000**	**NE**	**3.1^{+07}**

Notes:
Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above above a respective NVCP-RG.

ft bgs	Feet below ground
ID	Identification
J	Estimated value
ND	Not detected above laboratory detection limit
NE	Not established
NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal

TABL 3-7
TOTAL EXTRACTABLE HYDROCARBONS IN SOIL
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample ID	Sample Location	Depth Interval (ft bgs)	Total Extractable Hydrocarbons (milligrams per kilogram)			
			Diesel	Kerosene	Mineral Spirits	Motor Oil
SB-1-10-12	SB-1	10-12	ND	ND	ND	**4.67 J**
SB-2-8-10	SB-2	8-10	ND	ND	ND	**15.1**
SB-3-16-18	SB-3	16-18	ND	ND	ND	ND
SB-4-4-6	SB-4	4-6	**198**	ND	ND	**413**
SB-5-12-14	SB-5	12-14	ND	ND	ND	ND
SB-6-4-6	SB-6	4-6	ND	ND	ND	ND
SB-7-8-10	SB-7	8-10	ND	ND	ND	**4.9 J**
SB-8-4-6	SB-8	4-6	ND	ND	ND	ND
SB-9-8-10	SB-9	8-10	ND	ND	ND	ND
SB-10-13-15	SB-10	13-15	**35.4**	ND	ND	ND
SB-11-2-4	SB-11	2-4	ND	ND	ND	ND
SB-12-6-8	SB-12	6-8	**1,170**	ND	ND	ND
SB-13-8-10	SB-13	8-10	ND	ND	ND	**5.51 J**
SB-14-18-20	SB-14	18-20	ND	ND	ND	ND
SB-15-6-8	SB-15	6-8	ND	ND	ND	ND
SB-16-10-12	SB-16	10-12	ND	ND	ND	ND
SB-17-14-16	SB-17	14-16	ND	ND	ND	ND
SB-18-14-16	SB-18	14-16	ND	ND	ND	ND
NDEQ LUST Standard - Soil ***Vapor Inhalation to Residential Exposure - Building Present - (Silts/Clays and <3 feet from contaminated media)***			**3,085**	**NE**	**NE**	**NE**

Notes:
Total extractable hydrocarbon results were compared to standards established in the NDEQ Risk-Based Corrective Action at Petroleum Release Sites Guidance Document (NDEQ 2009).

ft bgs	Feet below ground surface	NDEQ	Nebraska Department of Environmental Quality
ID	Identification	NE	Not established
J	Estimated value		
LUST	Leaking underground storage tank		
ND	Not detected above laboratory detection limit		

TABLE B-8
RCRA METALS IN SOIL
BNSF RR PROPERTY SITE, LINCOLN, NEBRASKA

Sample ID	Sample Location	Depth Interval (ft bgs)	RCRA Metals *(milligrams per kilogram)*							
			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
SB-1-0-2"	SB-1	0-2"	**3.8**	144	0.41	10.3	25.2	ND	ND	ND
SB-1-10-12	SB-1	10-12	**4.2**	**182**	ND	**13.5**	**10.7**	ND	ND	ND
SB-2-8-10	SB-2	8-10	**5.4**	**171**	ND	**9.0**	**601**	ND	ND	**7.4**
SB-3-16-18	SB-3	16-18	**1.6**	**191**	ND	**10.1**	**9.9**	ND	ND	ND
SB-4-0-2"	SB-4	0-2"	**12.2**	201	1.6	8.7	172	0.15	ND	ND
SB-4-4-6	SB-4	4-6	**10.8**	**335**	**2.0**	**12.2**	**358**	**0.35**	ND	ND
SB-5-12-14	SB-5	12-14	**6.2**	**126**	**0.26**	**10.1**	**7.9**	ND	ND	ND
SB-6-0-2"	SB-6	0-2"	**4.2**	270	0.57	8.7	41.1	ND	ND	ND
SB-6-4-6	SB-6	4-6	**3.3**	**155**	ND	**8.3**	**7.8**	ND	ND	ND
SB-7-8-10	SB-7	8-10	**3.7**	**188**	ND	**11.0**	**48.8**	ND	ND	ND
SB-8-0-2"	SB-8	0-2"	**37.6**	217	1.4	12.9	151	0.16	ND	ND
SB-8-4-6	SB-8	4-6	**2.9**	**169**	ND	**12.3**	**10.5**	ND	ND	ND
SB-9-8-10	SB-9	8-10	**2.9**	**181**	ND	**10.3**	**8.2**	ND	ND	ND
SB-10-13-15	SB-10	13-15	**2.4**	**135**	**0.61**	**11.7**	**10.1**	ND	ND	ND
SB-11-2-4	SB-11	2-4	**3.3**	**110**	ND	**9.9**	**6.5**	ND	ND	ND
SB-12-6-8	SB-12	6-8	**10**	**200**	ND	**13.5**	**9.7**	ND	ND	ND
SB-13-0-2"	SB-13	0-2"	**50.2**	454	1.7	14.3	266	0.48	ND	ND
SB-13-8-10	SB-13	8-10	**2.5**	**145**	ND	**8.4**	**7.9**	ND	ND	ND
SB-14-18-20	SB-14	18-20	**4.4**	**148**	ND	**14.1**	**9.8**	ND	ND	ND
SB-15-6-8	SB-15	6-8	**3.2**	**201**	ND	**9.1**	**7.3**	ND	ND	ND
SB-16-10-12	SB-16	10-12	**8.4**	**320**	ND	**10.9**	**12.1**	ND	ND	ND
SB-17-14-16	SB-17	14-16	**3.1**	**219**	ND	**10.2**	**8.2**	ND	ND	ND
SB-18-14-16	SB-18	14-16	**5.5**	**74.5**	ND	**10.1**	**9.0**	ND	ND	ND
NVCP-RG - Residential Soil			**0.39[+]**	**1,400**	**9.3**	**34[A]**	**400**	**5.9**	**98**	**98**
NVCP-RG - Industrial Soil			**16[+]**	**66,000**	**450**	**580[A]**	**750**	**310**	**5,100**	**5,100**
USGS Average for Lancaster County			**9.04**	**NE**	**NE**	**NE**	**30.7**	**0.015**	**0.49**	**NE**

Notes:
Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above a NVCP-RG.

+	Cancer endpoint	NE	Not established
A	Total chromium	RCRA	Resource Conservation and Recovery Act
ft bgs	Feet below ground surface	NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal
ID	Identification	USGS	United States Geological Survey
ND	Not detected above laboratory detection limit		

TABLE B-9
POLYCHLORINATED BIPHENYLS IN SOIL
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample ID	Polychlorinated Biphenyls *(micrograms per kilogram)*						
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
SS-1-0-2"	ND	ND	ND	ND	**852**	**604**	ND
SS-2-0-2"	ND	ND	ND	ND	30.1	76.3	115
SS-3-0-2"	ND	ND	ND	ND	56.8	125.0	112
SS-4-0-2"	ND	ND	ND	ND	34.5	39.0	15.3
NVCP-RG - Residential Soil	**980**	**220**	**220**	**220**	**220**	**220**	**220**
NVCP-RG - Industrial Soil	**37,000**	**7,400**	**7,400**	**7,400**	**7,400**	**7,400**	**7,400**

Notes:

Sample results were compared to Nebraska Voluntary Cleanup Progam Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above above a NVCP-RG.

"	Inches
ND	Not detected above laboratory detection limit
ID	Identification
NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal
SS	Surface soil

TABLE B-10
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample ID	Sample Location	Depth Interval (ft bgs)	Volatile Organic Compounds *(micrograms per liter)*															
			n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chloroform	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	cis-1,2-Dichloroethylene	Isopropylbenzene	p-Isopropyltoluene	Methyl Tert Butyl Ether	n-Propylbenzene	Tetrachloroethylene	1,1,1-Trichloroethane	Trichloroethylene
SB-1-GW	SB-1	16-20	ND	ND	ND	ND	ND	ND	ND	ND	**4.3**	ND	ND	ND	ND	ND	ND	0.51 J
SB-3-GW	SB-3	26-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-5-GW	SB-5	16-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-6-GW	SB-6	16-20	ND	ND	ND	ND	**0.25 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-9-GW	SB-9	16-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-GW	SB-10	16-20	ND	**0.24 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12-GW	SB-12	16-20	**3.2**	**2.8**	**0.45 J**	ND	ND	ND	ND	ND	ND	**3.4**	**0.49 J**	ND	**5.5**	ND	ND	ND
SB-13-GW	SB-13	24-28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-14-GW	SB-14	24-28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-GW	SB-15	26-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-16-GW	SB-16	28-32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-17-GW	SB-17	24-28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-18-GW	SB-18	36-40	ND	ND	ND	**0.6 J**	ND	**2.7**	**5.5**	**36.7**	ND	**0.23 J**	ND	**0.53 J**	ND	**0.46 J**	**0.56 J**	**0.96**
Trip Blank			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Field Blank			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NVCP-RG - *Groundwater Exposure Pathway*			**370**	**370**	**370**	**250**	**0.21**	**200**	**7.0**	**5.0**	**70**	**170**	**NE**	**3.9**	**370**	**5.0**	**200**	**5.0**

Notes:
Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above its NVCP-RG.

ft bgs	Feet below ground surface
ID	Identification
J	Estimated value
ND	Not detected above laboratory detection limit
NE	Not established
NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal

TABLE B-11
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample ID	Sample Location	Depth Interval (ft bgs)	Semi-Volatile Organic Compounds (micrograms per liter)																
			Acenaphthylene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzofuran	bis(2-Ethylhexyl)phthalate	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
SB-1-GW	SB-1	16-20	ND	ND	ND	ND	ND	ND	ND	ND	**5.0**	ND	ND	ND	ND	ND	ND	ND	ND
SB-3-GW	SB-3	26-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.1 J**	ND	ND
SB-5-GW	SB-5	16-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-6-GW	SB-6	16-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-9-GW	SB-9	16-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-10-GW	SB-10	16-20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12-GW	SB-12	16-20	**8.9 J**	ND	ND	ND	ND	ND	ND	**10.7 J**	ND	ND	**20.5 J**	ND	**195**	**155**	ND	**36**	ND
SB-13-GW	SB-13	24-28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-14-GW	SB-14	24-28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.8 J**	**1.5 J**	ND	ND	ND
SB-15-GW	SB-15	26-30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-16-GW	SB-16	28-32	ND	**5.0**	**4.8**	**6.0**	**3.1 J**	**2.5**	**4.8**	ND	ND	**9.4**	ND	**3.0 J**	ND	ND	ND	**3.2**	**7.3 J**
SB-17-GW	SB-17	24-28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trip Blank			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Field Blank			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NVCP-RG - *Groundwater Exposure Pathway*			**NE**	**0.025**	**0.20**	**0.016**	**NE**	**0.92**	**1.6**	**18**	**6.0**	**60**	**370**	**0.015**	**NE**	**NE**	**1.5**	**NE**	**140**

Notes:
Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above above its respective NVCP-RG.

ft bgs	Feet below ground surface
ID	Identification
J	Estimated value
ND	Not detected above laboratory detection limit
NE	Not established
NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal

TABLE B-12
TOTAL EXTRACTABLE HYDROCARBONS IN GROUNDWATER
BNSF PROPERTY, LINCOLN, NEBRASKA

Sample ID	Sample Location	Depth Interval (ft bgs)	Total Extractable Hydrocarbons (milligrams per liter)			
			Diesel	Kerosene	Mineral Spririts	Motor Oil
SB-1-GW	SB-1	16-20	ND	ND	ND	ND
SB-3-GW	SB-3	26-30	ND	ND	ND	ND
SB-5-GW	SB-5	16-20	ND	ND	ND	ND
SB-6-GW	SB-6	16-20	ND	ND	ND	ND
SB-9-GW	SB-9	16-20	ND	ND	ND	ND
SB-10-GW	SB-10	16-20	**3.09**	ND	ND	ND
SB-12-GW	SB-12	16-20	**32.9**	ND	ND	ND
SB-13-GW	SB-13	24-28	ND	ND	ND	ND
SB-14-GW	SB-14	24-28	ND	ND	ND	ND
SB-15-GW	SB-15	26-30	ND	ND	ND	ND
SB-16-GW	SB-16	28-32	ND	ND	ND	ND
SB-17-GW	SB-17	24-28	ND	ND	ND	ND
Trip Blank			ND	ND	ND	ND
Field Blank			ND	ND	ND	ND
NDEQ LUST Standard - Groundwater Ingestion - *Non-Drinking Water Well - 0 Feet From Source Area*			**100**	**NE**	**NE**	**66.66**
NDEQ LUST Standard - Groundwater - *Vapor Inhalation - Residential Exposure - Building Present - (Silts/Clays and <3 feet from contaminated media)*			**6,500**	**NE**	**NE**	**NE**

Notes:

Total extractable hydrocarbon results were compared to standards established in the NDEQ Risk-Based Corrective Action at Petroleum Release Sites Guidance Document (NDEQ 2009).

ft bgs	Feet below ground surface
ID	Identification
LUST	Leaking underground storage tank
ND	Not detected above laboratory detection limit
NDEQ	Nebraska Department of Environmental Quality
NE	Not established

TABLE B-13
RCRA METALS IN GROUNDWATER
BNSF PROPERTY SITE, LINCOLN, NEBRASKA

Sample ID	Sample Location	Depth Interval (ft bgs)	RCRA Metals *(micrograms per liter)*															
			Arsenic		Barium		Cadmium		Chromium		Lead		Mercury		Selenium		Silver	
			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
SB-1-GW	SB-1	16-20	**22.8**	ND	**574**	ND	ND	ND	**29.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-3-GW	SB-3	26-30	**70.0**	ND	**731**	ND	ND	ND	**60.7**	ND	**48.3**	ND	ND	ND	ND	ND	ND	ND
SB-5-GW	SB-5	16-20	**126**	**21.6**	**1,550**	ND	ND	ND	**135**	ND	**132**	ND	ND	ND	**73.1**	**12.7**	ND	ND
SB-6-GW	SB-6	16-20	**74.7**	**19.3**	**1,130**	ND	ND	ND	**38.9**	ND	**38.2**	ND	ND	ND	**26.2**	**25.1**	ND	ND
SB-9-GW	SB-9	16-20	ND	ND	**368**	ND	ND	ND	**12.6**	ND	**14.8**	ND	ND	ND	ND	ND	ND	ND
SB-10-GW	SB-10	16-20	**390**	**425**	**398**	**330**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-12-GW	SB-12	16-20	**383**	**376**	**665**	ND	ND	ND	**41.2**	ND	**73.9**	ND	ND	ND	ND	ND	ND	ND
SB-13-GW	SB-13	24-28	**54.2**	ND	**3,490**	ND	**5.8**	ND	**134.0**	ND	**155**	ND	ND	ND	**31.9**	ND	ND	ND
SB-14-GW	SB-14	24-28	**42.4**	**45.0**	**279**	**264**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-15-GW	SB-15	26-30	**23.6**	ND	**502**	ND	ND	ND	**101**	ND	**73.3**	ND	ND	ND	ND	ND	ND	ND
SB-16-GW	SB-16	28-32	**106**	ND	**1,790**	**207**	ND	ND	**396**	ND	**463**	ND	**1.3**	ND	ND	ND	ND	ND
SB-17-GW	SB-17	24-28	ND	ND	ND	ND	ND	ND	**19.0**	ND	**5.6**	ND	ND	ND	ND	ND	ND	ND
Equipment Rinsate Blank			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Field Blank			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NVCP-RG - *Groundwater Exposure Pathway*			**50[+]**		**2,000**		**5.0**		**100[A]**		**15**		**2.0**		**50**		**100**	

Notes:
Sample results were compared to Nebraska Voluntary Cleanup Program Remediation Goals (NDEQ 2006).
Shaded result indicates analyte was detected above above its respective NVCP-RG.

+	Cancer endpoint
A	Total chromium
ft bgs	Feet below ground surface
ID	Identification
ND	Not detected above laboratory detection limit
NVCP-RG	Nebraska Voluntary Cleanup Program Remediation Goal
RCRA	Resource Conservation and Recovery Act